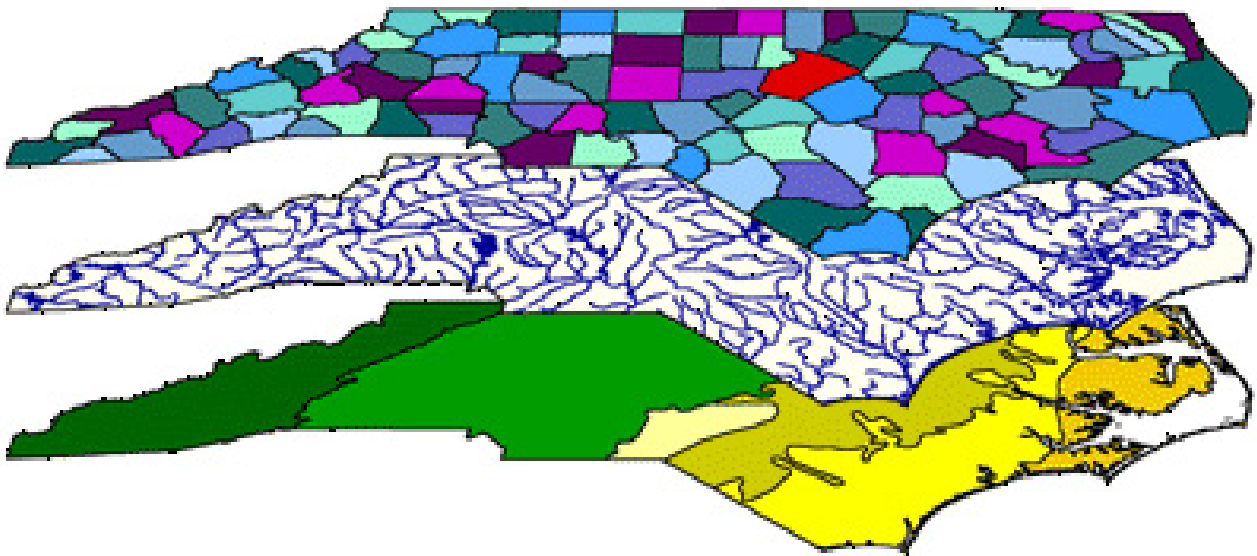




A GAP ANALYSIS OF NORTH CAROLINA

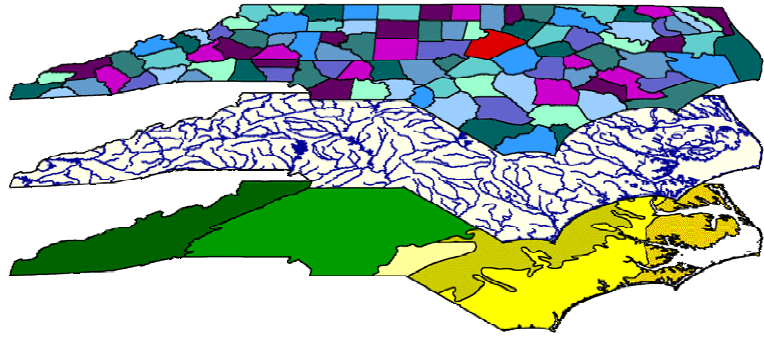
April 2006 Final Report



A GEOGRAPHIC APPROACH TO PLANNING FOR BIOLOGICAL DIVERSITY

U.S. Department of the Interior
U.S. Geological Survey

North Carolina Gap Analysis Project



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Biological Resources Division
Gap Analysis Program

THE NORTH CAROLINA GAP ANALYSIS PROJECT

FINAL REPORT

April 2006

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Research Performed Under:
Cooperative Agreement No. 1434-HQ-97-RU-01568
Research Work Order No. 56

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North Carolina Museum of Natural Science
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TABLE OF CONTENTS

EXECUTIVE SUMMARY	ix
ACKNOWLEDGMENTS.....	xiii
CHAPTER 1 - INTRODUCTION	1
How This Report is Organized.....	1
The Gap Analysis Program Mission.....	1
The Gap Analysis Concept.....	2
General Limitations.....	4
The Study Area - A Brief Description of North Carolina	4
CHAPTER 2 - LAND COVER CLASSIFICATION AND MAPPING	7
Introduction	7
Land Cover Classification	8
Methods.....	9
Results	21
Accuracy Assessment.....	24
Limitations and Discussion	31
CHAPTER 3 - PREDICTED ANIMAL SPECIES DISTRIBUTIONS AND SPECIES RICHNESS.....	32
Introduction	32
Mapping Standards.....	33
Methods.....	33
Results	39
Accuracy Assessment.....	53
Limitations and Discussion	55
CHAPTER 4 - LAND STEWARDSHIP	56
Introduction	56
Mapping Standards.....	57
Methods.....	58
Results	62
Limitations and Discussion	70
CHAPTER 5 - ANALYSIS BASED ON STEWARDSHIP AND MANAGEMENT STATUS	72
Introduction	72
Methods.....	73
Results	73
Land Cover Analysis.....	74
Predicted Animal Species Distributions Analysis.....	89
CHAPTER 6 - CONCLUSIONS AND MANAGEMENT IMPLICATIONS.....	92
CHAPTER 7 - PRODUCT USE AND AVAILABILITY	93
How to Obtain the Products	93
Disclaimer	93
Metadata.....	94
Appropriate and Inappropriate Use of These Data.....	94
LITERATURE CITED.....	97
GLOSSARY.....	103
GLOSSARY OF ACRONYMS	108

LIST OF FIGURES

Figure 2.1. Detailed View of an Aerial Video Transect.....	15
Figure 2.2. Flow Diagram of the Decision Rules Process Used in Mapping Land Cover for the Coastal Plain of North Carolina.....	17
Figure 2.3. Percentages of general land cover types in North Carolina.....	24
Figure 2.4. Measured errors in the easting and northing for 50 assessment points.....	28
Figure 3.1. Known range extension of EMAP hexagons using 14 digit HUICS.....	38
Figure 3.2. Selection of contiguous habitat patches.....	38
Figure 3.3. Detail of selected contiguous habitat patches.....	39
Figure 4.1. Flow diagram used for assigning Land Management Status Codes.....	60
Figure 4.2. Percentage of the Managed Lands by Management Entity.....	62
Figure 4.3. Status 1, 2, and 3 managed areas in the three Ecological Provinces of North Carolina.....	69
Figure 4.4. Size distribution of contiguous managed areas in North Carolina.....	70

LIST OF TABLES

Table 2.1. Landsat TM Images Available for Land Cover Mapping.....	11
Table 2.2. Ancillary Datasets and their application to Land Cover Mapping.....	11
Table 2.3. Sources of the Ground Truth and Reference Data Used in Land Cover Mapping.....	14
Table 2.4. Confusion Matrix for the Generalized Land Cover Class Assessment.....	29
Table 2.5. Estimated Thematic Accuracy for the Generalized Land Cover Classes.....	30
Table 3.1. GIS data used in the animal species modeling process.....	36
Table 3.2. Species with additional modeling parameters that were not implemented by AML scripting... 37	37
Table 3.3. List of occupied land cover map units for the prothonotary warbler (<i>Protonotaria citrea</i>).....	41
Table 3.4. Specific sites from which species lists were used to assess the accuracy of the vertebrate distribution maps.....	54
Table 3.5. Accuracy assessments for the vertebrate species models by taxa.....	55
Table 4.1. Data sources for the land ownership, boundary, and management attributes used for the North Carolina Land Management Stewardship database.....	59
Table 4.2. Area and percentages of the Status 1, 2, and 3 lands reported for each managing agency.....	66
Table 5.1. Representation Level of Natural Land Cover Classes on Status 1 and 2 Lands.....	75
Table 5.2. Summary of species at different thresholds of biodiversity management.....	89
Table 5.3. Species with state or federal status that have 1-<10% of their predicted distribution in status 1 and 2 lands.....	90

LIST OF MAPS

Map 1.1. An elevation map of North Carolina and the three major physiographic regions.....	5
Map 2.1. The thirteen mapping zones resulting from the intersection of the ecological regions with the Landsat TM imagery.....	10
Map 2.2. Aerial videography flight lines for each of the ecological regions of North Carolina. Data gathered included both wide angle and zoomed images.....	14
Map 2.3. Land cover map of North Carolina.....	23
Map 2.4. Spatial distribution of the 500 accuracy assessment points used to assess the generalized (15 classes) land cover map.....	26
Map 2.5. Spatial distribution of the assessment points used to assess the detailed North Carolina GAP land cover map.....	27
Map 3.1. Hexagon distribution map for the prothonotary warbler (<i>Protonotaria citrea</i>). Included here as an example of the data available in the species reports included in Appendix T.....	40
Map 3.2. Predicted distribution map for the prothonotary warbler (<i>Protonotaria citrea</i>). Included here as an example of the data available in the species reports included in Appendix T.....	40
Map 3.3. Amphibian species richness based on the number of species predicted within each EMAP hexagon.....	43
Map 3.4. Avian species richness based on the number of species predicted within each EMAP hexagon.....	44
Map 3.5. Mammalian species richness based on the number of species predicted within each EMAP hexagon.....	45
Map 3.6. Reptilian species richness based on the number of species predicted within each EMAP hexagon.....	46
Map 3.7. Total species richness based on the number of species predicted within each EMAP hexagon.....	47
Map 3.8. Amphibian species richness based on the number of species predicted within each 30 meter grid cell.....	48
Map 3.9. Avian species richness based on the number of species predicted within each 30 meter grid cell.....	49
Map 3.10. Mammalian species richness based on the number of species predicted within each 30 meter grid cell.....	50
Map 3.11. Reptilian species richness based on the number of species predicted within each 30 meter grid cell.....	51
Map 3.12. Total species richness based on the number of species predicted within each 30 meter grid cell.....	52
Map 3.13. Locations of the 11 sites used for the accuracy assessment of the vertebrate species predicted distributions.....	54
Map 4.1. Land management in North Carolina.....	63
Map 4.2. Gap status of North Carolina managed lands.....	64

LIST OF APPENDICES

- Appendix A. North Carolina GAP land cover map units.
- Appendix B. NatureServe alliances present in North Carolina and the crosswalked equivalent NC-GAP land cover map unit. Alliances are presented within the hierarchy ecological groups.
- Appendix C. Dichotomous Key to the North Carolina Gap Map Units.
- Appendix D. 1992 National Land Cover Classification System.
- Appendix E. Recoding scheme for National Wetland Inventory classification.
- Appendix F. Generalized Flow Diagram for Calculating Topographic Relative Moisture Index based on Halpin (1999).
- Appendix G. North Carolina Map Classes, Areal Extents, and Percentages.
- Appendix H. Spatial accuracy assessment points with measured offsets.
- Appendix I. Estimated Thematic Accuracy for the Detailed Land Cover Classes.
- Appendix J. NC-GAP land cover error matrix for assessment of detailed land cover map units.
- Appendix K. List of Expert Reviewers.
- Appendix L. Species list with taxonomic nomenclature.
- Appendix M. Specifics of the process of delineating the vertebrate species ranges.
- Appendix N. Arc Macro Language scripts used in vertebrate distribution modeling.
- Appendix O. Relational table for spatial constraint variables.
- Appendix P. Relational tables for Known Range.
- Appendix Q. Relational tables for use of land cover map units by species.
- Appendix R. Relational tables for exclusion of land cover map units by species.
- Appendix S. Vertebrate Species Reports.
- Appendix T. Summary of the species specific assessments based on the comparisons of site lists to the NC-GAP models.
- Appendix U. Comparisons between the NC-GAP predicted distribution models and the species lists for eleven North Carolina sites.
- Appendix V. Dichotomous key used to assist in stewardship status level assignments.
- Appendix W. Questionnaire sent to land managers to obtain information used to assign natural resource protection status levels.
- Appendix X. Management plan citation and contact list for Status 1 and 2 Managed Areas.
- Appendix Y. Land Management Status Records for Polygons Included in the Spatial Database.
- Appendix Z. List of Land Ownership and Management Codes Used in the North Carolina Land Management Status Database.
- Appendix AA. Areal extent and percentage of the NC-GAP land cover types by land manager and GAP status.
- Appendix BB. Gap analysis results for each of the 414 species modeled for the NC-GAP.
- Appendix CC. Vertebrate Species with < 1 Percent of Predicted Distribution on GAP Status Lands 1 and 2.
- Appendix DD. Vertebrate Species with 1 - 10 Percent of Predicted Distribution on GAP Status Lands 1 and 2.
- Appendix EE. Vertebrate Species with 10 - 20 Percent of Predicted Distribution on GAP Status Lands 1 and 2.
- Appendix FF. Vertebrate Species with 20 - 50 Percent of Predicted Distribution on GAP Status Lands 1 and 2.
- Appendix GG. Vertebrate Species with > 50 Percent of Predicted Distribution on GAP Status Lands 1 and 2.
- Appendix HH. List of Example GAP Applications.

EXECUTIVE SUMMARY

The Gap Analysis Program is a national program with the mission of developing key datasets needed to assess biological diversity across the nation. The North Carolina Gap Analysis Project (NC-GAP) was a state affiliate based at the North Carolina Cooperative Fish and Wildlife Research Unit and charged with developing those data for the state. The goal of the NC-GAP project was to assess the distribution and conservation status of biodiversity in the state under existing land ownership and management regimes. The specific objectives were to: (1) map the land cover of North Carolina, (2) map the predicted distributions of terrestrial vertebrates that use habitat in the state during the breeding season, (3) map the network of conservation lands in the state (land management stewardship), (4) assess the conservation status of both the terrestrial vertebrates and the natural vegetative communities of the state, and finally (5) provide that information to natural resource agencies so they can use it in their conservation planning efforts.

Land Cover

A map of North Carolina's land cover was developed using Landsat TM satellite imagery acquired in 1991 and 1992. Processing was completed on each of 13 mapping zones, which were created by intersecting the primary ecoregional provinces (Coastal Plain, Piedmont, Sandhills, and Blue Ridge) with 12 satellite images covering the state. Reference data for the land cover mapping effort were acquired through aerial survey, field reconnaissance and from existing datasets. These data were used in the development of decision rules for the detailed land cover mapping. General land cover types, including water, row crops, pasture, urban, and barren types, were integrated from the National Land Cover Dataset (USGS 1997). The NC-GAP Land Cover classification includes 69 map classes, 59 of them representing natural and semi-natural land cover classes dominated by vegetation. Natural vegetation map units were based on a classification system that was intermediate between the National Vegetation Classification System (NVCS; Grossman et al. 1998) and the recently developed NatureServe Ecological Systems Classification (Comer et al. 2003).

The statewide land cover map showed that upland forests, including deciduous, mixed, and evergreen types represent just over half of the state's land cover (51 %). A quarter (25 %) of the land cover is cultivated herbaceous, the majority of which is row crop. Ten percent of the state was classified as wetland, the vast majority of that being the wetland forests of the Coastal Plain region. Statewide, the two most extensive natural/semi-natural cover classes are Piedmont Dry-Mesic Oak Hardwood Forest (7 %) and Coniferous Cultivated Plantations (7 %), which cover 981,400 and 966,200 hectares respectively. The most extensive wetland forest type was Pocosin Woodland and Shrubland, which represented 3 % of the state.

Both spatial and thematic accuracy assessments were completed for the statewide land cover dataset. The 95% confidence interval for the total spatial error in the land cover

map is 20.6 ± 5 meters (Easting 38 ± 5 meters, Northing 27 ± 5 meters). Thematic accuracy was tested at two levels of detail. A general classification was based on cross-walking the detailed cover classes into 15 general land cover categories and the second assessment was done for the detailed land cover classes. Overall accuracy for the generalized land cover was 87.7 %, with a 95% confidence interval of 84.9 to 90.6 %. The estimated per class accuracies in the detailed cover classes were highly variable, and the overall accuracy for the full 69 class land cover map is 58.5 %, with a 95% confidence interval of 57.1 to 59.9 %. The final accuracy assessment was based on the 10,620 interpreted points, and calculations were based on marginal frequencies (Card 1982), which takes into account both the number of samples in a class and the area of the cover class in the final map. The estimated Kappa statistic for the detailed land cover is 0.73.

Terrestrial Vertebrate Distributions

Potential distribution maps were developed for 414 terrestrial vertebrate species comprising 193 species of breeding birds, 75 species of mammals, 76 species of amphibians, and 70 species of reptiles. Included species were those that were established during the breeding season within the state. Range limits of each species were delineated on a grid of 258 hexagons encompassing the state (White et al. 1992). Three information sources – observation date, published range maps, and expert review - were utilized to generate range limits. Point data used to create range limits included 748 point localities from the NC Museum of Natural Sciences (NCMNS), 2,028 points from the NC Natural Heritage Program (special concern species only), as well as 27,210 point localities that were newly mapped for this project. The newly mapped points include 25,001 records from the NC Breeding Bird Atlas dataset along with NCMNS specimen records for birds (193 points), mammals (627 points), and herptiles (1389 points). Twenty five biologists from state, federal, and non-profit conservation organizations were engaged as reviewers of draft range maps. Habitat relationship information was compiled from published literature into a relational database, where spatial models of predicted distribution were created based on the GIS datasets available.

The accuracy of the vertebrate potential distribution models was assessed by comparison of available species lists for National Wildlife Refuges, National Seashores, and National Parks, as well as North Carolina State Parks and Preserves. The percent agreement averaged 78.8 %, 64.4 %, and 72.8 % for birds, mammals, and herptiles, respectively. While species lists were readily available for birds throughout the state (11), very few compiled lists exist for mammals and herptiles (3). Error rates were low for omission (5.6 %, 3.1 %, and 2.1 %), whereas, commission rates were significantly higher (15.6%, 32.4 %, and 25.1 %).

Land Stewardship

In order to assess the protection of vegetation types and the vertebrate species, NC-GAP compiled the existing management datasets from the Natural Heritage Program, the Wildlife Resources Commission, and the Center for Geographic Information and Analysis. Each stewardship polygon was assigned a GAP Status code, which represents

the permanence and intent of the management based on information in management plans or agency mandates for specific land units. Status 1 and 2 represent permanently protected lands that are managed for biological diversity, with Status 1 representing the highest level of protection. Status 3 lands are those lands under a management plan that prevents conversion to non-natural cover types but allows either intensive local or extensive resource extraction, and Status 4 represent those lands that are not managed for biodiversity or are not under a management plan.

The analysis of land stewardship showed that a relatively small proportion of the state is under any sort of protection for biodiversity. In fact, approximately 10 % (1,297,516 hectares) of the state was under management, with the majority of that (7.6 % or 969,940 hectares) being federally managed. State management represented 2.2 % of the state (277,064 hectares). A total of 37,413 hectares (0.3 %) of Non-Governmental Organization (NGO) lands had been mapped through a variety of mapping projects and were included in this dataset, but we know that this is an underestimate for the state, and that those lands will become increasingly important for natural resource management over time. The pattern of land ownership is highly skewed across the state, with the vast majority of public lands being in the outer Coastal Plain and mid to high elevation mountains.

Lands with high protection for biodiversity (GAP Status 1 or 2) only comprised slightly over 4 % (213,841 ha) of North Carolina's land. Federal management, primarily by the National Park Service, U.S. Forest Service, and U.S. Fish and Wildlife Service, accounted for the majority of the status 1 and 2 lands. Status 3 lands were managed predominantly by the U.S. Forest Service (459,081 ha) and the Department of Defense or Department of Energy (153,363 ha).

Gap Analysis

Six of the 59 natural cover types in the state have less than 1 % of their distribution on Status 1 and 2 lands. These types include four cover types of the Coastal Plain: the Xeric Longleaf Pine Woodland, Coastal Plain Xeric Oak – Pine Forests, Coastal Plain Mesic Hardwood Forest, and the Coastal Plain Dry to Dry Mesic Oak Forests. The other two cover types are Piedmont types. These include the Piedmont Mixed Successional Forests and the Oak Bottomland Forests and Swamps. Another 25 natural cover types in the state have less than 10 % of their mapped distribution in Status 1 and 2 lands. In the west the high elevation areas with greater than 50 % of their distribution in Status 1 and 2 lands represent the Spruce-Fir forests. Despite the high percentage of their distribution on conservation lands (69.9 % of the extant distribution) these forests and the fauna dependent on them are declining due to a complex interaction between biotic and abiotic factors, including acid deposition, balsam wooly adelgid, drought, and other factors (Tingley et al. 2002, Smith and Nicholas 1998, Johnson 1992, Aber et al. 1989). It is important to note that the Gap Analysis for existing vegetation does not account for the previous losses in acreage, thus even cover types with greater than 20 % of their extant acreage in the conservation network can represent types that have undergone a severe decline in representation (Noss et al. 1995, Frost 1993).

Of the 414 species modeled, 45 have less than 1 % of their predicted distribution on lands with long-term protection for biodiversity (GAP status 1 and 2). Thirty of these are birds, six are mammals, and nine are reptiles. In addition, NatureServe and the North Carolina Natural Heritage Program rank 14 of the 45 species as either critically imperiled (SRank 1), imperiled (SRank 2), or vulnerable (SRank 3) in the state.

Overall species diversity is concentrated along the outer Coastal Plain, with other high-ranking areas including the Sandhills and the Asheville basin. Diversity in the Sandhills and Coastal Plain seem to be tied to wetland habitats; whereas, the Asheville basin probably is highlighted due to the range in elevation, topography, and land use of the area. For avian species, the Blue Ridge escarpment and the Outer Coastal Plain stand out as areas of high diversity. High elevations throughout the southern Blue Ridge represent hotspots for mammalian species diversity. Amphibian species diversity is very closely tied to the Coastal Plain riverine and wetland systems. This pattern highlights the role of wetland habitat in the outer Coastal Plain and Sandhills. For reptiles, the Sandhills region and xeric pine woodlands in the Coastal Plain stand out as the hotspots.

Outeach

In order to get the information for the North Carolina Gap Project into natural resource managers' hands, we worked in cooperation with the U.S. Fish and Wildlife Service personnel on the Roanoke-Tar-Neuse-Cape Fear Ecosystem Team to build a decision support tool. The GEDE Tool allows non-GIS-savvy users to view data quickly and conduct advanced queries. While the GEDE Tool has been designed to be accessible to a broad audience, it is based on a full implementation of ArcView with Spatial Analyst, and thereby, provides an advanced GIS platform for those who wish to expand the complexity of their queries and analyses. The central scripting used in the tool allows us to import our statewide data as well as other state Gap products into the tool for use by a broad audience. In addition to the tool, an interactive website, including download options for county, watershed, and state datasets, should facilitate the distribution to agencies and managers.

Partners in data development for the project included the NatureServe Southeastern Office, North Carolina Natural Heritage Program, North Carolina Wildlife Resources Commission, North Carolina Museum of Natural Science, North Carolina Center for Geographic Information and Analysis, North Carolina Division of Coastal Management, and the Center for Earth Observation. Agencies actively involved in the dissemination and use of the data specific analyses included the United States Fish and Wildlife Service (Refuges), United States Fish and Wildlife Service (Ecological Services), North Carolina Natural Heritage Program, North Carolina Wildlife Resources Commission, North Carolina, and the North Carolina Division of Forestry.

ACKNOWLEDGMENTS

Thanks to Amos Eno and the staff of the National Fish and Wildlife Foundation, who funded the early development of the GAP concept and to the originators, including J. Michael Scott, Blair Csuti, and Jack Estes and the pioneering scientists who forged the way. Thanks to John Mosesso and Doyle Frederick of the U.S. Geological Survey Biological Resource Division (BRD) Office of Inventory and Monitoring for their support of the national Gap Analysis Program, especially during its transition from the U.S. Fish and Wildlife Service to the National Biological Service and then to the U.S. Geological Survey BRD. Thanks to Reid Goforth and the staff at the USGS BRD Cooperative Research Units for administering Gap's research and development phase from headquarters. Without those mentioned above, there could not have been a Gap Analysis Program. Thanks also to the staffs of the National Gap Analysis Program, Center for Biological Informatics and Biological Resources Division headquarters.

We acknowledge contributions to this report by Chris Cogan, Patrick Crist, Blair Csuti, Tom Edwards, Michael Jennings, and J. Michael Scott as well as the previous GAP projects.

Thanks to the many cooperating agencies that made this project possible: the North Carolina Natural Heritage Program for sharing data, ideas, and personnel time and for developing the Conservation Assessment of the Southeast Coastal Plain of North Carolina; The U.S. Fish and Wildlife Service Ecological Services, Refuges, and Regional Office for contributing to the development of the Roanoke, Tar, Neuse, and Cape Fear Gap Ecosystem Data Explorer Tool, as well as supporting NC-GAP data development; NatureServe Ecology South for countless hours of field work, data, presentations, and consultations on the implementation of the National Vegetation Classification System and modifications for mapping vegetation in the Southeast; North Carolina Wildlife Resources Commission for sharing vertebrate and land management data as well as for developing agency specific applications of the NC-GAP data for use in the Comprehensive Wildlife Conservation Strategy; North Carolina Museum of Natural Sciences for sharing data and contributing to the Conservation Assessment of the Southeast Coastal Plain of North Carolina; the North Carolina Center for Geographic Information and Analysis for data and consultation on the Land Management Status database; Environmental Protection Agency for financial support and leadership in the early days of the Multi-Resolution Landscape Characterization Consortium.

We are especially appreciative of Fish and Wildlife Service personnel JohnAnn Shearer, Bob Noffsinger, Sam Hamilton, John Hefner, Doug Newcomb, Garland Pardue and the Roanoke-Tar-Neuse-Cape Fear Ecosystem Team for their assistance in the development of the Gap Ecosystem Data Explorer Tool. At the North Carolina Natural Heritage Program, we would like to acknowledge Linda Pearsall, Mike Schafale, John Finnegan, Harry LeGrand, and Stephen Hall. We acknowledge the excellent work and commitment shown by Milo Pyne and Alan Weakley of NatureServe in helping develop an

ecologically meaningful map for the State of North Carolina. Special thanks go to Drs. Thomas Wentworth, Robert Peet and Chris Ulrey for data sharing. Thank you as well to the leaders of the North Carolina Vegetation Survey and innumerable volunteers for the development of that important dataset. Thanks to Dr. Heather Cheshire, Dr. Hugh Devine, Scott Ross, and Dr. Siamak Khorram for logistical support in the early stages of NC-GAP.

Our thanks go to North Carolina Cooperative Fish and Wildlife Research Unit personnel for their assistance and guidance throughout the project. We would especially like to thank Wendy Moore for her organization, guidance, and patience throughout the project. The NC-GAP project would not have been possible without the support of the North Carolina State University Department of Zoology, especially, Dr. Thurman Grove, Susan Marschalk, Jan Fites, Dollie Moore, and Chris Smith.

We appreciate the hard work and commitment of all of the students and staff who worked with us directly on the NC-GAP project, including Jen Moore, Jane Almon, Rob Coxe, Mathius Russ, Jeanne LaPlaca, Tim Milling, Kirsten Hazler, George Eason, Terri King, Matt Rubino, Clay Ware Dobbs, Sally Landaal, Casson Stallings, and Ray Bode. Thanks to our regional counterparts throughout the Southeast, including Jeanette Jones, Susan Marden, Dr. Leonard Pearlstine, Dr. Elizabeth Kramer, Matt Elliott, Ann Rasberry, Dr. Elise Schmidt, Cindy Aulbach-Smith, Yvette Alger, Dr. Francois Smith, Dr. Craig Allen, Scott Klopfer, Jeff Waldon, Dave Morton, Stacy McNulty, Mark Drew, Geoff Ghitter, Dr. Thomas Kind, Dr. Terry Derting, Matt Cole, and Rich Minnis.

CHAPTER 1 - INTRODUCTION

How This Report is Organized

This report is a summation of a scientific project. While we endeavor to make it understandable for as general an audience as practicable, it reflects the complexity of the project it describes. A glossary of terms is provided to aid the reader in its understanding, and for those seeking a detailed understanding of the subjects, the cited literature should be helpful. The organization of this report follows the general chronology of project development, beginning with the production of the individual data layers and concluding with analysis of the data. It diverges from standard scientific reporting by embedding results and discussion sections within individual chapters. This was done to allow the individual data products to stand on their own as testable hypotheses and provide data users with a concise and complete report for each data and analysis product.

We begin with an overview of the Gap Analysis Program mission, concept, and limitations. We then present a synopsis of how the current biodiversity condition of the project area came to be, followed by land cover mapping, animal species distribution prediction, species richness, and land stewardship mapping and categorization. Data development leads to the Analysis section, which reports on the status of the elements of biodiversity (natural community alliances and animal species), for North Carolina. Finally, we describe the management implications of the analysis results and provide information on how to acquire and use the data.

The Gap Analysis Program Mission

The mission of the Gap Analysis Program is to prevent conservation crises by providing conservation assessments of biotic elements (plant communities and native animal species) and to facilitate the application of this information to land management activities. This is accomplished through the following five objectives:

- 1) map actual land cover as closely as possible to the alliance level of the U. S. National Vegetation Classification (FGDC 1997).
- 2) map the predicted distribution of those terrestrial vertebrates and other selected taxa that spend any important part of their life history in the project area and for which adequate distributional habitats, associations, and mapped habitat variables are available.
- 3) document the representation of natural vegetation communities and animal species in areas managed for the long-term maintenance of biodiversity.
- 4) make all GAP project information available to the public and to those charged with land use research, policy, planning, and management.
- 5) build institutional cooperation in the application of this information to state and regional management activities.

To meet these objectives, it is necessary that GAP be operated at the state or regional level but maintain consistency with national standards. Within the state, participation by a wide variety of cooperators is necessary and desirable to ensure understanding and acceptance of the data and forge relationships that will lead to cooperative conservation planning.

The Gap Analysis Concept

The Gap Analysis Program (GAP) brings together the problem-solving capabilities of federal, state, and private scientists to tackle the difficult issues of land cover mapping, animal habitat characterization, and biodiversity conservation assessment at the state, regional, and national levels. The program seeks to facilitate cooperative development and use of information. Throughout this report we use the terms "GAP" to describe the national program, "GAP Project" to refer to an individual state or regional project, and "gap analysis" to refer to the gap analysis process or methodology.

Much of the following discussion was taken verbatim from Edwards et al. 1995, Scott et al. 1993, and Davis et al. 1995. The gap analysis process provides an overview of the distribution and conservation status of several components of biodiversity. It uses the distribution of actual vegetation and predicted distribution of terrestrial vertebrates and, when available, invertebrate taxa. Digital map overlays in a GIS are used to identify individual species, species-rich areas, and vegetation types that are unrepresented or underrepresented in existing management areas. It functions as a preliminary step to the more detailed studies needed to establish actual boundaries for planning and management of biological resources on the ground. These data and results are then made available to the public so that institutions as well as individual landowners and managers may become more effective stewards through more complete knowledge of the management status of these elements of biodiversity. GAP, by focusing on higher levels of biological organization, is likely to be both cheaper and more likely to succeed than conservation programs focused on single species or populations (Scott et al. 1993).

Biodiversity inventories can be visualized as "filters" designed to capture elements of biodiversity at various levels of organization. The filter concept has been applied by The Nature Conservancy, which established Natural Heritage Programs in all 50 states. The Nature Conservancy, NatureServe, and the network of State Natural Heritage Program s employ a fine filter of rare species inventory and protection and a coarse filter of community inventory and protection (Jenkins 1985, Noss 1987). It is postulated that 85-90% of species can be protected by the coarse filter without having to inventory or plan reserves for those species individually. A fine filter is then applied to the remaining 15-10% of species to ensure their protection. Gap analysis is a coarse-filter method because it can be used to quickly and cheaply assess the other 85-90% of species. GAP is not designed to identify and aid protection of elements that are rare or of very restricted distribution; rather it is designed to help "keep common species common" by identifying risk far in advance of actual population decline. These concepts are further developed below.

The intuitively appealing idea of conserving most biodiversity by maintaining examples of all natural community types has never been applied, although numerous approaches to the spatial identification of biodiversity have been described (Kirkpatrick 1983, Margules and Nicholls 1988, Pressey and Nicholls 1989, Nicholls and Margules 1993).

Furthermore, the spatial scale at which organisms use the environment differs tremendously among species and depends on body size, food habits, mobility, and other factors. Hence, no coarse filter will be a complete assessment of biodiversity protection status and needs. However, species that fall through the pores of the coarse filter, such as narrow endemics and wide-ranging mammals, can be captured by the safety net of the fine filter. Community-level (coarse-filter) protection is a complement to, not a substitute for, protection of individual rare species.

Gap analysis is essentially an expanded coarse-filter approach (Noss 1987) to biodiversity protection. The land cover types mapped in GAP serve directly as a coarse filter, the goal being to assure adequate representation of all native vegetation community types in biodiversity management areas. Landscapes with great vegetation diversity often are those with high edaphic variety or topographic relief. When elevational diversity is very great, a nearly complete spectrum of vegetation types known from a biological region may occur within a relatively small area. Such areas provide habitat for many species, including those that depend on multiple habitat types to meet life history needs (Diamond 1986, Noss 1987). By using landscape-sized samples (Forman and Godron 1986) as an expanded coarse filter, gap analysis searches for and identifies biological regions where vegetation types and animal species occur which are unprotected or underrepresented in the network of conservation lands.

More detailed analyses were not part of this project, but are areas of research that GAP as a national program is pursuing. For example, a second filter could combine species distribution information to identify a set of areas in which all, or nearly all, mapped species are represented. There is a major difference between identifying the richest areas in a region (many of which are likely to be neighbors and share essentially the same list of species) and identifying (noncontiguous) areas in which all species are represented. The latter task is most efficiently accomplished by selecting areas whose species lists are most different or complementary. Areas with different environments tend to also have the most different species lists for a variety of taxa. As a result, a set of areas with complementary sets of species for one higher taxon (e.g., mammals) often will also do a good job representing most species of other higher taxa (e.g., trees, butterflies). Species with large home ranges, such as large carnivores, or species with very local distributions may require individual attention. Additional data layers can be used for a more holistic conservation evaluation. These include indicators of stress or risk (e.g., human population growth, road density, rate of habitat fragmentation, of pollutants) and the locations of habitat corridors between wildlands that allow for natural movement of wide-ranging animals and the migration of species in response to climate change.

General Limitations

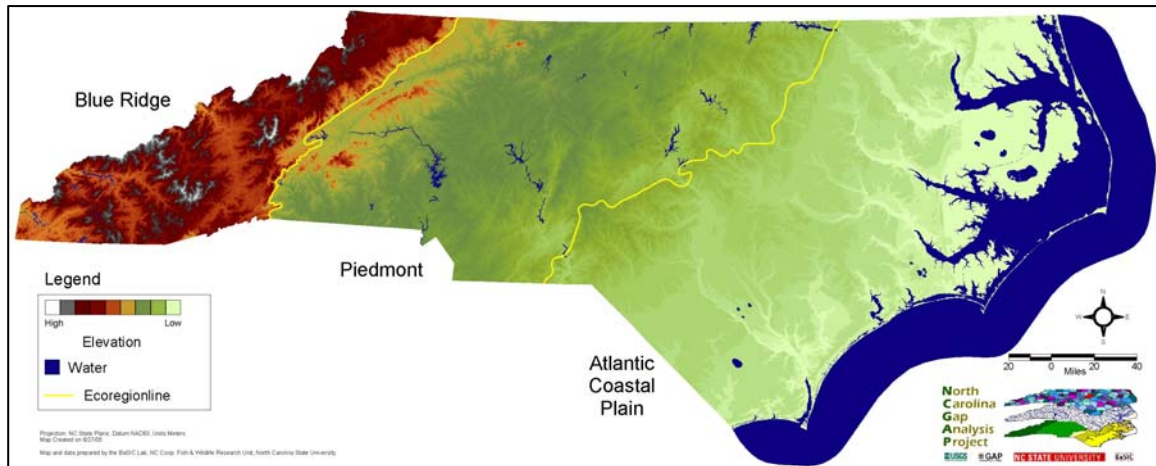
Limitations must be recognized so that additional studies can be implemented to supplement GAP. The following are general project limitations; specific limitations for the data are described in the respective sections:

1. GAP data are derived from remote sensing and modeling to make general assessments about conservation status. Any decisions based on the data must be supported by ground-truthing and more detailed analyses.
2. GAP is not a substitute for threatened and endangered species listing and recovery efforts. A primary argument in favor of gap analysis is that it is proactive: it seeks to recognize and manage sites of high biodiversity value for the long-term maintenance of populations of native species and communities before they become critically rare. Thus, it should help to reduce the rate at which species require listing as threatened or endangered. Those species that are already greatly imperiled, however, still require individual efforts to assure their recovery.
3. GAP data products and assessments represent a snapshot in time generally representing the date of the satellite imagery. Updates are planned on a 5-10 year cycle, but users of the data must be aware of the static nature of the products.
4. GAP is not a substitute for a thorough national biological inventory. As a response to rapid habitat loss, gap analysis provides a quick assessment of the distribution of vegetation and associated species before they are lost, and provides focus and direction for local, regional, and national efforts to maintain biodiversity. The process of improving knowledge in systematics, taxonomy, and species distributions is lengthy and expensive. That process must be continued and expedited, however, in order to provide the detailed information needed for a comprehensive assessment of our nation's biodiversity. Vegetation and species distribution maps developed for GAP can be used to make such surveys more cost-effective by stratifying sampling areas according to expected variation in biological attributes.

The Study Area - A Brief Description of North Carolina

North Carolina is entirely in the temperate zone and lies between latitude 33° 27' N and 36° 35' N and longitude 75° 27' W and 84° 20' W. Three major physiographic regions have been described for the state ([Map 1.1](#)). The Blue Ridge province in the west shares a border with Tennessee, central to the state is the less rugged piedmont region and to the east is the Atlantic coastal plain. North Carolina's highest mountains reach elevations over 6000 feet with Mount Mitchell at 6684 being the tallest mountain east of the Mississippi River. The Blue Ridge province is underlain by igneous, sedimentary and

metamorphic rocks over a billion years old. The complex topography provides for a wide variety of micro-habitats due to variable combinations of the slope, aspect, and elevation.



Map 1.1. An elevation map of North Carolina and the three major physiographic regions. (Keys et al. 1995)

Land use in the Blue Ridge region is predominantly forest management, tourism, with localized urbanization in some of the broader valleys. The Nantahala and Pisgah National Forests as well as Great Smoky Mountain National Park and Blue Ridge Parkway are some of the larger public land holdings in the region, as well as in the state as a whole. Spruce-fir, mountain bogs, and cove forests are some of the distinctive plant communities of the mountains. Oak forests are most extensive in the region and include forests dominated by scarlet, northern red, white and chestnut oak.

The Piedmont represents a transition from the relatively rugged topography of the mountains to the extremely flat Coastal Plain. On the western edge of the Piedmont, there are isolated inclusions of resistant geology related to the Blue Ridge. In general the Piedmont is represented by highly weathered metamorphic mountain, leaving a rolling topography. Ecosystems that are common to the region include the dry oak forests on undisturbed sites and pine dominated stands on sites that have been cleared and have been allowed to succeed back into forests. Large amounts of forests were cleared in the early 1900s, then abandoned, contributing to the pattern of pine-dominated stands throughout this province. Some locally significant geological formations (e.g., diabase) add to the plant species diversity in limited areas. Flatter portions of the region may have contained examples of a woodland-grassland mosaic at the time of European settlement. These environments are essentially absent from today's Piedmont.

Settlement occurred early in the Piedmont, and in North Carolina tends to be highly decentralized, leaving very few areas in the region as large undisturbed blocks. Historically the major land use was agriculture; currently urban centers are expanding into areas that previously supported farms and forests. Between 1950 and 2000 the population estimate for the state nearly doubled from 4,061,000 to over 8,049,000

(Hobbs and Stoops 2002), with most of that population growth occurring in the Piedmont. The Uwharrie National Forest, Eno River State Park, Pee Dee Wildlife Refuge, and a variety of holdings around reservoirs represent some of the major public holdings in the Piedmont.

The Coastal Plain is underlain by marine sedimentary rocks. The Sandhills region of the Coastal Plain is a very distinct sub-region supporting xeric pine woodlands on gently rolling hills. The remainder of the Coastal Plain is generally flat and historically dominated by longleaf pine woodlands, pocosin wetlands, and floodplain forests. The native longleaf woodlands have been severely reduced, with an estimate that less than 2 % of the original extent remains (Frost 1993). Maritime forests, Carolina bays, and coastal dunes represent some of the small extent but extremely important ecosystems of the province.

Settlement of the Coastal Plain has been extensive, with agriculture dominating the northern coastal region. In the outer Coastal Plain, where wetlands represent a barrier to development or agriculture, ditching and draining have been used extensively, and forest management dominates the land use. Along the coastal corridor, especially the barrier islands of the Outer Banks, urban development and vacation housing are a primary land use. Public lands along the coast include a number of U.S. Fish and Wildlife National Wildlife Refuges (Alligator River, Cedar Island, Currituck, Mackay Island, Mattamuskeet, Pea Island, Pocosin Lakes, and Swan Quarter), Cape Lookout and Cape Hatteras National Seashores, and the Croatan National Forest. Further inland, Fort Bragg and the Sandhills Gamelands represent public holdings in the Sandhills subregion. At Fort Bragg, incidental fires from military training as well as deliberate burning for stand management or fuel reduction promote healthy stands of longleaf pine and populations of associated species.

CHAPTER 2 - LAND COVER CLASSIFICATION AND MAPPING

Introduction

Mapping natural land cover requires a higher level of effort than the development of data for animal species, agency ownership, or land management, yet it is no more important for gap analysis than any other data layer. Generally, the mapping of land cover is done by adopting or developing a land cover classification system, delineating areas of relative homogeneity (basic cartographic "objects"), and then labeling these areas using categories defined by the classification system. More detailed attributes of the individual areas are added as more information becomes available, and a process of validating both spatial pattern and labels is applied for editing and revising the map. This is done in an iterative fashion, with the results from one step causing re-evaluation of results from another step. Finally, an assessment of the overall accuracy of the data is conducted. The final assessment of accuracy will show where improvements should be made in the next update (Stoms et al.1994).

In its "coarse filter" approach to conservation biology (e.g., Jenkins 1985, Noss 1987), gap analysis relies on maps of dominant natural and "semi-natural" land cover types as the most fundamental spatial component of the analysis (Scott et al. 1993) for terrestrial environments. For the purposes of GAP, most of the land surface of interest (natural and semi-natural) can be characterized by its dominant vegetation.

Vegetation patterns are an integrated reflection of the physical and chemical factors that shape the environment of a given land area (Whittaker 1965). They also are determinants for overall biological diversity patterns (Franklin 1993, Levin 1981, Noss 1990), and they can be used as a currency for habitat types in conservation evaluations (Specht 1975, Austin 1991). As such, dominant vegetation types need to be recognized over their entire ranges of distribution (Bourgeron et al. 1994) for beta-scale analysis (*sensu* Whittaker 1960, 1977). These patterns cannot be acceptably mapped from any single source of remotely sensed imagery; therefore, ancillary data, previous maps, and field surveys are used. The central concept is that the physiognomic and floristic characteristics of vegetation (and, in the absence of vegetation, other physical structures) across the land surface can be used to define biologically meaningful biogeographic patterns. There may be considerable variation in the floristics of subcanopy vegetation layers (community association) that are not resolved when mapping at the level of dominant canopy vegetation types (alliance), and there is a need to address this part of the diversity of nature. As information accumulates from field studies on patterns of variation in understory layers, it can be attributed to the mapped units of alliances.

Land Cover Classification

Land cover classifications must rely on specified attributes, such as the structural features of plants, their floristic composition, or environmental conditions, to consistently differentiate categories (Küchler and Zonneveld 1988). The criteria for a land cover classification system for GAP are:

- an ability to distinguish areas of different actual dominant vegetation;
- a utility for modeling animal species habitats;
- a suitability for use within and among biogeographic regions;
- an applicability to Landsat Thematic Mapper (TM) imagery for both rendering a base map and from which to extract basic patterns (GAP relies on a wide array of information sources, TM offers a convenient meso-scale base map in addition to being one source of actual land cover information);
- a framework that can interface with classification systems used by other organizations and nations to the greatest extent possible; and
- a capability to fit with classifications of other themes such as agricultural and built environments both categorically and spatially.

For GAP, the system that fits best is referred to as the National Vegetation Classification System (NVCS; FGDC 1997). The origin of this system was referred to as the UNESCO/TNC system (Lins and Kleckner 1996), because it is based on the structural characteristics of vegetation derived by Mueller-Dombois and Ellenberg (1974), adopted by the United Nations Educational, Scientific, and Cultural Organization (UNESCO 1973), and later modified for application to the United States by Driscoll et al. (1983, 1984). The Nature Conservancy and the Natural Heritage Network (Grossman et al. 1994) have been improving upon this system in recent years with partial funding supplied by GAP. The basic assumptions and definitions for this system have been described by Jennings (1993).

Throughout the development of the natural vegetation portion of the land cover map in North Carolina, we maintained a linkage to the NVCS through the alliance level descriptions of vegetation types. Early work made it clear that mapping at the level of individual alliances was not feasible given the resources and current technology available for the project. At the 1997 Southeast Regional Gap Meeting, the concept of ecological groups and compositional complexes as alternative mapping units was introduced (Pearlstone et al. 1998). Several states in the region found that while they were unable to map individual alliances, they felt they could represent groups of alliances that were ecologically similar and spatially intermixed, and that those groupings would be more meaningful for habitat modeling than simply mapping at the formation level in the hierarchy. A definition for ecological complexes was drafted to account for mosaics of dissimilar alliances that are spatially and ecologically related on the landscape. The use of the term “dissimilar” in this case refers to the fact that physiognomically distinct cover types can be included in a complex. To deal with situations where taxonomically and structurally similar cover types are represented within a single map unit, a definition for compositional groups was proposed. Compositional groups were defined as groupings of

alliances with similar taxonomic composition and physiognomy. Compositional groups do not require a spatial linkage between the alliances attributed to a group. For example, dry-mesic pine forests of the Piedmont in North Carolina may contain loblolly pine in the east and transition into Virginia pine- and shortleaf pine-dominated forests in the west. In North Carolina we mapped the Piedmont Dry-Mesic Pine Forests as a single map unit with the understanding that the alliances represented in that group would shift from east to west.

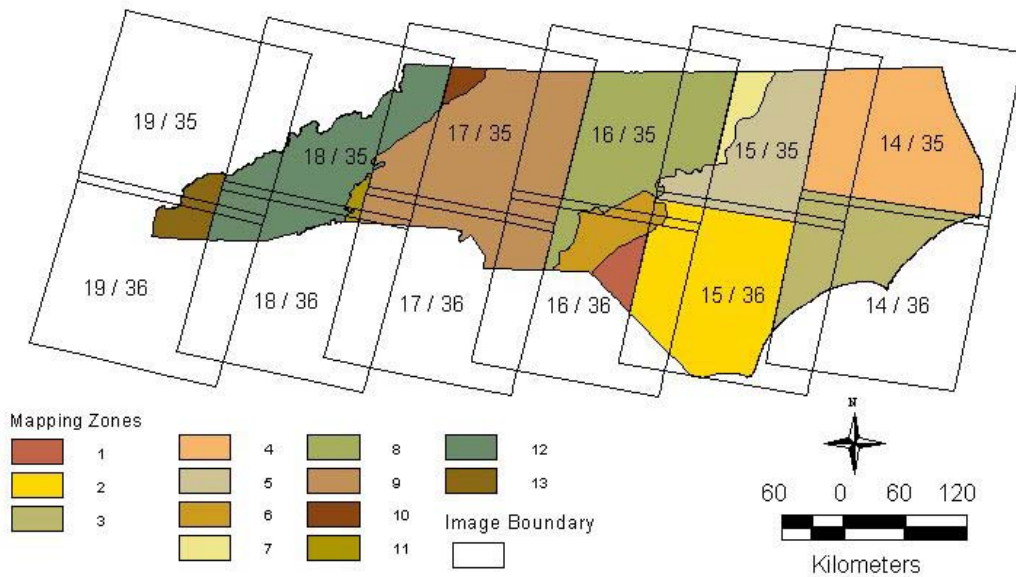
In response to the feedback being provided by GAP as well as other agencies, NatureServe developed a list of proposed Ecological Groups for the southeast region. The terminology had shifted slightly in that NatureServe's use of the term Ecological Group relates more to the concept of Ecological Complex as opposed to the compositional groups previously described. In North Carolina we adopted a modified list of those groups as the basis for our final land cover classification. See [Appendix A](#) for a description of NC-GAP land cover map units. A crosswalk showing the relationship between the NC-GAP map units and individual alliances as well as the ecological hierarchy as defined by NatureServe is presented in [Appendix B](#). Some groups were modified to recognize distinct phenological classes, and others were combined into broader types. For example, we classified successional forests based on whether they were pine or hardwood dominated. Conversely our Coastal Plain Fresh Water Emergent Map Unit (#380) represents a combination of nine ecological groups attributed to North Carolina. These nine groups represent herbaceous wetlands of the Coastal Plain but generally occur in small and relatively isolated patches, making it impractical for us to map each of them separately. For non-vegetated portions of the state, our classification system is based on the definitions and classes of the National Land Cover Dataset 1992 (Vogelman et al. 2001).

A key to the NC-GAP land cover map units and the characteristics that distinguish them is provided (See [Appendix C](#)). A primary sorting factor in the classification hierarchy for our final map units is a physiographic break between the Coastal Plain and the Piedmont/Mountains portion of the state. In North Carolina the fall line represents a relatively clear break between the Coastal Plain and Piedmont; the shift in vegetation between the Piedmont and Mountains is more subtle, with lower elevation cover types being similar and shifts in composition occurring with increasing elevation and topographic complexity.

Methods

The state was stratified into a total of 13 mapping zones, which were processed individually. Eleven of those 13 mapping zones represent the area determined by the intersection of a single date of Landsat TM imagery and the Ecoregional Provinces identified in Bailey's Ecoregional Map ([Map 2.1](#)). The Sandhills subsection of the Coastal Plain was separated out from the Coastal Plain Province and mapped separately. The land cover mapping relied heavily on a decision rule process in which unsupervised classification of the Landsat TM data was paired with rules based on the ancillary data in order to label the cover types. Limited supervised classification and refinement based on

manual delineation was used for specific cover types. Data availability and the relevance to land cover within an ecoregion determined which ancillary layers were used in each region.



Map 2.1. The thirteen mapping zones resulting from the intersection of the ecological regions with the Landsat TM imagery.

Mapping Standards and Data Sources:

Twenty-one of the 23 Landsat TM images used for the project were provided through the Multi-resolution Landscape Characterization Program and ranged in date from October 1991 to October 1993 (Table 2.1). In order to map the state, portions of 14 scenes were required. Preprocessing, including geo-rectification of the Landsat TM imagery was performed at EROS Data Center (Vogelmann and Hegge 1996; MRLC). Geo-rectification with a standard total RMSE of less than 30 meters was done using 1:100,000 scale digital line graphs (DLG) as well as 1:24,000 scale topographic maps. Throughout image processing and classification, the 30-meter (0.09 ha) resolution data were maintained. The minimum mapping unit for the land cover dataset is 2 ha, approximating the area of a 5 by 5 pixel area.

The goal of the National Gap Analysis Program at the initiation of this project was 80% thematic accuracy for an Alliance level land cover product. As mentioned previously, early efforts showed that alliance level mapping would not be practical. With the shift to mapping units based on Ecological Groups, groups of alliances, our goal for accuracy remained 80% overall accuracy and 85% per class accuracy with the broader class definitions.

Table 2.1. Landsat TM Images Available for Land Cover Mapping.

Path	Row	Leaf On	Late Season
14	35	23 May 1992	13 October 1992
14	36	23 May 1992	13 October 1992
15	35		20 October 1992
15	36	16 May 1993	18 October 1991
16	35	1 March 1992 / 18 May 1997*	28 September 1993
16	36	1 March 1992 / 4 May 1992 / 18 May 1997*	
17	35	11 May 1992	3 November 1992
17	36	11 May 1992	3 November 1992
18	35	6 June 1992	25 October 1992
18	36	19 April 1993	28 October 1993
19	35	23 April 1993	30 September 1992
19	36	23 April 1993	17 November 1992

* Images not included in the Multi-Resolution Landscape Characterization Archive.

Ancillary Data

In addition to the unclassified Landsat TM data described above, there were four primary ancillary data sources being used for the land cover mapping (see [Table 2.2](#)).

Table 2.2. Ancillary Datasets and their application to Land Cover Mapping.

Data Source	Application	Area
National Land Cover Dataset (Vogelman et al. 2001)	Masking Cover Types	Statewide
National Wetland Inventory (U.S. Fish and Wildlife Service)	Upland/Wetland Delineation	Statewide
National Elevation Dataset (USGS 1999)	Topographic Relative Moisture Index, Landform Index, & Elevation	Piedmont/Mountains
Natural Resources Conservation Service Detailed County Soils (USDA, NRCS 1996)	Labeling Vegetation Types	Coastal Plain

The 1992 National Land Cover Dataset (Vogelmann et al. 2001) was used statewide to mask out pixels representing non-vegetated land cover classes. For each mapping zone an area of interest was created in Albers projection of the NLCD, and that area re-projected into 30-meter cells in the UTM zone of that mapping zone. If a mapping zone crossed a state line, the adjacent NLCD classified image for that state was subset and re-projected as well. The individual areas were then mosaiced to create a single NLCD classified image for the mapping area. We have included a list of old and new NLCD codes and the use of each class in the mapping effort (see [Appendix D](#)). Once created for a mapping zone, the non-vegetated classes were used directly in the final land cover, and the vegetated classes that were not masked out were processed further in the decision rule process described below.

The National Wetland Inventory data were available for the majority of the state, with the exception of partial quadrangles along the southern border of the state. For each mapping zone the NWI coverages were obtained from the U.S. Fish and Wildlife Service’s NWI website, re-projected to the UTM coordinate system and into the zone of

the corresponding Landsat TM image being processed (NAD83, Spheroid GRS1980). The attribute table for each wetland quadrangle was unloaded, and a list of unique alphanumeric attribute codes compiled. Over 1800 unique alphanumeric attribute codes existed statewide (Cowardin et. al. 1979). This list was then cross-walked to a 6-digit wetland attribute code and a 3-digit modifier code (see [Appendix E](#)). In Arc/Info a relate was created from this crosswalk and used to convert each of the original NWI coverages into two output grids, a grid of wetland attribute codes and one of wetland modifiers. The snap grid and set environment commands were used consistently to anchor the grids to the Landsat Image for that mapping area. The grids from each of the quadrangles within a mapping zone were then merged to create one grid of wetland attributes and a second one of the wetland modifiers for use in the decision rules.

The National Elevation Dataset (NED) was acquired and used in both the Piedmont and Mountains ecoregions (USGS 1999). In the Coastal Plain the topographic relief is gentle and not adequately represented at the resolution of the NED. Preliminary work indicated that artifacts in the elevation data would impact the derived topographic indices, especially in the Piedmont region. In an attempt to remove some of the artifacts, we re-interpolated the elevations from a random sampling of the original NED grids. Eighty percent of the grid cells were randomly selected to create a point coverage, which was then used in the ARC/INFO Grid module to re-interpolate the digital elevation models. Analyses were then completed with newly derived grids.

The elevation models were used to derive a Topographic Relative Moisture Index (TRMI; Parker 1982) as well as a Land Form Index based on procedures described by Halpin (1999). Topographic Relative Moisture Index was proposed by Parker (1982) as an approach to describing variability in soil moisture relative to four variables: slope, aspect, slope configuration, and topographic position. Landform Index integrates land position, in this case based on Fels and Zobel (1995), and slope characteristics. While we followed Halpin (1999), several minor modifications were necessary for the derivation of the TRMI (see [Appendix F](#)).

Natural Resources Conservations Service detailed soils data were available in digital format for the majority of counties in the Coastal Plain. Anson, Montgomery, and Lee counties on the western edge of the Sandhills region, a subsection of the Coastal Plain, were not available for this project. The Map Unit Interpretation Records (MUIR) were used to create a crosswalk between the attributes supplied in the SSURGO coverages and a numeric code representing unique soil series in the state. A total of 1824 variations on the Map Unit Interpretation Records were found for the county data we used, and of those records, 328 unique soil series occurred. Each of the county soil coverages was converted into 30-meter cell grids and attributed with a code representing those soil series. The individual county grids were then merged for each mapping zone, and the series information used in the decision rules for the Coastal Plain.

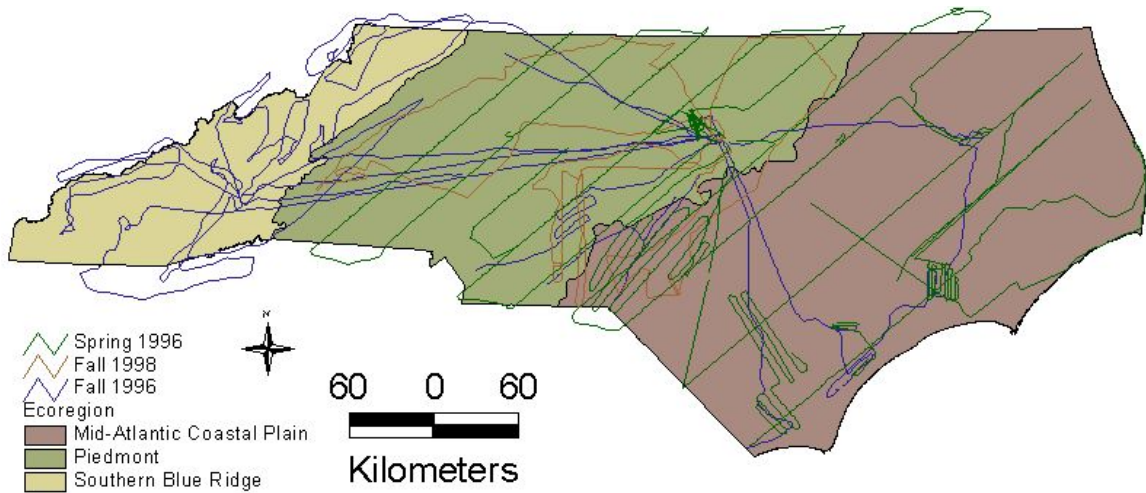
Ground Truth Data Acquisition

Seven sources of ground truth information were used for the land cover mapping and assessment (see [Table 2.3](#)). Over 100 hours of aerial videography transects were flown in the spring and fall of 1996 and again in the spring of 1998 (see [Map 2.2](#)). The video equipment was designed to collect both wide angle and zoom video, with the wide angle representing approximately 120 meters and the zoom providing higher resolution data for the 30 meters centered in the wide angle (see [Figure 2.1](#)). A time code stamp on each frame ties the frame to a simultaneously collected GPS location (Slaymaker et al. 1996). In the lab the video transects were viewed once to select sites to be visited on the ground. The time code information was used to create a map of sites to be visited and hard copy prints produced to be taken in the field. In the field, we navigated to the approximate location using a car-mounted GPS, and once at the site, used features on the video prints (road edges, unique canopy structure) to verify the location of the image relative to the land cover. The interpretation phase included reviewing the videography and labeling points on the imagery. To accommodate a lack of precision in the placement of the points due to the tip and tilt of the plane during the flights, we only interpreted the videography in a 5 x 5 pixel homogenous area. For interpreted points from other sources, we discarded points where the spatial precision was too coarse. For example, for the Heritage Plant Community Element occurrence records, only points with a recorded precision of seconds were used.

In the interpretation phase, if a land cover type was seen that was difficult to interpret, new sites were selected and additional site visits were used to verify the interpretation and labeling of the videography. Point labels in the Coastal Plain were initially assigned based on National Vegetation Classification alliances where possible (Weakley et al. 1998). Once it was determined that that level of mapping was impractical statewide, ground truth and assessment data were assigned the broader Ecological Group labels. The Natural Heritage Plant Community Element Occurrence records as well as any other interpreted points from other cooperators were also cross-walked to the final land cover types used in our final map legend. Up to three quarters of the interpreted points generated were used in the decision rule process described below for each of the mapping zones. One fourth of the interpreted points for each vegetation class have been reserved for the final assessment.

Table 2.3. Sources of the Ground Truth and Reference Data Used in Land Cover Mapping.

Reference Data Source	Type of Information	Time Frame
Aerial Videography	Detailed Land Cover <ul style="list-style-type: none"> ➤ wide angle image ➤ zoomed image 	1996, 1998
Field Visits	Detailed Land Cover	1996 - 2002
Natural Heritage Plant Community Element Occurrence Records	Plant Community Label	Pre-1990-2002
Division of Coastal Management – Coastal Change Analysis Program Field Data	Detailed Land Cover <ul style="list-style-type: none"> ➤ Plot data 	1996
North Carolina Vegetation Survey	Plant Community Label	1988 - 2002
Digital Ortho Photo Quadrangles	Generalized land cover	1993



Map 2.2. Aerial videography flight lines for each of the ecological regions of North Carolina. Data gathered included both wide angle and zoomed images.

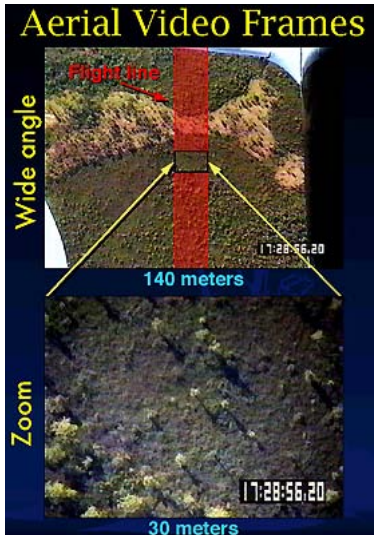


Figure 2.1. Detailed View of an Aerial Video Transect.

Image showing the wide angle and zoomed image as well as the Time Code Stamp (lower right) used to synchronize the video and GPS location.

Land Cover Map Development:

We used a decision rule process statewide as a way of integrating unsupervised image classification with the ancillary data layers. There were significant differences in the layers and approaches used between the Coastal Plain, Sandhills, Piedmont and Mountains, so we have discussed the process of each of these areas separately following the general description of the decision rule process included in the Coastal Plain section. Statewide, the NLCD classification was used to mask out pixels that represented water, barren, agriculture and urban cover classes. The pixels that remained were then clustered using the unsupervised classification algorithm (ISODATA) in ERDAS Imagine (Tou and Gonzalez 1974). For each mapping zone, 80 clusters were generated for the first round of unsupervised classification. For most study areas a single Landsat TM image date was used to develop the initial set of clusters. The choice of images was based on the quality of the images available for the area and the appropriateness of the image date for distinguishing vegetated cover types. There were several cases where haze or cloud cover excluded one of the image dates from being useful in the classification work. Once the clusters had been derived, they were either used directly as input into the decision rules process (Coastal Plain) or refined using additional unsupervised classification (cluster busting) in order to generate a general land cover classification, which was used in the decision rules process (Sandhills, Piedmont, Mountains). Once the vegetated classes had been classified, the non-vegetated NLCD classes were integrated into the final land cover for each mapping zone.

Decision Rules Process for the Coastal Plain

The decision rule process involved developing a database of ancillary data for each interpreted point within a mapping zone. The interpreted points represented a known cover class at a specific X and Y location. These coordinates were used to query each of the input data layers for the attribute information at that location. We used the “pixel to

ASCII” function in ERDAS Imagine to obtain a file with the values from the soils, NWI, and clustered image that occurs at each of the X,Y locations in the interpreted points dataset. In the Coastal Plain, this database was then used to develop a series of “IF...THEN” statements for each of the 80 clusters (see [Figure 2.2](#)). In Imagine, the rules are applied sequentially, and once a pixel has been classified using a conditional statement, it is not considered in subsequent rules. To mimic this while writing the rules, we went through on a cluster by cluster basis and iteratively subset the points based on the combination of the ancillary information used to develop each rule. For example, in one mapping zone the majority of interpreted points that fell within cluster 25 occurred on the Croatan soil and had a National Wetland Inventory code of saturated palustrine needle-leaved evergreen forest had been interpreted as pond pine woodland points. Therefore, a rule was written based on that combination of ancillary information. The points that would be decided by that rule were then removed from the dataset, and the process repeated for the remaining points in the cluster.

Once the rules were written, a crosswalk between rule number and the land cover was developed and the rules incorporated into an Imagine model. As mentioned above, we used the rule number in the output image as opposed to the land cover code. This allowed us to query the output map without interpreted points and identify which rule had “decided” a pixel in the image. If the pixels are decided as we expect, then the rule numbers can be recoded to create the vegetation map. If, however, we find mismatches between the land cover associated with the rule at that location and the interpreted points, we can readily trace the errors back to their origin. We can determine if the errors are due to true confusion between classes that cannot be overcome given the data we have or are caused by typographical mistakes or errors in the logic of a rule. Once recoded to create the vegetation image, the NLCD land cover classes that had been previously masked out were merged back in with the vegetation classes decided by the rules.

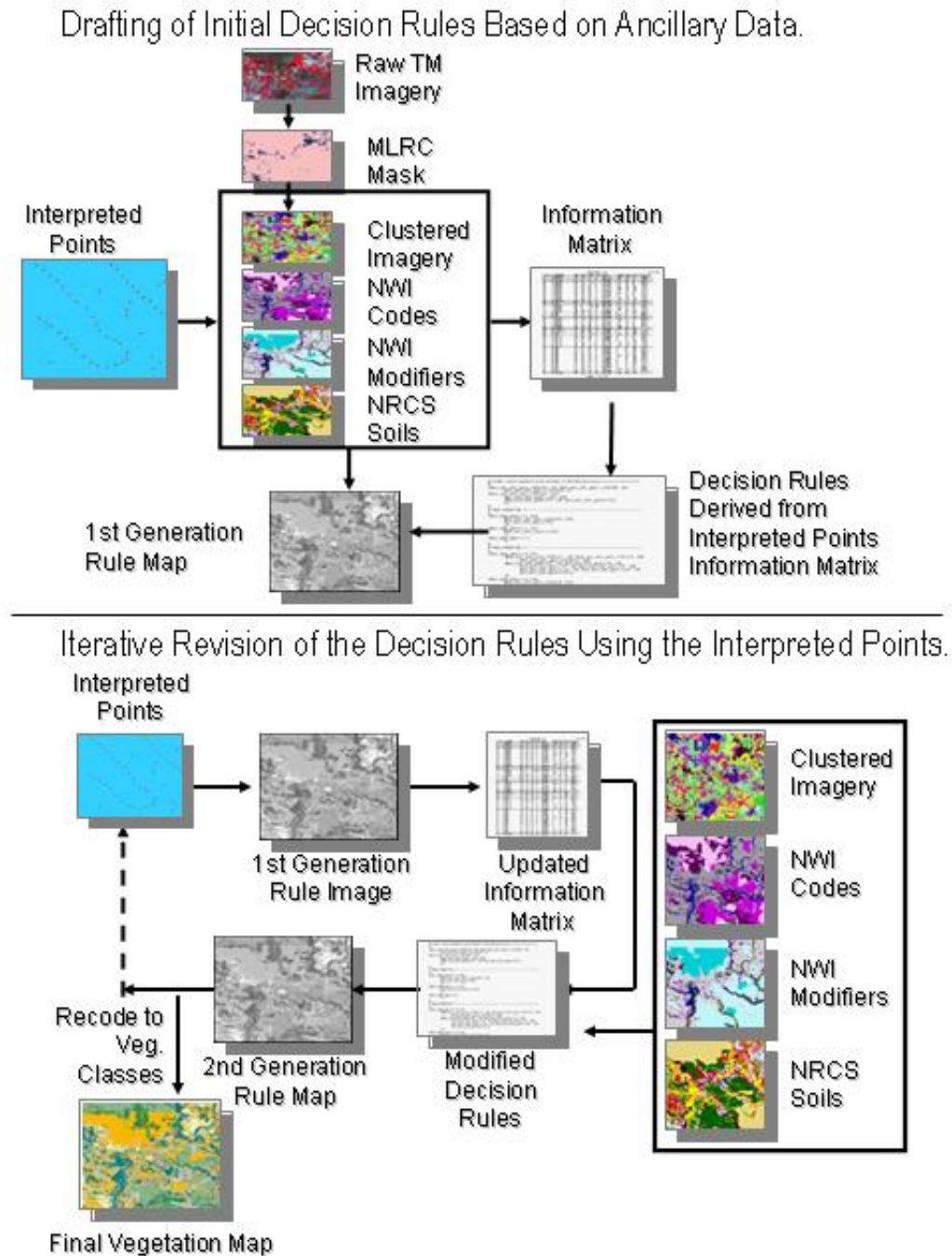


Figure 2.2. Flow Diagram of the Decision Rules Process Used in Mapping Land Cover for the Coastal Plain of North Carolina.

In the Coastal Plain, vegetated pixels that remained undecided by the decisions rules were decided through a zonal majority process. Groups of clusters from the unsupervised classification were identified, and the pixels from each group output to a separate image. Those images were then further divided using the upland/wetland criteria from the National Wetland Inventory. For example, one image would represent the undecided

upland pixels from clusters 1-10. Those pixels would then be decided based on the soil series they occupied and the land cover type that was most common for upland pixels in clusters 1-10 and on the same soil series. For the few scattered pixels left undecided by the zonal majority, a neighborhood majority function was used and applied only to the undecided pixels using only the non-NLCD cover types to determine the neighborhood majority.

Sandhills Image Classification

While the Sandhills are considered to be a subsection of the Coastal Plain Ecoregion, they are distinct enough with respect to the vegetation and land use patterns that we mapped them separately. The NCRS's 1:250,000 scale STATSGO Sandhills soil unit was used to identify the boundary for this mapping zone. While this unit is distinctive in North Carolina from the remaining Coastal Plain, the boundary is less clear in South Carolina. A buffer of 10 km was added to the study area during the development of the land cover for this zone. Ancillary data layers used for this area included the SSURGO Soils and the National Wetland Inventory. In addition to the MRLC Landsat TM data from 1 March 1992, the 18 May 1997, images were used to help label the generalized cover classes. The early season image allowed for differentiation between grassy and woody understory, which was not distinct in the March 1992 image. We were careful to label clusters in which a cover class change had occurred with the 1992 cover class, in order to remain consistent with the statewide land cover product.

Tassel-capped transformation was done on both the 1992 and the 1997 images, and the brightness, greenness, wetness bands from both dates of imagery combined into a single image. That newly created six-band image was clustered to 80 clusters using the Isodata clustering algorithm in ERDAS Imagine. A cover class (grass, mixed, pine, mixed forest, deciduous forest) was assigned to each of the cluster values based on aerial interpretation of either 1993 digital orthophoto quadrangles or hardcopy photographs. For clusters where more than one cover class had been assigned, cluster busting was done, in which pixels representing clusters with similar confusion were used in a second unsupervised classification. The classes from that second clustering were then labeled with the same general cover classes listed above. For example, if clusters 5, 7, 10, 15, and 19 represented both mixed forest and deciduous forest types in the first unsupervised classification, the pixels represented by those clusters would then be isolated from the six-band tassel-capped image and a second unsupervised classification performed. This was done with each of the clusters until the majority of pixels could be assigned to one of the general cover classes that would then be used in the decision rules.

An exception to the simple cluster busting technique for labeling the generalized cover class was the use of manual labeling of clumps of dense pine pixels as representing either dense pine or closed canopy pine. Variations of the longleaf pine woodlands that occur in the Sandhills are globally significant and range from open woodlands to denser canopies depending on environmental variation as well as management. In order to more accurately map dense woodland stands as distinct from closed canopy stands more likely to represent planted pine, we created an image of the dense pine classes from the unsupervised classification, clumped those pixels based on an eight-pixel neighborhood

and sieved out contiguous patches of less than 64 pixels. The remaining clumps were then manually labeled as dense pine woodland, open pine woodland, or closed pine stand based using the digital orthophoto quadrangles as a reference. These three general classes were combined with the classes from the cluster busting work, and a single image with 150 clusters labeled with one of seven generalized cover classes (water, closed pine, mixed forest, open pine woodland, grass, dense pine woodland, deciduous).

Those cover classes were then used in the decision rule process along with the soils and wetland data. For example, a pixel from the pine cover class that occurred on a palustrine forested deciduous wetland (attribute code 502121) with saturated hydrology (wetland modifier 120) and on Johnston, Torhunta-Lynn Haven or Alluvial soils (soil code 67, 140 or 177) was classified as Atlantic White-cedar forest (Map Unit 41). Some of the videography points in the Sandhills had to be discarded because they had been placed in areas with multiple cover types within the 5x5 pixel block. Therefore, we relied more heavily on the Natural Heritage Community Element Occurrence Records and the plot data gathered as a part of the North Carolina Vegetation Survey (Peet et al. 1998). In addition to the interpreted points, relationships between cover types, soil series, and wetland status described in the Natural Resource Inventory of military lands in the region were used to develop additional rules (TNC and NC Natural Heritage Program 1993). Once the rules had been written and applied, undecided pixels were labeled based on the zonal majority function described previously. In this case, pixels from the same generalized land cover classes were used as the groups to which the zonal majority was applied. This is in contrast to the “groups” of clusters that were used in the rest of the Coastal Plain. Following the application of the decision rules, the NLCD classes were incorporated and a majority filter applied to still undecided pixels. Again, only non-NLCD classes were used to determine the majority cover class in a neighborhood.

Piedmont Image Classification

Portions of five Landsat TM images were required to map the Piedmont of North Carolina. Fortunately images with the same acquisition date were available for the Eastern portion of the Piedmont (Path 16) and for the West (Path 17). Tassel-capped transformations were done for both the Eastern and the Western images and unsupervised classifications created with 80 classes for each path. Those 80 classes were labeled with general land cover using the digital orthophoto quadrangles. Again cluster busting was done for classes representing more than a single cover class or to refine classes where shadow effects complicated the labeling of a cluster. The refined clusters were labeled with the generalized class and recombined into a single image. Decision rules based on combinations of those general cover classes, the Topographic Relative Moisture Index, and the National Wetland Inventory information were then implemented. For the Western Piedmont the generalized classification was developed using the same cluster busting approach and the same decision rules applied to that image. In other words the only difference between the Eastern and Western Piedmont classifications is the result of the generalized land cover classification since the rules were applied region-wide. Pixels that remained undecided following the decision rules and incorporation of the NLCD

classes were decided through a neighborhood function applied only to undecided pixels and using only non-NLCD cover types in the calculation of the neighborhood majority.

Mountains Image Classification

Generalized land cover labeling was done for each of the three mapping zones in the Mountains using the 80-cluster unsupervised classification procedure. The unsupervised classification for each area was done on the tasseled-capped transformed images. The topographic complexity in the Mountains made even the classification of general forest types difficult due to shadowing and high reflectance areas in the images. In order to deal with those problems some of the confused classes in the original unsupervised classifications were cluster busted using pixels from the same image, while others were refined using the topographically normalized imagery. We used the normalization to refine clusters where the confusion was due to shadowing or high reflectance because of the aspect. The decision as to which derivation (topographically normalized, non-normalized) of the image and the appropriate date of imagery to use was based on the cover class being classified, the phenology of the imagery, and the quality of the image available for each mapping zone within the region. The generalized cover classes were then used in the decision rules along with Elevation, Topographic Relative Moisture Index, Landform Index, and the National Wetland Inventory. The Spruce-Fir Forest, High Elevation Balds, Shrub Balds and Outcrops were dealt with using a combination of supervised classification, on screen digitizing, and decision rules. The NLCD classes were reincorporated, and majority filters again used to label undecided pixels. Again the neighborhood majorities were calculated based on the non-NLCD classes in the neighborhood.

Special Feature Mapping:

While the majority of cover classes were mapped in the decision rule process, several were dealt with by a combination of supervised classification. In the Mountains a supervised classification was used to identify potential Spruce-Fir Forests, and an area of interest used to limit the boundary of those forests. A similar approach was used with the Grassy Balds, Shrub Balds, and Outcrops. In each case the ground truth information including point coverages and digital orthophoto quads was used to guide the creation of the bounding polygons. In the Sandhills area of interest, polygons were used to recode golf courses into the Agricultural/Pasture/Hay and Natural Herbaceous cover class. As mentioned above dense pine woodlands were separated from closed pine stands through a process of labeling individual clumps of evergreen pixels based on digital orthophoto quadrangles. This distinction was considered to be important for distinguishing areas of planted pine from natural woodlands.

Creating the Statewide Land Cover Mosaic

The statewide composite was mosaiced in ERDAS Imagine. The boundary between the Piedmont and Mountains is primarily based on the boundary between the Southeastern Mixed Forest Province (231) and the Central Appalachian Broadleaf-Coniferous Forest Meadow Province (M221, Keys et al. 1995). The southern portion of the boundary between the Mountains and Piedmont is based on the eastern edge of the Landsat TM image 1836. The bounding polygon for the Sandhills Region was the STATSGO soil

unit (USDA – SCS 1994), including the northern portion of the Lumber River. The line between the Coastal Plain and Piedmont was created by digitizing a line closest to the STATSGO soil unit boundary representing the fall line break between the two regions. Within a province where classifications overlapped, the scene with the higher quality classification based on the remote sensing analyst's judgment was given priority, and an area of interest was used to create the mosaic boundary where two scenes met. A 5-kilometer buffer from open water was then added to the coastline to complete the map.

Results

The North Carolina Gap Land Cover classification includes 69 map classes, 59 of them representing natural and semi-natural land cover classes dominated by vegetation (Appendix G, Map 2.3). Upland forests, including deciduous, mixed and evergreen types, represent 51% of the total area mapped (Figure 2.3). A fourth of the land cover is the cultivated herbaceous category, the majority of which is row crops. Ten percent of the state was classified as wetland, the vast majority of that being wetland forests of the Coastal Plain region.

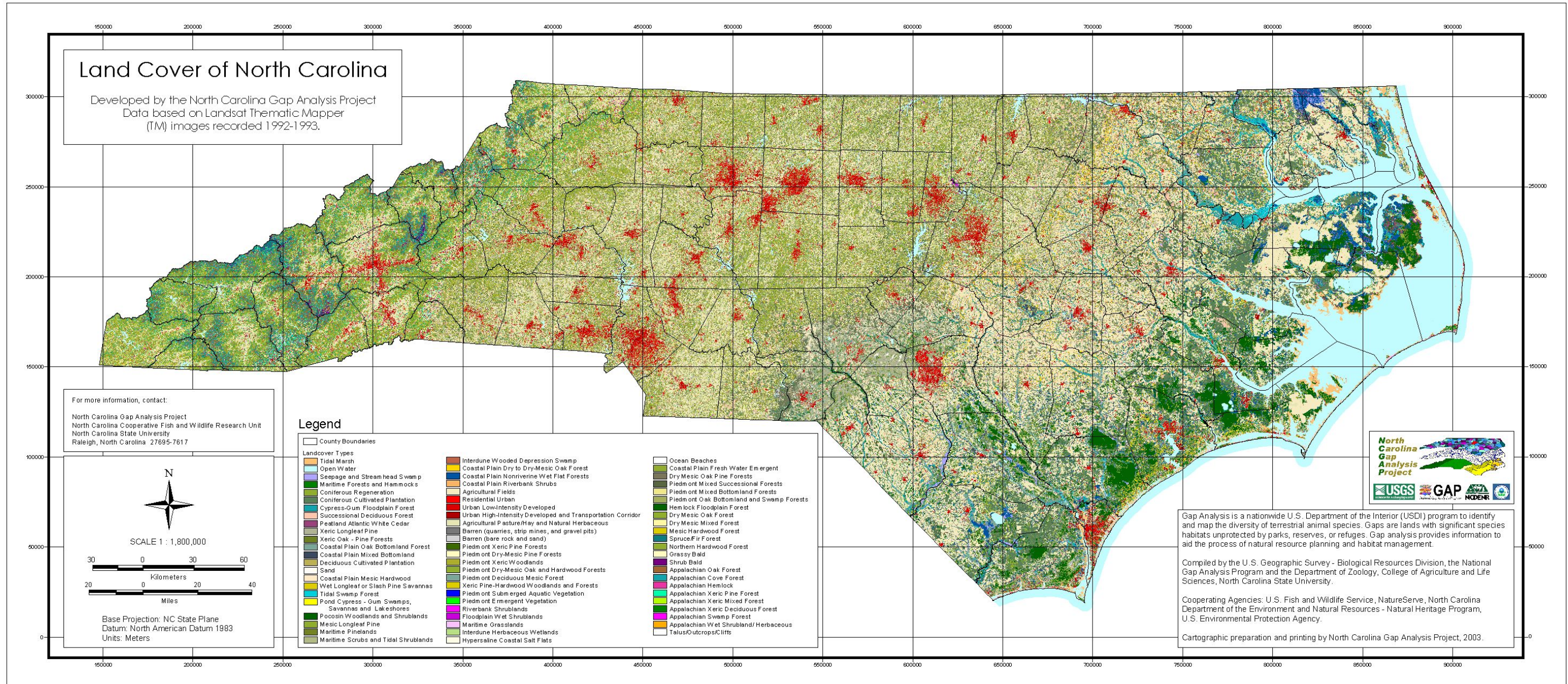
Statewide, the two most extensive natural/semi-natural cover classes are the Piedmont Dry-Mesic Oak Hardwood Forest (#228, 7%) and Coniferous Cultivated Plantations (#21, 7%), which cover 9,814 and 9,662 square kilometers, respectively. The most extensive wetland forest type was the Pocosin Woodland and Shrubland (#87), representing 3% of the area.

Within the Coastal Plain, Row Crops (#180, 24%), Water (#8, 15%), Coniferous Cultivated Plantations (#21, 11%) and Pocosin Woodlands and Shrublands (#87, 7%) are the dominant land covers. The patch sizes for cultivated land and the forested wetlands tend to be much larger in the outer Coastal Plain. In the inner Coastal Plain the agricultural lands tend to be much smaller and interspersed with upland forest, whereas the forested wetlands are limited to the large river systems of the Roanoke and the Cape Fear rivers. There are several larger municipalities, including Wilmington, Fayetteville, and Jacksonville, that represent most of the 1699 square kilometers of urban land use in the Coastal Plain. Seventeen percent of the region was mapped as Forested or Herbaceous Wetlands. Pocosin Woodlands and Shrublands (#87, 7%), Cypress-Gum Floodplain Forests (#30, 3%) and Coastal Plain Nonriverine Wet Floodplain Forest (#158, 3%) and Tidal Marsh (#3, 1%) were the most extensive wetland cover classes.

Upland forests represent 62% of the land cover in the Piedmont. The most extensive natural cover types include Piedmont Dry-Mesic Oak and Hardwood (#228, 20%), Dry Mesic Oak Pine Forests (#382, 10%), Piedmont Dry-Mesic Pine Forests (#222, 8%) and Piedmont Mesic Forest (#230, 7%). Row Crops (#180) cover 15% and Pasture/Hay 10% of the region. At 6%, the proportion of the urban classes (#202, 203, 204) in the Piedmont is twice that for the Coastal Plain and Mountains. The forests and agriculture in the Piedmont are relatively evenly dispersed, while the 2660 square kilometers of urban land uses occurs in concentrations that are linked by the transportation corridors. The 17% of the Piedmont classified as wetland is dominated by Oak Bottomland Forest

and Swamp (#385, 8%), Piedmont/Mountain Mixed Bottomland Forest (#384, 7%), and Oak Bottomland Forest and Swamp (#385, 8%).

Seventy-nine percent of the Mountains Ecoregion is represented by natural upland vegetation types, with the majority of the area being classified Dry Mesic Oak Forests (#518, 35%). The Pasture/Hay class (#205) is the second most extensive class, covering 15% of the region. Appalachian Cove Forest (#526, 12%) and Appalachian Oak Forest (#525, 11%) were the next most abundant cover classes. Urban land cover (#202, 203, 204) represents approximately 526 square kilometers. Most of the urban and agricultural land uses are concentrated in the lower elevations in the Mountains, with the Asheville Basin being the major urban center for the region. Hemlock Floodplain Forest (#517, 1%) is the major wetland class, representing 218 of the 285 square kilometers of mountain wetlands.



Map 2.3. Land cover map of North Carolina.

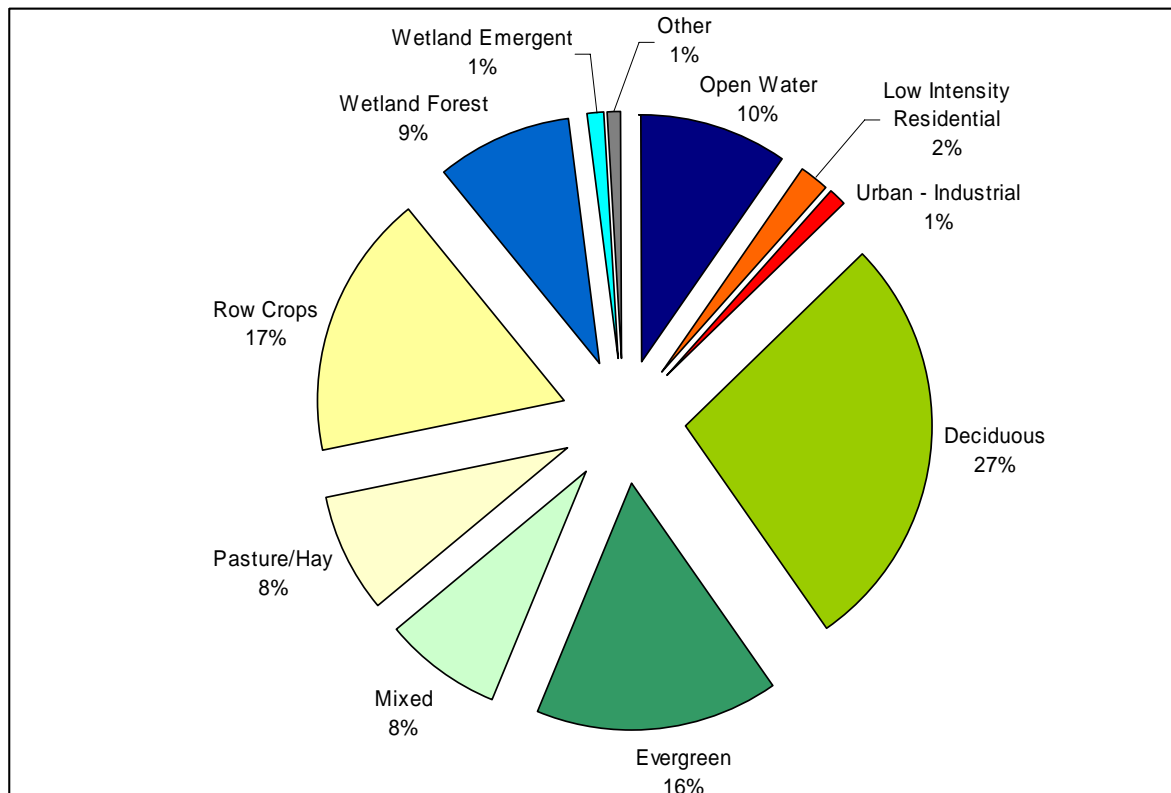


Figure 2.3. Percentages of general land cover types in North Carolina. “Open Water” includes a 5 km buffer of open water in the coastal region. “Other” includes two barren categories (bare rock and sand, quarries, strip mines and gravel pits), as well as shrubland and grasslands/herbaceous classes.

Accuracy Assessment

Introduction: GAP land cover maps are primarily compiled to answer the fundamental question in gap analysis: What is the current distribution and management status of the nation's major natural land cover types and wildlife habitats? Besides giving a measure of overall reliability of the land cover map for Gap Analysis, the assessment also identifies which general classes or which regions of the map do not meet the accuracy objectives for the Gap Analysis Program. Thus the assessment identifies where additional effort will be required when the map is updated. We report the results of the accuracy assessment, believing that the map is the best map currently available for the project area.

The purpose of accuracy assessment is to allow a potential user to determine the map's "fitness for use" for their application. It is impossible for the original cartographer to anticipate all future applications of a land cover map, so the assessment should provide enough information for the user to evaluate fitness for their unique purpose. This can be described as the degree to which the data quality characteristics collectively suit an intended application. The information reported includes details on the database's spatial, thematic, and temporal characteristics and their accuracy.

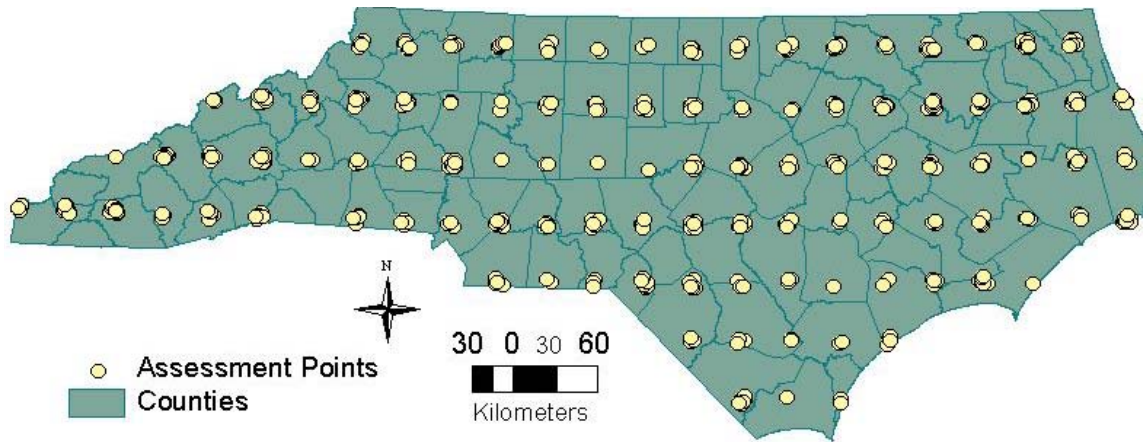
Assessment data are valuable for purposes beyond their immediate application to estimating accuracy of a land cover map. The reference data are therefore made available to other agencies and organizations for use in their own land cover characterization and map accuracy assessments (see Data Availability for access information). The data set will also serve as an important training data source for later updates.

Even though we have reached an endpoint in the mapping process where products are made available to others, the Gap Analysis process should be considered dynamic. We envision that maps will be refined and updated on a regular schedule. The assessment data will be used to refine GAP maps iteratively by identifying where the land cover map is inaccurate and where more effort is required to bring the maps up to accuracy standards. In addition, the field sampling may identify new classes that were not identified at all during the initial mapping process.

Methods

Both spatial and thematic accuracy assessments were completed for the statewide land cover dataset. In order to assess the spatial accuracy a set of 59 points were selected statewide to determine the amount and direction of shifts in the land cover. A stratified sampling of digital orthophoto quarter quadrangles was done and a point selected from within each of those for determining the coordinate for the center of a land cover pixel relative to the same location on the corresponding 1993 Digital Ortho Quarter-Quad (DOQQ).

Thematic accuracy was tested at two levels of thematic detail. A general classification based on cross-walking the detailed cover classes into 15 categories and an assessment for the detailed land cover were done using two sampling strategies. For the general classes, a stratified random sampling was done within 102 systematically identified DOQQs. A random starting point was selected, and every sixth quarter quad was then selected for sampling. Five hundred points were randomly sampled with stratification based on the areal extent of each of the mapped classes in the sampling frame ([Map 2.4](#)). Sampling was limited to areas with a clear majority in a 3-by-3-pixel neighborhood, and the interpretation for each point was done based on that area. The fact that we generated these points based on the final land cover classes and referencing the DOQQs meant that we had less spatial error to accommodate in the thematic assessment than we would in the detailed assessment described below. Interpretation of the reference points was done by an analyst who had not been previously involved in this land cover mapping effort.

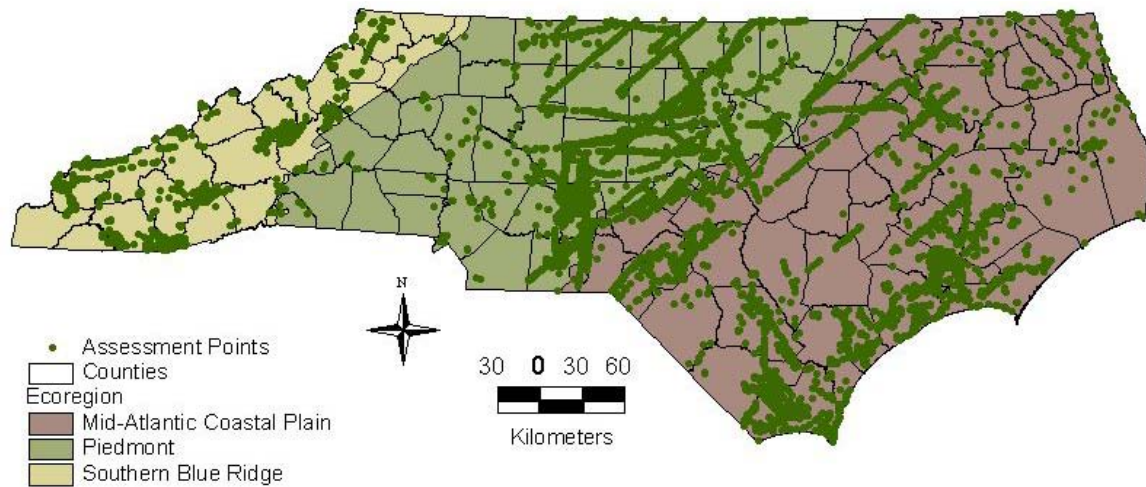


Map 2.4. Spatial distribution of the 500 accuracy assessment points used to assess the generalized (15 classes) land cover map.

The dataset used for the final accuracy assessment of the detailed land cover was generated throughout the project. In each mapping zone as the interpreted points database was completed a subset was identified and set aside for the assessment. The sources for the interpreted points are the same sources as those used for gathering the training data (see Table 2.3). Nearly a quarter of all interpreted points were identified for the assessment and never used in the decision rule process. A stratified random sample of the points from each mapping zone was done using the detailed cover class label as the strata. For the statewide assessment these points were compiled into a statewide dataset, and the detailed point labels cross-walked to the final land cover classes (Map 2.5). The focus while gathering the interpreted points were the vegetated cover classes, therefore we used the points from the general assessment for the non-vegetated classes in this assessment in addition to any points that had been interpreted previously. In some of the early interpretation datasets there were cases where multiple points had been labeled within the same patch of a cover type. In order to avoid cases of over-sampling in this assessment, we clumped the final land cover classes, and if more than one point in the same cover class occurred in a single cluster, a single point was randomly selected and used in the assessment.

A total of 10620 points were used in the detailed assessment. We used a five-by-five pixel window to determine the accuracy of a point. If any pixels in that neighborhood matched the cover class it was considered correct. For points with no match, the cover class represented by the mode in the neighborhood was used in the confusion matrix. We used the larger neighborhood for the assessment to accommodate the potential for ± 1 pixel error in the land cover, as well as in the interpreted points.

Results for both thematic assessments are reported based on calculations of the conditional probabilities outlined and discussed by Card (1982) and the Kappa Statistic calculated for a stratified random design as described by Stehman (1996).



Map 2.5. Spatial distribution of the assessment points used to assess the detailed North Carolina GAP land cover map.

Results:

The 95% confidence interval for the total spatial error in the land cover map is 20.6 ± 5 meters (Easting 38 ± 5 meters, Northing 27 ± 5 meters). A complete list of 59 points used and the coordinates for both the North Carolina land cover and the DOQQ are included for future reference (see [Appendix H](#)). The standard for the horizontal accuracy for the USGS DOQQs used is 33.3 feet (10.1 meters, USGS, National Mapping Division, 1996); therefore, a point in the assessment could be up to 10.1 meters higher if the DOQQ happens to have the maximal spatial error and if that error was in the same direction as error between the North Carolina Land Cover and the DOQQs. Most of the points show a shift in a northwest direction (see [Figure 2.4](#)).

Overall accuracy for the generalized land cover was 87.7% with a 95% confidence interval of 84.9 to 90.6%. The calculations for per class and overall thematic accuracy are based on the known map category marginal frequencies (Card 1982), which normalizes the error calculations based on both the number of samples within a strata as well as the proportion of the map represented in each cover class. The confusion matrix without the probabilities based on marginal frequencies is included for the reader (see [Table 2-4](#)). With the sampling scheme used, the accuracies with and without using the marginal frequencies will be similar but not the same. Use of the marginal frequencies is thought to improve the estimates by accounting for the unevenness in the extent and sampling efforts between cover classes. The Kappa statistic for the generalized land cover was 0.86 based on the stratified random sampling estimates described by Stehman (1996).

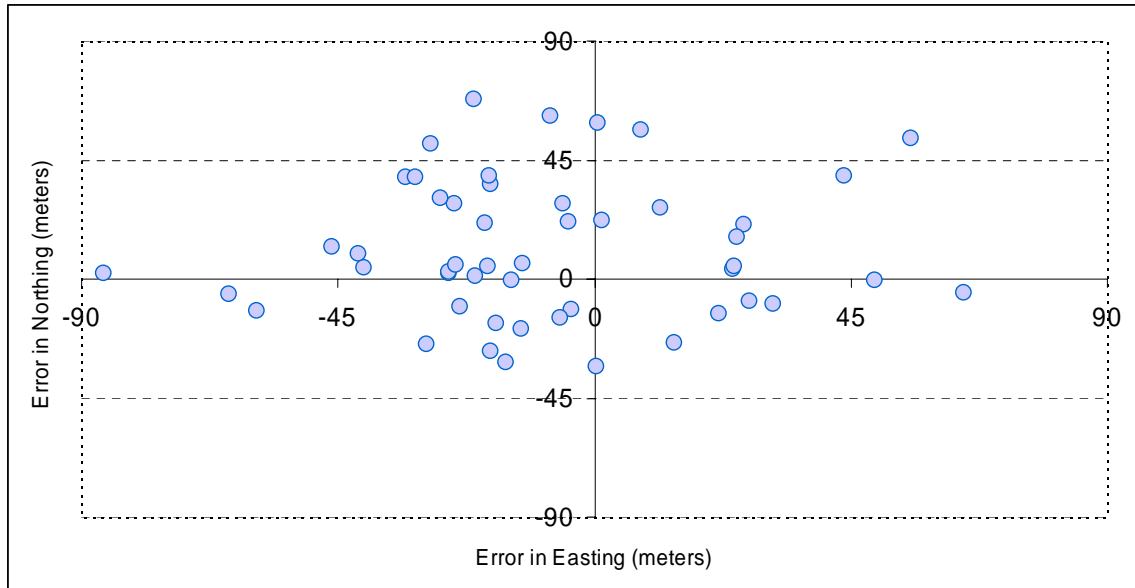


Figure 2.4. Measured errors in the easting and northing for 50 assessment points. Differences between the North Carolina Land Cover and 1993 Black and White Digital Orthophoto Quarter Quadrangles.

Per class accuracies with lambda (λ) representing the proportion of the map correctly classified, while theta (Θ) represents the proportion of the map that is correct based on the reference data are reported below (see Table 2-5). For the areas mapped as open water the probability that those areas are correct (lambda) is estimated at 95.12% in this generalized assessment. The probability that a reference point known to be open water is mapped correctly (theta) is estimated at 98.4%. Two generalized map classes had no assessment points generated in the stratified random sampling: Quarries/Strip Mines/Gravel Pits (#32) and Herbaceous Upland (#71). When combined, these classes represent less than 0.1% of the total land cover in the state. It is important to note that several of the classes had very small sample sizes. The most extensive generalized cover was deciduous forest, which has an estimated accuracy of 94% for lambda and 95% for theta. The probability that an area mapped as shrubland actually was shrubland was low, 20%. In other words there was high error of commission in the shrubland class. In this case there were four cases where an area mapped as shrubland had been interpreted as woody wetlands in the reference dataset. There was one reference data point labeled shrubland, and it was correctly mapped.

Table 2.4. Confusion Matrix for the Generalized Land Cover Class Assessment.

Classified	Reference Data															Total
	11	21	22	23	31	32	41	42	43	51	71	81	82	91	92	
11-Open Water	39													2		41
21-Low Intensity Resid.		7					1	1					1			10
22-High Intensity Resid.			2													2
23-Comm./Ind./Trans.		1		4								1				6
31-Bare Rock/Sand/Clay					1											1
32-Quarries/Strip Mines						0										0
41-Deciduous Forest							117	2	1				1	3		124
42-Evergreen Forest							4	67	10			1	1	6		89
43-Mixed Forest							3		26				3	2		34
51-Shrubland										1				4		5
71-Herbaceous Upland											0					0
81-Pasture/Hay							3	2				30	7			42
82-Row Crops							1	1	1			6	77			86
91-Woody Wetlands	1							4					1	51		57
92-Herbaceous Wetlands															3	3
Total	40	8	2	4	1	0	129	77	38	1	0	38	91	68	3	500

The overall accuracy for the detailed land cover map based on this assessment is 58.5% with a 95% confidence interval of 57.1 to 59.9%. This is based on the 10620 interpreted points. The estimated Kappa statistic for the detailed land cover is 0.73. The estimated accuracies in the detailed cover classes were highly variable ([Appendix I](#)). Seven of the 69 cover classes had no interpreted points for the assessment, and several more had very low numbers for this final assessment. The estimates of the probability correct given the mapped class covered the full range from 0 to 100% accuracy. The confusion matrix based on the 10620 assessment points shows the types of errors between classes (see [Appendix J](#)). It is important to remember that the raw numbers based on interpreted points have not been normalized based on the areal extent and the sampling effort within a class; therefore, overall accuracies and across class comparisons should not be done using those numbers directly. The interim calculations for deriving accuracy estimates are not included here but are thoroughly explained in Card (1982).

Table 2.5. Estimated Thematic Accuracy for the Generalized Land Cover Classes.

Lambda (λ) - the probability of the map being correct, given the map category. Theta (Θ) - the probably of the map being correct given the true category.

n - represents the number of reference points within each map class.

General Cover Class	Code	λ %	Θ %	n	Area km ²
Open Water	11	95	98	40	13,558
Low Intensity Residential	21	70	89	8	2,740
High Intensity Residential	22	100	100	2	650
Commercial/Industrial/Transportation	23	67	100	4	1,494
Bare Rock/Sand/Clay	31	100	100	1	287
Quarries/Strip Mines/Gravel Pits	32	0	0	0	122
Deciduous Forest	41	94	95	129	46,926
Evergreen Forest	42	75	75	77	10,206
Mixed Forest	43	76	81	38	10,869
Shrubland	51	20	100	1	62
Herbaceous Upland	71	0	0	0	3
Pasture/Hay	81	71	79	38	10,678
Row Crops	82	90	85	91	24,278
Woody Wetlands	91	89	76	68	15,928
Herbaceous Wetlands	92	100	100	3	1,258
Total				500	139,061

The probability correct based on the mapped class for the five most extensive cover classes in the state were Agricultural Crop Fields (#180, 92%), Open Water (#8, 59%), Agricultural Pasture/Hay and Natural Herbaceous (#205, 21%), Piedmont Dry-Mesic Oak and Hardwood (#228, 60%) and Coniferous Cultivated Plantation (#21, 78%).

The probability of the map being correct for a given reference site for the most extensive cover classes was Agricultural Crop Fields (#180, 80%), Open Water (#8, 99%), Agricultural Pasture/Hay and Natural Herbaceous (#205, 87%), Piedmont Dry-Mesic Oak and Hardwood (#228, 73%) and Coniferous Cultivated Plantation (#21, 72%).

In four of the cases of very low lambda values and low sampling size, the classes were the result of a decision rules using the National Wetland Inventory to identify an area as an emergent or shrub wetland (Riverbank Shrublands (#267), Appalachian Wet Shrubland/Herbaceous (#534), Piedmont/ Mountain Emergent Vegetation (#239) and Appalachian Swamp Forest (#533).

Limitations and Discussion

The user needs to be aware of several key issues with regards to the North Carolina Land Cover map and the assessments included here. The primary limitation for the land cover is the fact that the base imagery is currently 10 years out of date. Several potential users may find the time lag between the classified image and their current needs to be too great.

It is important to remember that the mosaiced land cover represents the compilation of 12 mapping zones across three ecological regions. As a result, inconsistencies in the labeling between the zones may be significant, depending on the user's area of interest. For example the fact that the Sandhills were mapped separately meant that we could focus more on the natural vegetation in that region, at the same time the decision rules used for that area were based on very different criteria and ancillary data than those for the Piedmont. While the within region classification is consistent and there are some statewide land cover classes that were maintained across all regions, there may be some differences that become important for users whose areas of interest straddle a regional or mapping zone boundary.

The points used to interpret and assess the land cover came from a variety of sources, including various video interpreters with variable levels of expertise. The video interpreting required that the interpreter carefully place the interpreted points based on their visual interpretation of raw satellite imagery. When we found interpreted points that had been placed in heterogeneous areas, we removed those from the dataset, but the final dataset is certain to still contain some of those. Another potential source of error is the series of crosswalks between map units in interim map products and the final mosaic. The interpreted points could also have errors associated with the crosswalks for interpreted points from the wide variety of sources and the final map unit labels.

The assessment of the detailed land cover map is based on a compilation of points gathered within each mapping zone and is not a true stratified random sample based on the final land cover map. As previously mentioned some mapped classes had no assessment points in the final dataset, either because points were removed due to problems in the homogeneity of the neighborhood or because the cover class was the result of a broad based rule, which was applied in order to distinguish special features such as emergent wetlands in the Piedmont. While we attempted to minimize the bias by using the marginal frequencies for estimating accuracies and removing points occurring in the same land cover patch, the user should recognize that a post-classification stratification would improve the accuracy estimates.

CHAPTER 3 - PREDICTED ANIMAL SPECIES DISTRIBUTIONS AND SPECIES RICHNESS

Introduction

All species range maps are predictions about the occurrence of those species within a particular area (Csuti 1994). Traditionally, the predicted occurrences of most species begin with samples from collections made at individual point locations. Most species range maps are small-scale (e.g., >1:10,000,000) and derived primarily from point data to construct field guides which are suitable, at best, for approximating distribution at the regional level or counties for example. The purpose of the GAP vertebrate species maps is to provide more precise information about the current predicted distribution of individual native species according to actual habitat characteristics within their general ranges and to allow calculation of predicted area of distributions and associations to specific habitat characteristics.

GAP maps are produced at a nominal scale of 1:100,000 or better and are intended for applications at the landscape or "gamma" scale (heterogeneous areas generally covering 1,000 to 1,000,000 hectares and made up of more than one kind of natural community). Applications of these data to site- or stand-level analyses (site--a microhabitat, generally 10 to 100 square meters; stand--a single habitat type, generally 0.1 to 1,000 ha; Whittaker 1977, see also Stoms and Estes 1993) will likely reveal the limitations of this process to incorporate differences in habitat quality (e.g., understory condition) or necessary microhabitat features such as standing dead trees.

Gap analysis uses the predicted distributions of animal species to evaluate their conservation status relative to existing land management (Scott et al. 1993). However, the maps of species distributions may be used to answer a wide variety of management, planning, and research questions relating to individual species or groups of species. In addition to the maps, great utility may be found in the consolidated specimen collection records and literature that are assembled into databases used to produce the maps. Perhaps most importantly, as a first effort in developing such detailed distributions, they should be viewed as testable hypotheses to be confirmed or refuted in the field. We encourage biologists and naturalists to conduct such tests and report their findings in the appropriate literature and to the Gap Analysis Program such that new data may improve future iterations.

Previous to this effort there were no maps available, digital or otherwise, showing the likely present-day distribution of species by habitat type across their ranges. Because of this, ordinary species (i.e., those not threatened with extinction or not managed as game animals) are generally not given sufficient consideration in land-use decisions in the context of large geographic regions or in relation to their actual habitats. Their decline,

because of incremental habitat loss can, and does, result in one threatened or endangered species "surprise" after another. Frequently, the records that do exist for an ordinary species are truncated by state boundaries. Simply creating a consistent spatial framework for storing, retrieving, manipulating, analyzing, and updating the totality of our knowledge about the status of each animal species is one of the most necessary and basic elements for preventing further erosion of biological resources.

Mapping Standards

NC-GAP predicted species distributions were developed in accordance with the GAP Handbook as of 16 February 2000 (version 2.0.0).

Methods

Mapping Standards and Data Sources

Vertebrate distribution modeling followed the general guidelines from the National Gap Analysis Program in that it had the following general steps:

- 1) Develop a list of species to be modeled.
- 2) Establish the geographic range extent using the EPA EMAP hexagonal grid.
- 3) Assemble a database of habitat relationships complete with literature citations for each species being modeled.
- 4) Obtain all possible GIS coverages of features or conditions to which vertebrates can be associated.
- 5) Develop a Wildlife Habitat Relationship Model (WHRM) for each species according to the available coverages.
- 6) Output maps, review and refine.

We began the process by obtaining the Vertebrate Characterization Abstracts (VCA) from the North Carolina Natural Heritage Program (NCNHP) office in Raleigh, NC on April 21, 1999. This dataset included species' common and scientific names, element codes assigned by The Nature Conservancy (TNC), as well as a compilation of information on range, habitat associations, and taxonomy. These data tables were then imported into a Microsoft Access database and served as a starting point for our vertebrate database. Throughout the entire modeling process, we relied heavily on the VCA data along with several published volumes (Hamel 1992, LeGrand and Hall 1999, National Geographic Society 1987, Palmer and Braswell 1995, Peterson 1980, Webster et al. 1985, Whitaker and Hamilton 1998, Wilson 1995). Expert review also served as an integral element of the overall process as well. The names of reviewers who commented on the species list, known range, or modeling parameters are presented in [Appendix K](#).

North Carolina Species List

Starting with the list of species in the VCA database, we excluded species occurring only offshore and those occurring only as transients or accidentals. We also excluded migratory birds that occur only in the non-breeding season. We chose not to exclude introduced or exotic taxa that have become established populations.

Our draft species list was then sent out for expert review in the form of separate check lists for birds, mammals, reptiles, and amphibians. Reviewers were instructed as follows: "Species to be included in the NC Gap Analysis Project should be ones that are known to breed within the state and that are regularly occurring non-accidentals. Evidence of breeding in five out of the last 10 years is a suggested guideline. Species that are extinct or extirpated from the state should not be included" (adapted from Csuti and Crist 2000). Reviewers were also given the opportunity to add species to the list.

Reviewer comments were compiled, and after additional in-house review, species were added to or eliminated from the final list as necessary. At this time, we also eliminated subspecies and distinct population designations, treating these as part of the full species. Where there was disagreement or potential confusion about taxonomic status or name, we used the current species names recognized by TNC and the Association for Biodiversity Information (ABI 1999; ABI later became NatureServe). The final list of the 414 species modeled for North Carolina is included in [Appendix L](#).

Mapping Range Extent

For each of the species on our final species list, we produced range maps utilizing the global hexagonal grid system developed by the EPA for its EMAP program (White et al. 1992). Each 635-km² hexagonal unit was coded as follows for each species (adapted from Merrill et al. 1996):

- | | |
|----------------------|--|
| Absent (0) | The hexagon is believed to be outside of the normal range of the species. |
| Possible (1) | The species possibly occurs in the hexagon; likelihood of occurrence is thought to be between 10 and 80%. |
| Predicted (2) | The species is expected to occur in the hexagon with a likelihood of at least 80%. |
| Confirmed (3) | The species is confidently assumed (>95% certain) or known to occur through documented records. |
| Excluded (4) | The occurrence of the species within the hexagon was excluded after having previously been coded as either predicted or confirmed. |
| Historic (5) | The occurrence of the species within the hexagon was excluded due to range alteration. |

Initial range maps were produced from a VCA data table that indicated occurrence and migratory status of species within North Carolina's 100 counties. After an in-house review of county ranges, county occurrence tables were converted to EPA EMAP hexagon occurrence tables using an algorithm developed by S. Williams. Another in-house review was conducted to ensure that the hexagon occurrence tables were reasonable. For example, the Neuse River waterdog (*Necturus lewisi*) occurs only within the Neuse River drainage basin, but a straight conversion from counties to hexagons would result in many hexagons entirely outside of the Neuse River basin being coded as

possible. Similarly, shorebird and sea turtle datasets needed revision due to their ranges being constrained to shoreline.

To improve the reliability of our range maps, we used locality records from several sources, including North Carolina Natural Heritage Program (NHNHP), North Carolina State Museum of Natural Sciences (NCSM), North Carolina Wildlife Resources Commission (NCWRC), and others. These point data records were used to score each hexagon for occurrence status (see above).

The final step in developing known range data was the solicitation and inclusion of expert review from knowledgeable biologists throughout the state (see List of Expert Reviewers, [Appendix K](#)). See [Appendix M](#) for a more complete description of the development of known range data for North Carolina.

Wildlife Habitat Relationships

Textual descriptions of wildlife habitat relationships were documented in the vertebrate database and were comprised from a thorough literature review. Each species was assigned a use/nonuse value for each of 67 land cover map units. In addition to land cover, other habitat affinities that could be spatially represented were also documented for each species. These included:

- 1) Elevation constrains
- 2) Waterbody (streams, rivers, ponds, etc.) affinities
- 3) Wetland affinities
- 4) Water type (fresh, brackish, salt)
- 5) Road density/urban land cover avoidance
- 6) Edge habitat (forest/open land cover ecotone)

A relational database of the habitat affinities and a series of custom designed interface [forms](#) within that were used throughout the project to manage the information. That database was used to generate the final species reports, which include a summary of the taxonomic information, the full list of citations used, as well as the habitat affinity parameters.

Distribution Modeling

The modeling process was conducted with raster data via ESRI Arc/Info GRID software. Extensive use of Arc Macro Language scripting (AML) was used to automate, standardize, and document the modeling process (see [Appendix N](#)). In addition to the AML scripts, several information matrices were exported from the vertebrate database and contained species-specific information on known range, land cover map unit use, and other spatial constraints described previously (see [Appendices O, P, Q and R](#)). These tables served as lookup references for the modeling and resulted in a highly efficient process that allowed rapid updating of large numbers of models as input data layers were refined. A total of 21 spatial data layers were used in the habitat distribution modeling. A complete list of the datasets used and the variable incorporated in the modeling are

included in [Table 3.1](#). Each dataset and the associated metadata are provided as a supplement to this report (available at gapanalysis.nbio.gov).

**Table 3.1. GIS data used in the animal species modeling process.
Refer to the metadata accompanying the digital data for more complete descriptions.**

Data Coverage Name	AML Variable Name	Source of Acquisition	Description
LC_NCGAP	VEGMAP	NC-GAP product	NC-GAP land cover
Range_30	RANGE	NC-GAP product, EPA EMAP Program	Known range based on EPA EMAP hexagons
Huc14_NC_SP	HUC14	NC Center for Geographic Information Analysis	14 digit hydrologic units
NC_LC_Mask	MODELMASK	NC-GAP	The modeling extent
OBX_Mask_On	OBX_ON	NC-GAP	Mask of the outerbanks (buffered)
OBX_Mask_Off	OBX_OFF	NC-GAP	Mask excluding the outerbanks (buffered)
Avoid_30	AVOIDGRD	NC-GAP, NC Department of Transportation	Human dominated areas derived from road density and urban landcover
Elev_30	ELEVGRD	USGS DEM	Elevation
Edge_30	EDGEGRD	NC-GAP	Buffered edge habitat derived from NC-GAP land cover
DSoil_30	DSOILGRD	NCRCS-SSURGO	Detailed soils
NonWater	NONWATER	NC-GAP	Nonwater coverytype derived from NC-GAP land cover
OpenWaterBuff	HYDROBUF	USGS DLG	Distances from and into open water features (50m, 200m, 500m, 5km)
WetVegBuff	WETVEGBUF	USGS DLG	Distances from and into wet vegetation (50m, 200m, 500m)
WaterType	WATERTYPE	NC-GAP	Water salinity (fresh, brackish or salt water/marsh)
OW_Fresh	OW_FRESH	USGS DLG, NC-GAP	Distances from and into open fresh water features (50m, 200m, 500m, 5km)
OW_Brack	OW_BRACK	USGS DLG, NC-GAP	Distances from and into open brackish water features (50m, 200m, 500m, 5km)
OW_Salt	OW_SALT	USGS DLG, NC-GAP	Distances from and into open saltwater features (50m, 200m, 500m, 5km)
WV_BrkSalt	WV_BRKSALT	USGS DLG, NC-GAP	Distances from and into brackish/saltwater wet vegetation (50m, 200m, 500m)
WV_Fresh	WV_FRESH	USGS DLG, NC-GAP	Distances from and into fresh water wet vegetation (50m, 200m, 500m)
IntFor_30		NC-GAP	Contiguous interior forest greater than 200m from a nonforested cover type
MHBuf		NC Center for Geographic Information Analysis	Distances from major hydrological features (1km, 3km, 5km)

After reviewing the model outputs, it was decided that 10 species required additional specialized modeling (see Table 3.2). Only one species (*Cryptobranchus alleganiensis*, Hellbender) was modeled entirely outside of the automated model process.

Table 3.2. Species with additional modeling parameters that were not implemented by AML scripting.

ElCode	Scientific Name	Common Name	Modeling Parameters
AAAAC01010	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER	Streams in Mississippi drainages that have > 70% forested land cover (within 14 digit huc). Also restricted to elevations less than 2800'.
AAAAD03130	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER	Restricted to 50m stream buffer below 4500' elevation.
AAAAD03140	DESMOGNATHUS OCOEE	OCOEE SALAMANDER	Restricted to 50m stream buffer below 4500' elevation.
AAAAD03150	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER	Restricted to 50m stream buffer below 4500' elevation.
AAAAD05020	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER	Restricted to the following drainages: Cheoah (Graham Co., NC), Tellico (Monroe Co., TN), Fighting Creek (Sevier Co., TN).
ABNKC01010	PANDION HALIAETUS	OSPREY	Restricted to 1 km buffer of large bodies of water (rivers, resevoirs, bays).
ABNKC10010	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	Restricted to 3 km buffer of large bodies of water (rivers, resevoirs, bays).
AMAJA01020	CANIS RUFUS	RED WOLF	Restricted to the Albemarle-Pamlico pennisula.
AMATA01010	EQUUS CABALLUS	FERAL HORSE	Restricted to select outerbanks islands.
ARAAG01030	APALONE SPINIFERA	SPINY SOFTSHELL	Restricted to 1 km buffer of large bodies of water (rivers, resevoirs, bays).

Our distribution models were developed to identify where a species has a reasonable possibility of occurring. This was done by creating a known range, identifying the utilized land cover map units within, and applying any other spatial constraints for the species in question (e.g., elevation constraint, distance to open water). Appropriate habitat outside of the known range of the species were considered unavailable unless they were both contiguous with habitat within the known range and they were within an adjoining 14 digit hydrological unit (subwatershed). This allowed us to include contiguous patches of appropriate habitat for a limited distance outside of a known range before they were clipped (see Figures 3.1, 3.2, and 3.3).

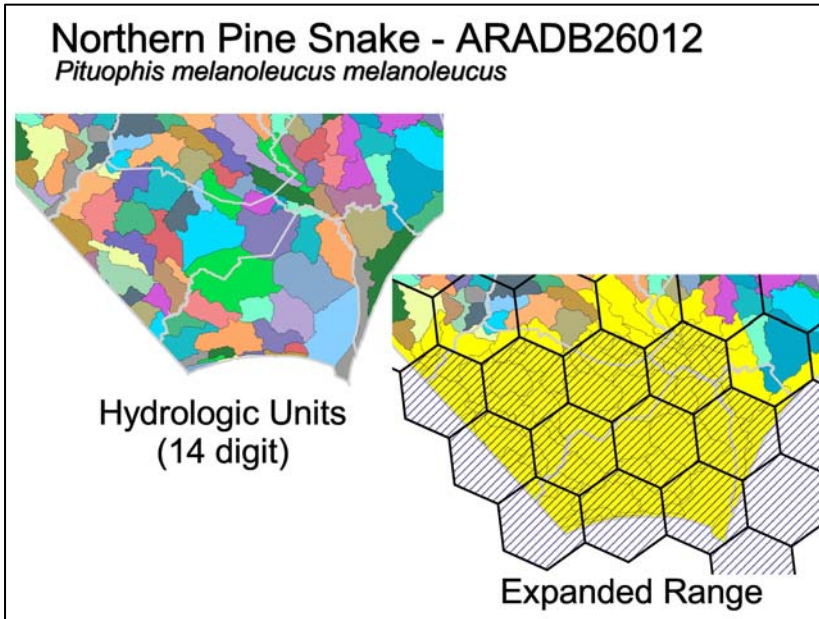


Figure 3.1. Known range extension of EMAP hexagons using 14 digit HUCs.

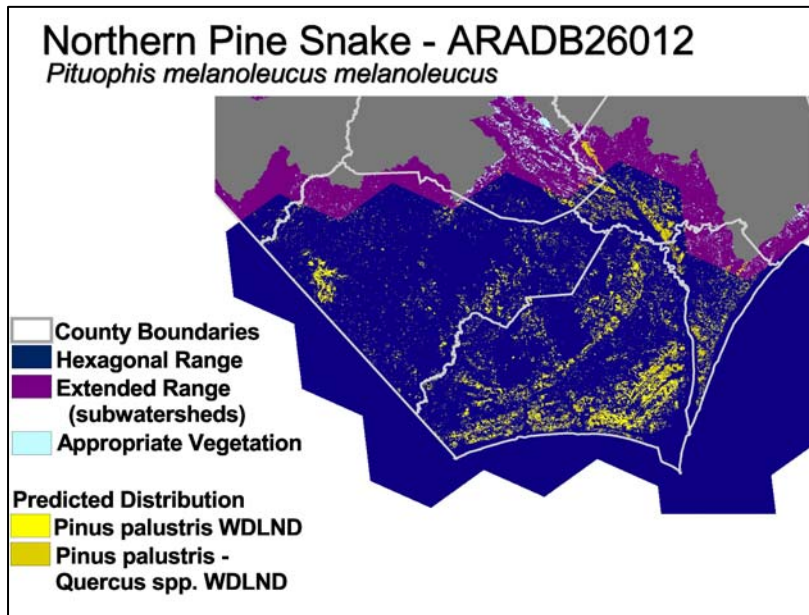


Figure 3.2. Selection of contiguous habitat patches.

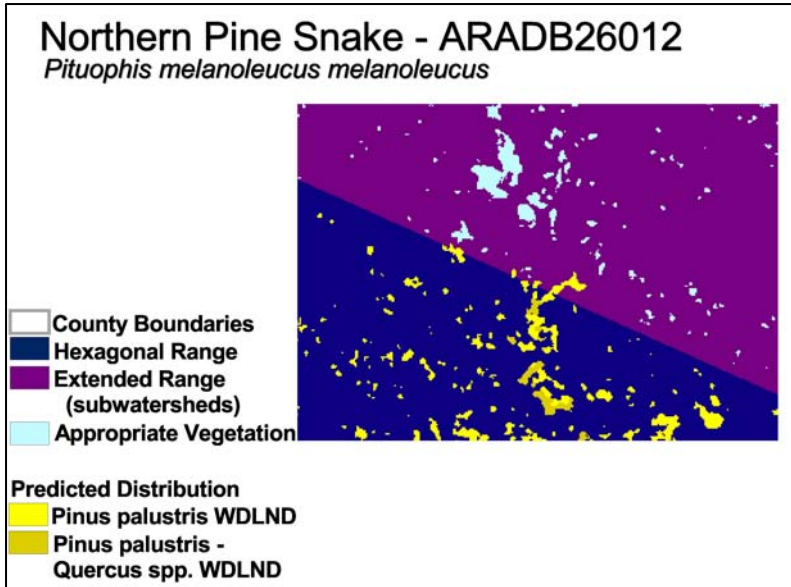


Figure 3.3. Detail of selected contiguous habitat patches.

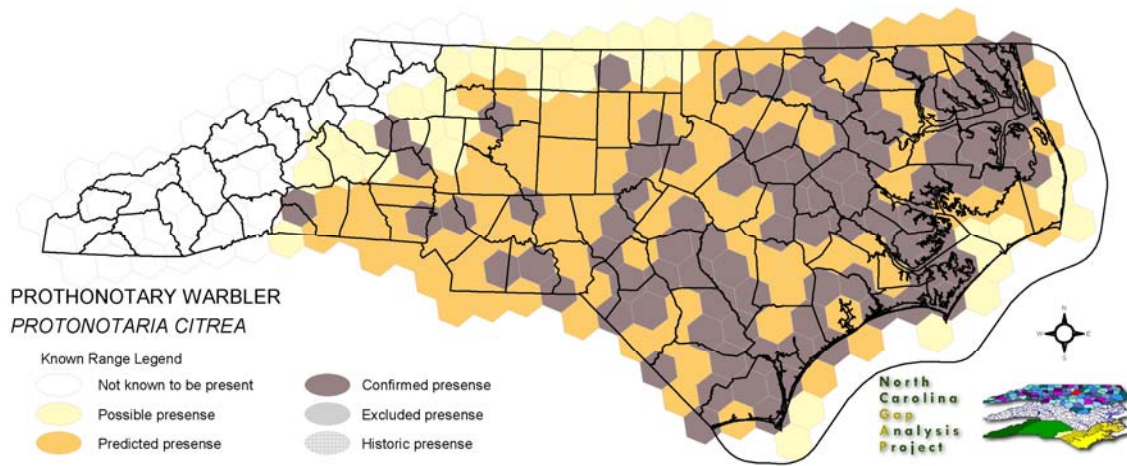
Results

For each of the 414 terrestrial vertebrate species modeled for this project, a species range and predicted distribution (presence/absence) map were created. [Appendix S](#) includes a complete species report for each species, including the following data.

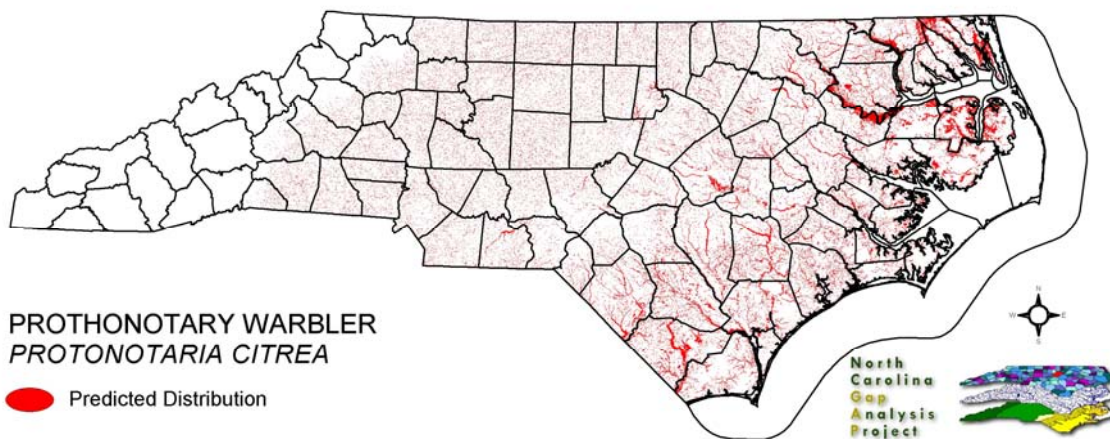
- Species taxonomic information
- Hexagon Range Map
- Predicted Distribution Map
- Statistics on where the species habitat is predicted relative to managed and protected lands
- A detailed habitat description
- The modeling parameters used for that species, including the land cover map units considered suitable habitat for that species model
- A list of citations used to develop the ranges and/or habitat affinity database

The hexagonal range ([Map 3.1](#)) and predicted distribution ([Map 3.2](#)) for prothonotary warbler (*Protonotaria citrea*) are provided here as an example of some of the data provided in the species reports. [Table 3.3](#) is an example of the list of the land cover map units from the habitat affinity database that were considered suitable habitat for the prothonotary warbler. For this species four additional spatial constraints were used for mapping the predicted distribution and are documented in the species specific report. The spatial constraints are:

- Exclude all area outside of known range,
- Exclude all land greater than 50 meters from an open water feature,
- Exclude all land greater than 50 meters from wet vegetation, and
- Exclude brackish and salt water habitats.



Map 3.1. Hexagon distribution map for the prothonotary warbler (*Protonotaria citrea*). Included here as an example of the data available in the species reports included in [Appendix S](#).



Map 3.2. Predicted distribution map for the prothonotary warbler (*Protonotaria citrea*). Included here as an example of the data available in the species reports included in [Appendix S](#).

Table 3.3. List of occupied land cover map units for the prothonotary warbler (*Protonotaria citrea*). Included here are examples of the habitat affinity data included in the species specific reports.

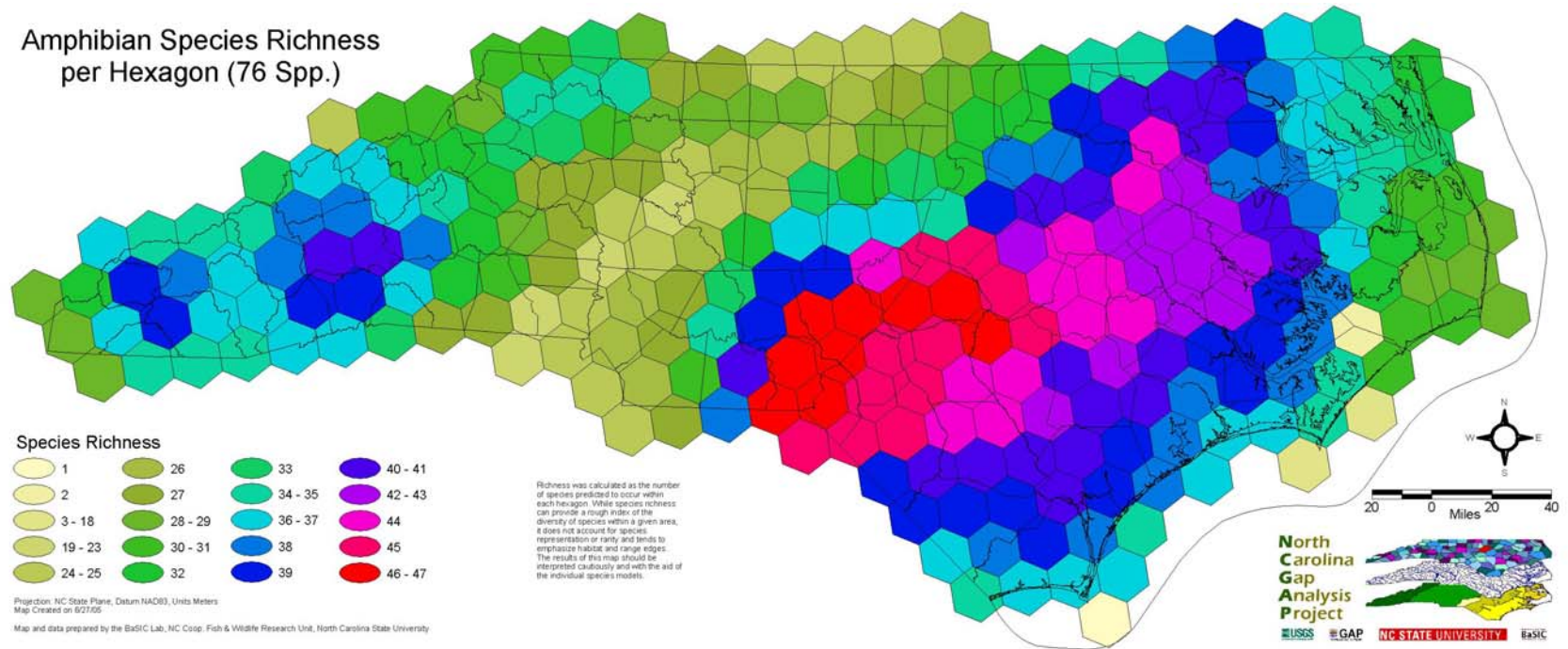
Code	Name	Description	NC Natural Heritage Program Equivalent
75	Tidal Swamp Forest	Swamp tupelo dominated forest with or without black tupelo and/or cypress trees. Restricted to the tidal zones in the coastal plain. May have inclusions of coastal red cedar woodlands.	Tidal cypress - gum swamp
173	Coastal Plain Riverbank Shrubs	Shrub dominated riverbanks, commonly dominated by willows and/or alders.	Sand and Mud Bar
50	Coastal Plain Mixed Bottomland Forests	Includes forests dominated by a variety of hardwood species, including sweetgum, cottonwood, red maple.	Coastal Plain Bottomland Hardwood (in part), Coastal Plain Levee Forest
49	Coastal Plain Oak Bottomland Forest	Bottomland forests dominated by deciduous oak alliances. Oaks represented can include swamp chestnut, cherrybark, willow, and/or overcup oak. Inclusions of loblolly pine temporarily flooded forests occur in patches. Hydrology is temporarily to seasonally flooded.	Coastal Plain Bottomland Hardwoods (in part) blackwater subtype, brownwater subtype
158	Coastal Plain Nonriverine Wet Flat Forests	Loblolly pine - Atlantic white-cedar - red maple - swamp tupelo saturated forests as well as forests dominated by loblolly, sweetgum, and red maple in non-riverine flats.	Non-riverine Wet Hardwood Forest
30	Cypress-Gum Floodplain Forests	Swamps dominated by black or swamp tupelo with or without Taxodium. Seasonally to semi-permanently flooded hydrology.	Cypress-Gum Swamps
78	Pond-Cypress - Gum Swamps, Savannas and Lakeshores	Cypress dominated swamps and lakeshores. Can include bays dominated by pond cypress or shorelines of coastal plain lakes with a narrow band of cypress.	Non-riverine Swamp Forest, Natural Lakeshores (in part)
385	Oak Bottomland Forest and Swamp Forest	The swamp chestnut oak, cherrybark oak, shumard oak and sweetgum alliance is one representative. Other alliances are dominated by water, willow, and overcup oaks. Swamp forests can be dominated by sweetgum, red maple, and black gum being dominant. Loblolly can occur in combination with sweetgum and red maple, or with tulip poplar. Includes saturated and semi- to permanently flooded forests in the mountains.	Piedmont/Mountain Bottomland Forest, Piedmont/Mountain Swamp Forest
267	Riverbank Shrublands	Riverside shrubs with temporarily flooded hydrologies. Found in the both the Mountains and Piedmont. Containing dominants such as smooth alder and a Carolina or black willows.	Sand and Mud Bar
269	Floodplain Wet Shrublands	Saturated shrublands of the Piedmont, includes buttonbush, swamp-loosestrife, decodon and alders.	Piedmont/Mountain Semipermanent Impoundment
230	Piedmont Mesic Forest	American Beech - Red Oak - White Oak Forests.	Mesic Mixed Hardwood
384	Piedmont/Mountain Mixed Bottomland Hardwood Forests	Includes temporarily to seasonally forests dominated by hardwood species. Hardwoods include sweetgum, red maple, sycamore, which co-occur in a mosaic of bottomland and levee positions. Includes alluvial hardwood forests in the mountains. Hemlock and white pine may occur as inclusions, but are generally mapped separately.	Piedmont/Mountain Alluvial Forest, Piedmont/Mountain Levee Forest
51	Deciduous Cultivated Plantation	Planted deciduous trees. Includes sweetgum and sycamore plantations.	No equivalent

Species Richness

GAP has often been associated with the mapping of species-rich areas or "hotspots." Richness maps identify where the same numbers of elements co-occur in the same geographic locations. For this project we created species richness maps both for the EMAP Hexagons, as well as for the 30 meter grid cells based on the land cover map. For display these maps are color coded or shaded in intensity from the highest numbers of co-occurrence (richness) to the lowest. While we continue to perform this useful pattern analysis, it is only one of many that may be conducted using the data. Richest areas may or may not indicate best conservation opportunities. They may occur in already protected areas or may represent mostly already protected species or those not at risk. Still, they are often a useful starting point to examine conservation opportunities in combination with other analyses described in this report's Introduction and in the Analysis section. We also feel they may be useful for other rewarding applications such as identifying places of interest for wildlife observation and study.

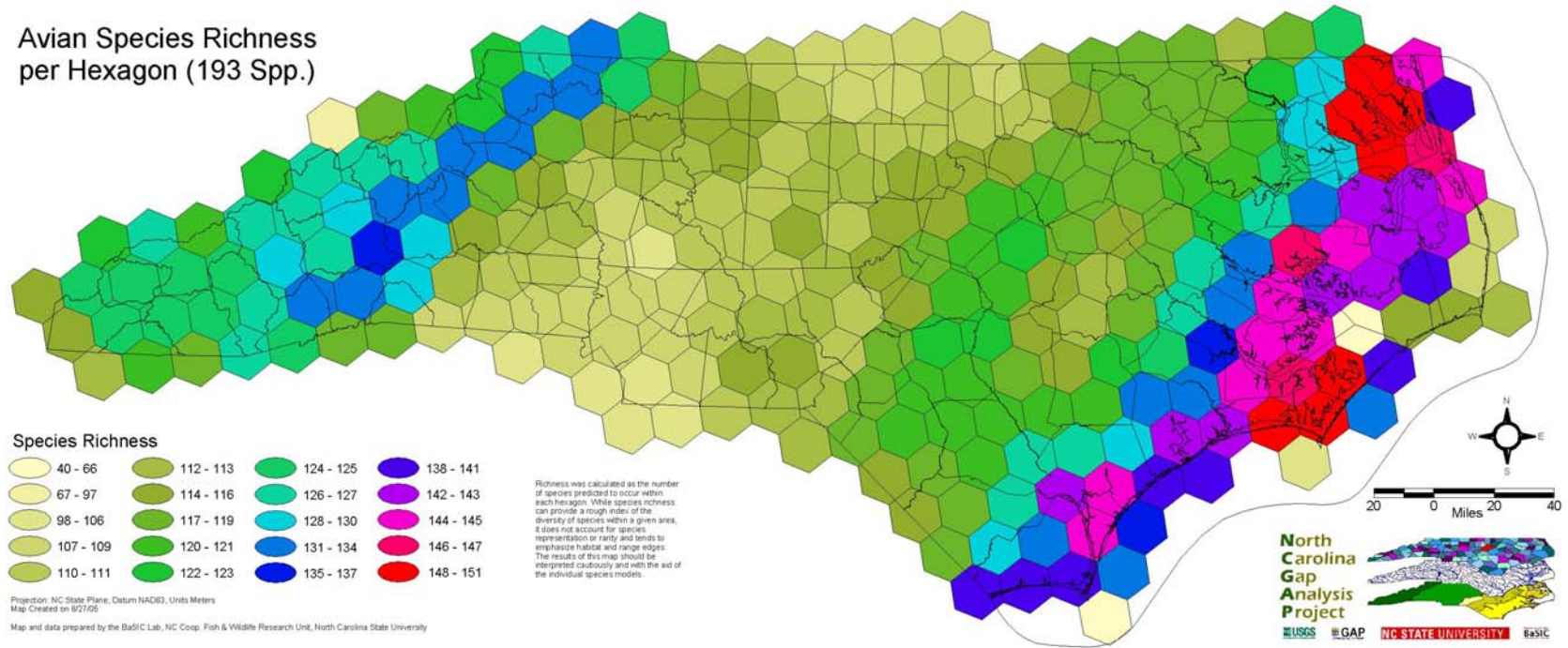
Hexagon and 30 meter cell based richness maps for the four taxa (amphibian, avian, mammal and reptiles) as well as overall species richness maps for the 414 species are included below ([Maps 3.3 – 3.12](#)).

Amphibian Species Richness per Hexagon (76 Spp.)



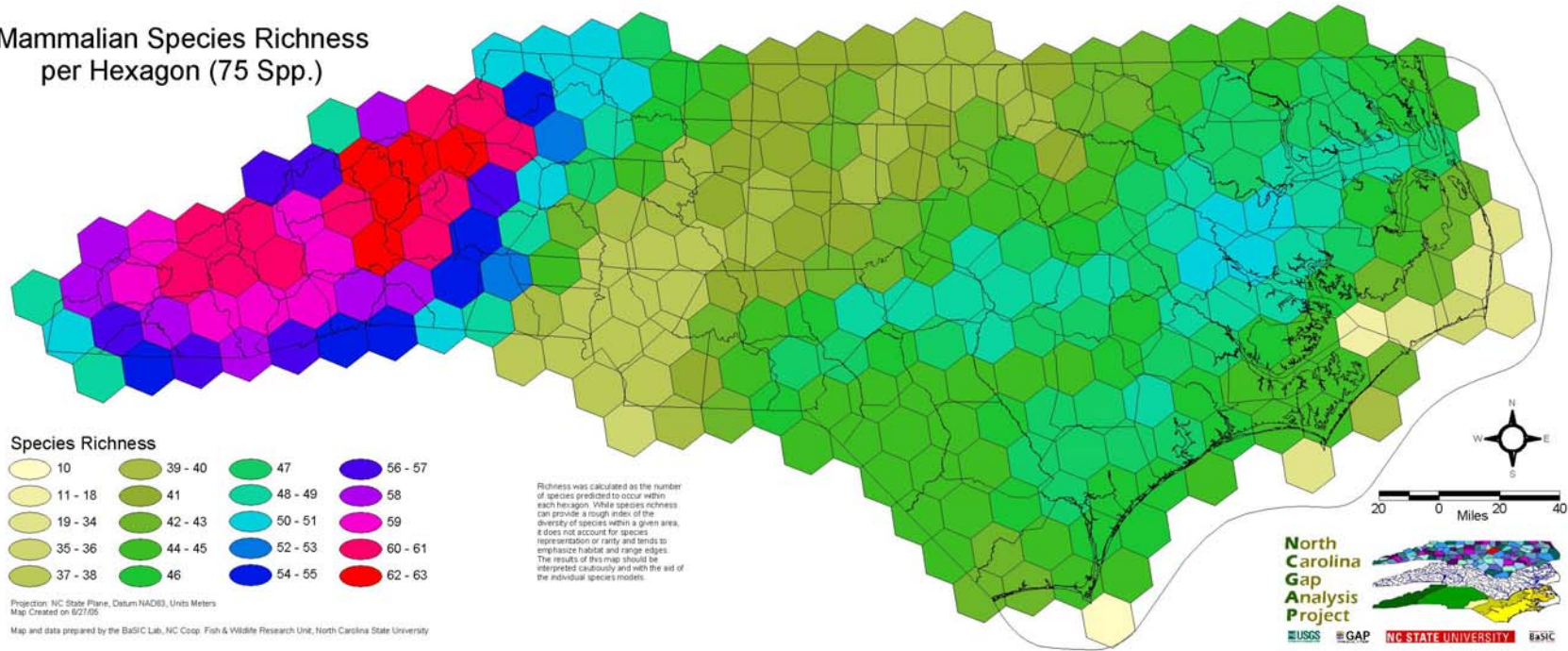
Map 3.3. Amphibian species richness based on the number of species predicted within each EMAP hexagon.

Avian Species Richness per Hexagon (193 Spp.)



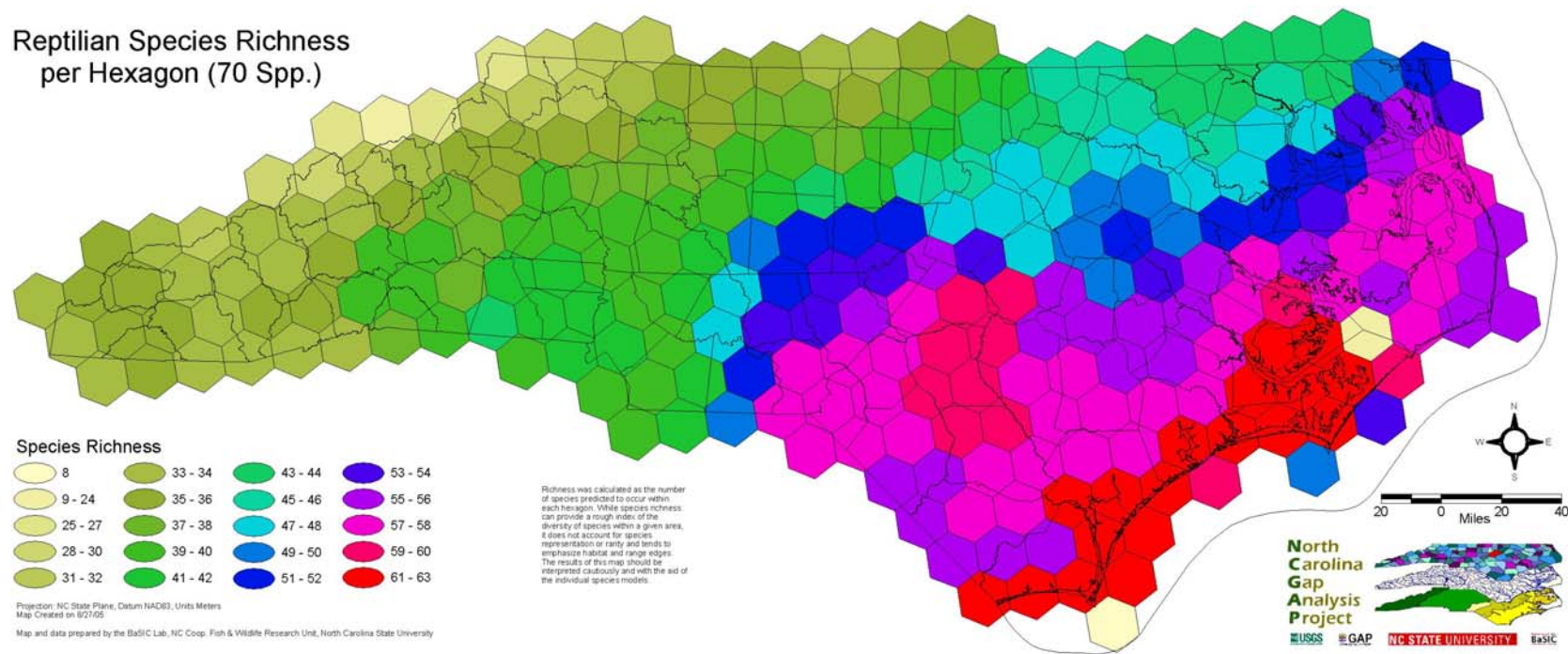
Map 3.4. Avian species richness based on the number of species predicted within each EMAP hexagon.

Mammalian Species Richness per Hexagon (75 Spp.)



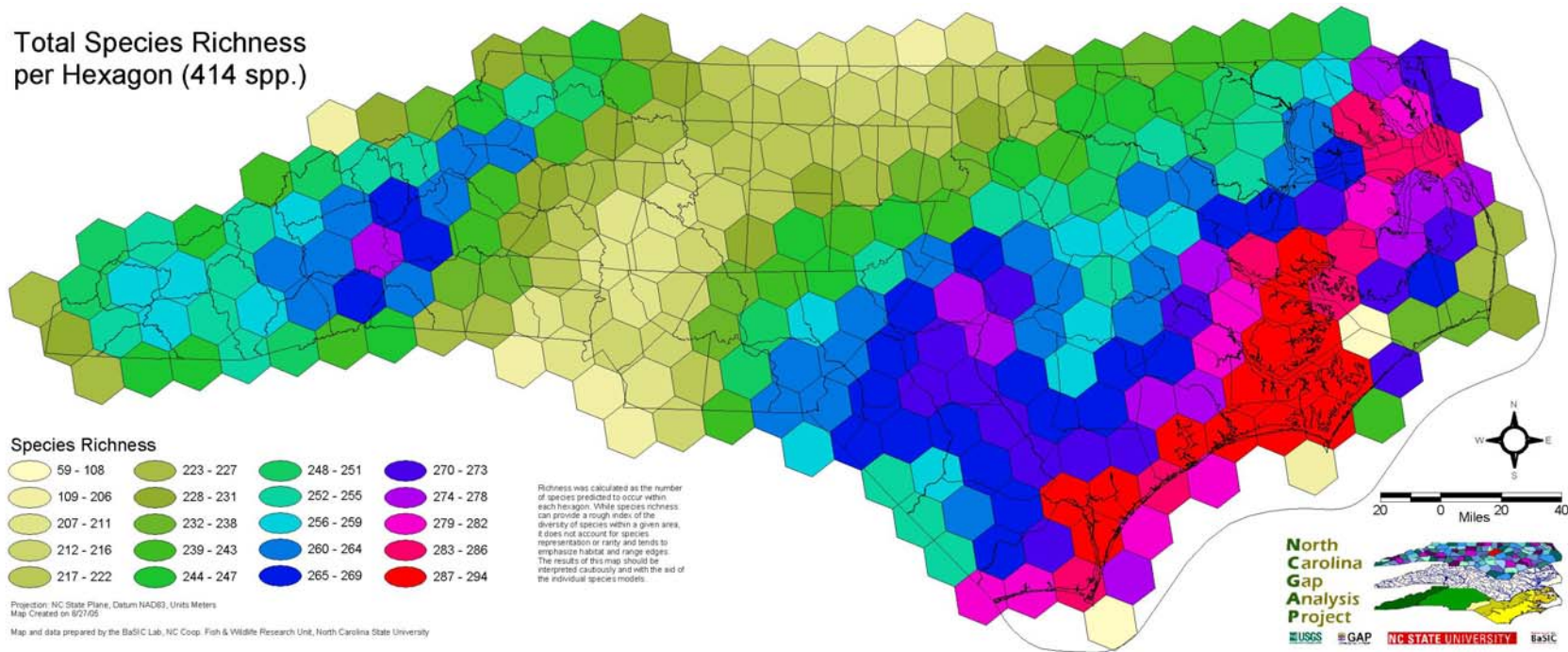
Map 3.5. Mammalian species richness based on the number of species predicted within each EMAP hexagon.

Reptilian Species Richness per Hexagon (70 Spp.)

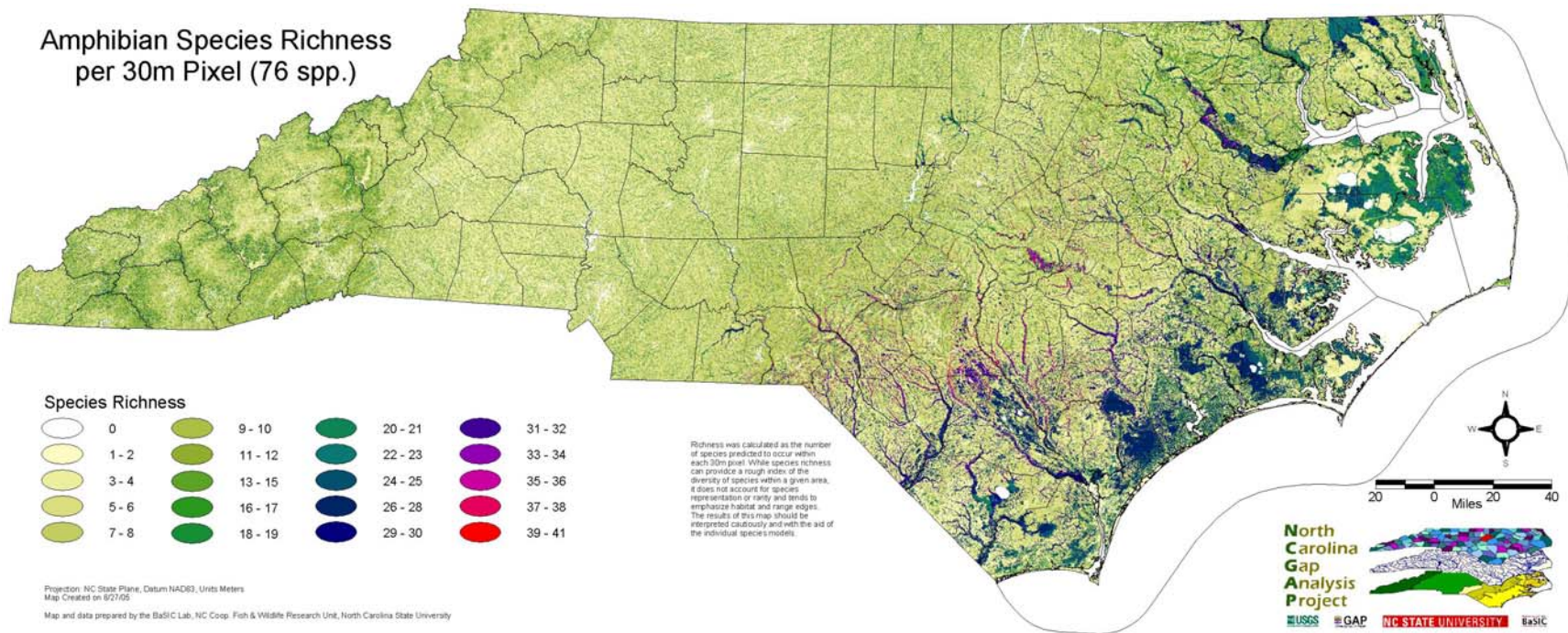


Map 3.6. Reptilian species richness based on the number of species predicted within each EMAP hexagon.

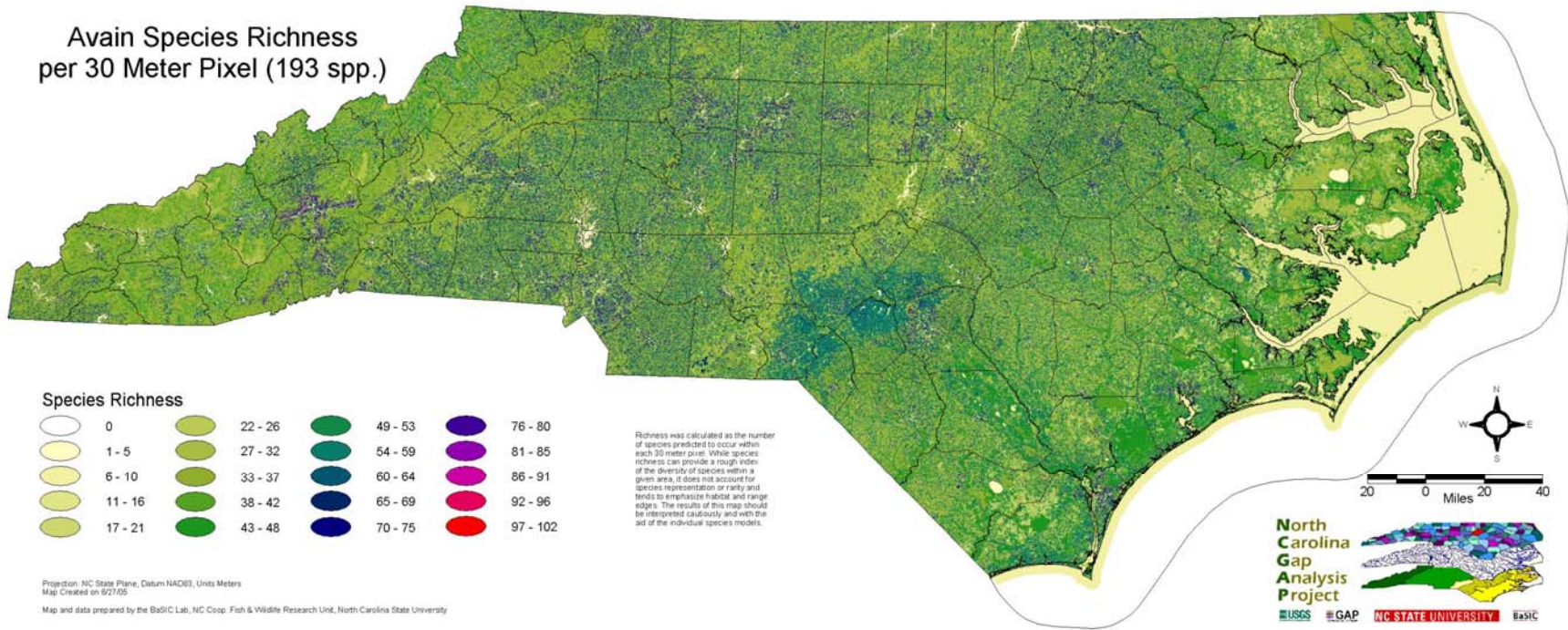
**Total Species Richness
per Hexagon (414 spp.)**



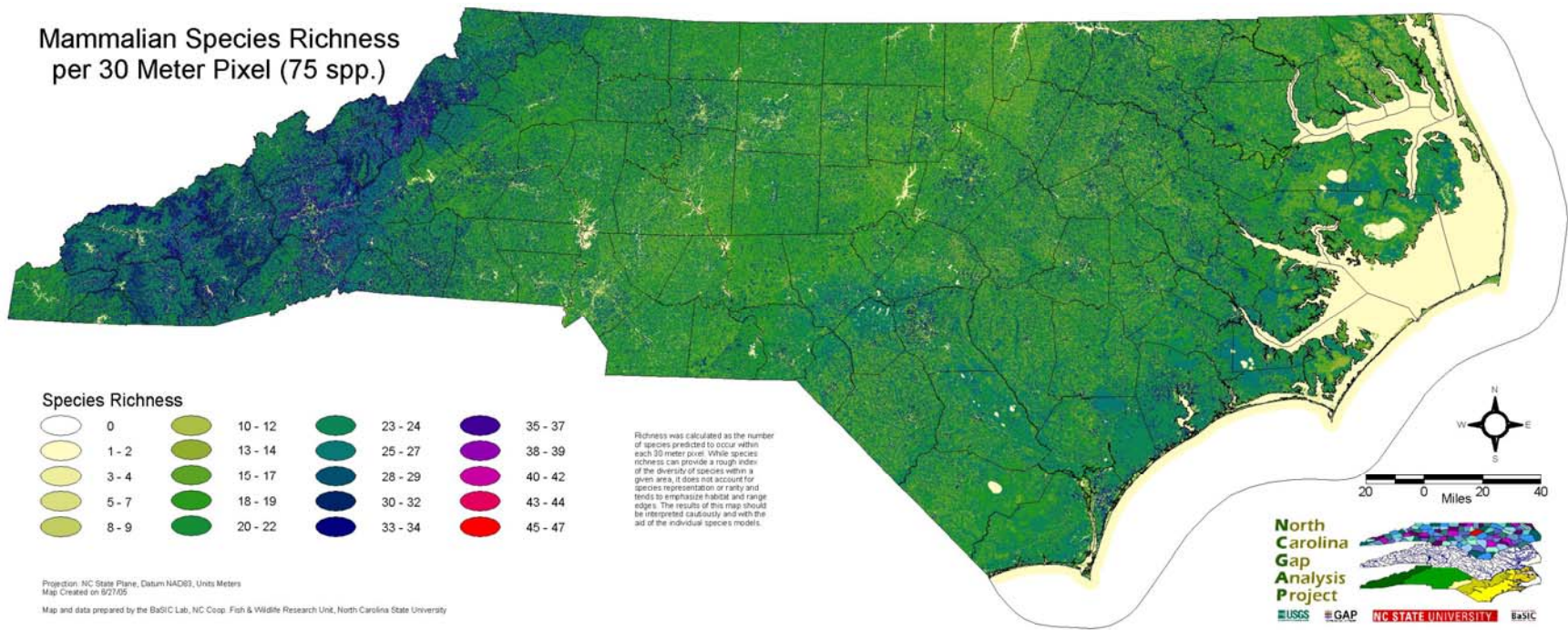
Map 3.7. Total species richness based on the number of species predicted within each EMAP hexagon.



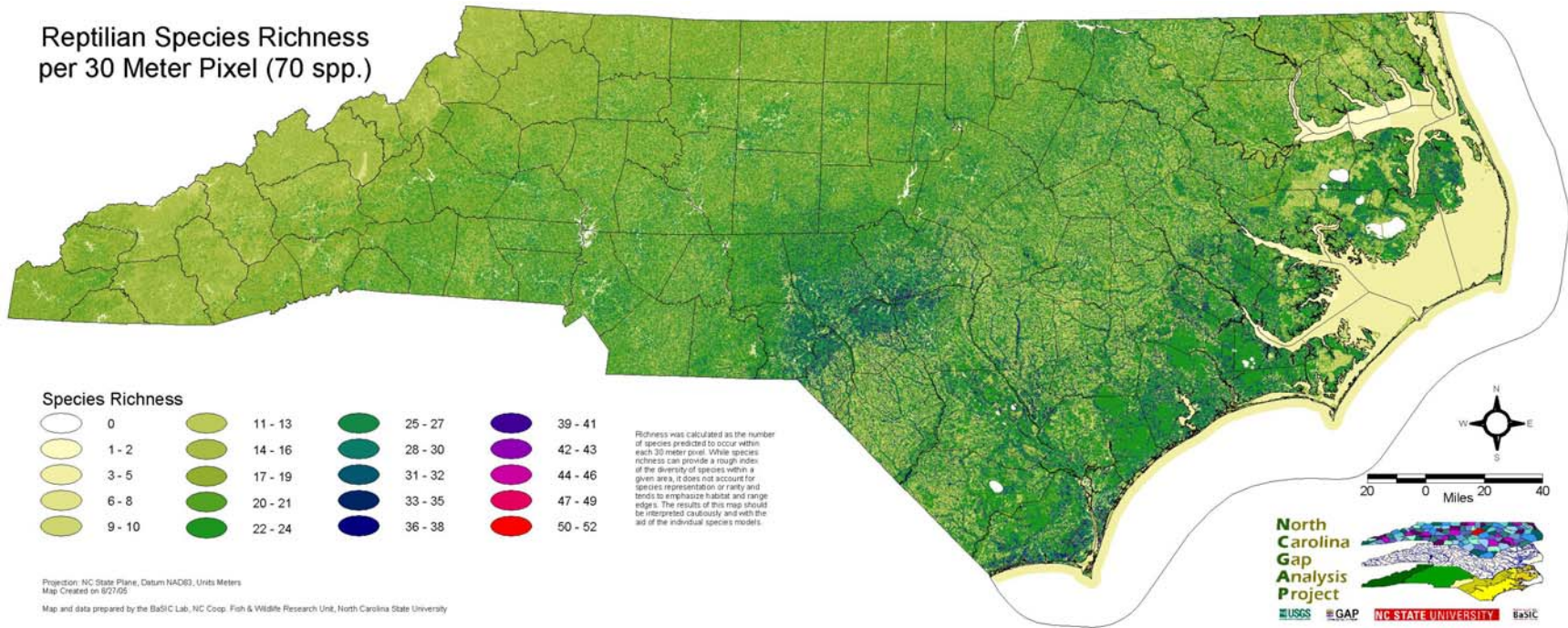
Map 3.8. Amphibian species richness based on the number of species predicted within each 30 meter grid cell.



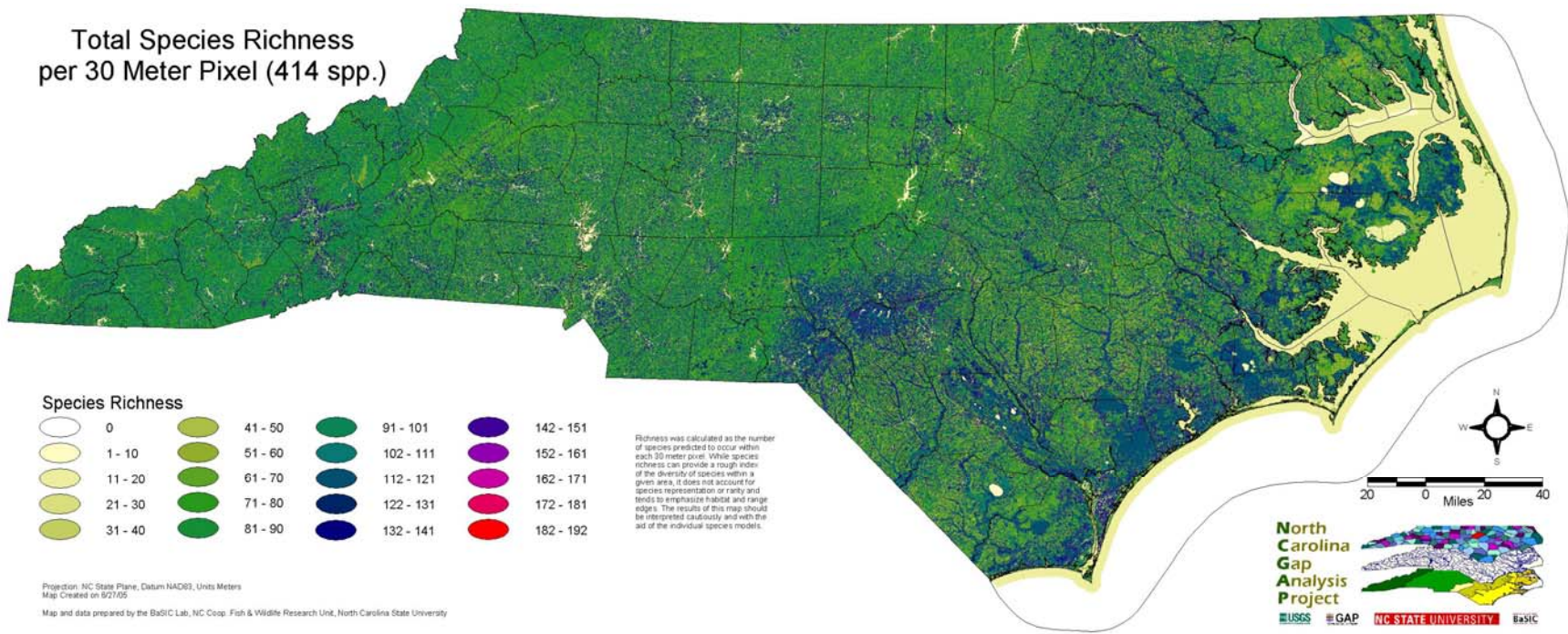
Map 3.9. Avian species richness based on the number of species predicted within each 30 meter grid cell.



Map 3.10. Mammalian species richness based on the number of species predicted within each 30 meter grid cell.



Map 3.11. Reptilian species richness based on the number of species predicted within each 30 meter grid cell.



Map 3.12. Total species richness based on the number of species predicted within each 30 meter grid cell.

Accuracy Assessment

Assessing the accuracy of the predicted vertebrate distributions is subject to many of the same problems as assessing land cover maps, as well as a host of more serious challenges related to both the behavioral aspects of species and the logistics of detecting them. These are described further in the Background section of the GAP Handbook on the national GAP home page. It is, however, necessary to provide some measure of confidence in the results of the gap analysis for species collectively, if not individually or by taxonomic group (comparison to stewardship and management status), and to allow users to judge the suitability of the distribution maps for their own uses. We, therefore, feel it is important to provide users with a statement about the accuracy of GAP-predicted vertebrate distributions within the limitations of available resources and practicalities of such an endeavor. We acknowledge that distribution maps are never finished products but are continually updated as new information is gathered. This reflects not only an improvement over the modeling process, but also the opportunity to map true changes in species distributions over time. However, we feel that assessing the accuracy of the current maps provides useful information about their reliability to potential users.

Our goal was to produce maps that predict distribution of terrestrial vertebrates and from that, total species richness and species content with an accuracy of 80% or higher. Failure to achieve this accuracy indicates the need to refine the data sets and models used for predicting distribution. There is a conscious effort in the GAP process, however, to err on the side of commission. In other words, to attribute species as possibly present when they are not. There are two primary reasons for doing so: first, few species have systematic, unbiased known ranges and we believe science is best served by identifying a greater potential for sampling and investigation than a conservative approach that may miss such opportunities; second, in conducting the analysis of conservation representation (see the Analysis section), we believe it most appropriate to identify a species that may need additional conservation attention that is then refuted by further investigation rather than identifying a species as sufficiently protected that is discovered not to be by its subsequent loss.

The methods for validating and assessing the accuracy of the vertebrate distribution maps are presented below along with the results.

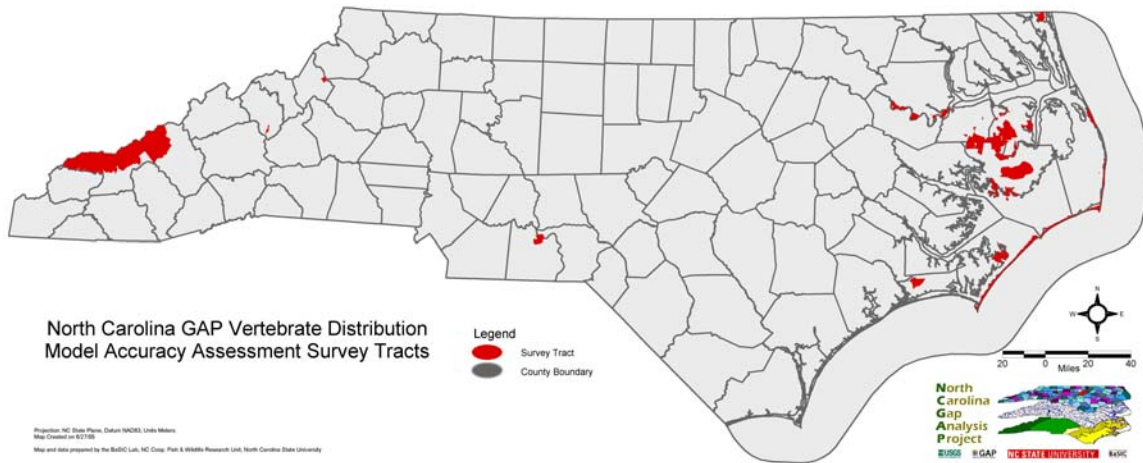
Accuracy Assessment Methods

In order to assess the accuracy of the vertebrate species distributions, a set of species lists from 11 sites within North Carolina were compiled ([Table 3.4](#)). [Map 3.13](#) shows the distribution of the managed areas represented in those lists. The species lists are the result of many years of observations at those locations. For three of those sites, the Great Smoky Mountain National Park, Mount Mitchell State Park, and Cape Lookout National Seashore all four taxa were represented. For an additional eight sites only bird species were reported.

Table 3.4. Specific sites from which species lists were used to assess the accuracy of the vertebrate distribution maps.

Three sites were used for all taxa and all 11 were used for assessing the avian models.

Site	Included taxa	Ecoregion
Great Smoky Mountain National Park	All	Mountains
Grandfather Mountain Preserve	Birds only	Mountains
Mount Mitchell State Park	All	Mountains
Coweeta Experimental Forest	Birds only	Mountains
Pee Dee National Wildlife Reserve	Birds only	Piedmont
Lake Mattamuskeet and Swan Quarter NWR	Birds only	Coastal Plain
Cedar Island NWR	Birds only	Coastal Plain
Cape Hatteras National Seashore	Birds only	Outer Banks
Cape Lookout National Seashore	All	Outer Banks
Mackay Island NWR	Birds only	Coastal Plain
Roanoke River NWR	Birds only	Coastal Plain



Map 3.13. Locations of the 11 sites used for the accuracy assessment of the vertebrate species predicted distributions.

Accuracy Assessment Results

The accuracy and error rates for each taxa are presented in [Table 3.5](#). Based on this analysis the birds had the highest percent correct at 79%. For all taxa omission errors were low, and commission errors were moderate, ranging from 16 to 30%. The percent correct, omission, and commission error for each of the individual species are included in [Appendix T](#). As the summary statistics indicate, the commission errors for the individual species models tend to be higher than omission, with a few exceptions. [Appendix U](#) includes the individual records used for comparing species lists to the models for each of the 11 sites.

Table 3.5. Accuracy assessments for the vertebrate species models by taxa.

Taxa	N Sites	N Species	Correct %	Omission Error %	Commission Error %
Amphibians	3	76	77	3	21
Birds	11	193	79	6	16
Mammals	3	75	64	3	32
Reptiles	3	70	69	1	30

Limitations and Discussion

The task of assessing species distributions is obviously limited by the availability of spatially referenced and complete inventories for all taxa. The lists used for this project are the compilation of years of observations and not throughout inventories, with the exception of the All Taxa Biodiversity Inventory in the Smoky Mountains National Park. The limited number of sites, the variability in the size of the sites, and the lack of data from the Piedmont limit the assessment as well. The strength of the lists is that they do represent years of observations and therefore represent a more complete list than would short-term studies. The fact that the reference lists represent large heterogeneous sites means the assessment is limited in information, the occurrence of any modeled habitat within the site is considered correct, even though the species on the list may be utilizing a different habitat within the site. While these limitations exist, the comparisons of the predicted distributions to these species lists does provide a useful tool for assessing the models and for identifying potential problems with the individual species models.

CHAPTER 4 - LAND STEWARDSHIP

Introduction

To fulfill the analytical mission of GAP, it is necessary to compare the mapped distribution of elements of biodiversity with their representation in different categories of land ownership and management. As will be explained in the Analysis section, these comparisons do not measure viability, but are a start to assessing the likelihood of future threat to a biotic element through habitat conversion--the primary cause of biodiversity decline. We use the term "stewardship" in place of "ownership" in recognition that legal ownership does not necessarily equate to the entity charged with management of the resource, and that the mix of ownership and managing entities is a complex and rapidly changing condition not suitably mapped by GAP. At the same time, it is necessary to distinguish between stewardship and management status in that a single category of land stewardship such as a national forest may contain several degrees of management for biodiversity.

The purpose of comparing biotic distribution with stewardship is to provide a method by which land stewards can assess their relative amount of responsibility for the management of a species or plant community and identify other stewards sharing that responsibility. This information can reveal opportunities for cooperative management of that resource, which directly supports the primary mission of GAP to provide objective, scientific information to decision makers and managers to make informed decisions regarding biodiversity. It also is not unlikely that a steward that has previously borne the major responsibility for managing a species may, through such analyses, identify a more equitable distribution of that responsibility. We emphasize, however, that GAP only identifies private land as a homogeneous category and does not differentiate individual tracts or owners, unless the information was provided voluntarily to recognize a long-term commitment to biodiversity maintenance.

After comparison to stewardship, it is also necessary to compare biotic occurrence to categories of management status. The purpose of this comparison is to identify the need for change in management status for the distribution of individual elements or areas containing high degrees of diversity. Such changes can be accomplished in many ways that do not affect the stewardship status. While it will eventually be desirable to identify specific management practices for each tract, and whether they are beneficial or harmful to each element, GAP currently uses a scale of 1 to 4 to denote relative degree of maintenance of biodiversity for each tract. A status of "1" denotes the highest, most permanent level of maintenance, and "4" represents the lowest level of biodiversity management, or unknown status. This is a highly subjective area, and we recognize a variety of limitations in our approach, although we maintain certain principles in assigning the status level. Our first principle is that land ownership is not the primary determinant in assigning status. The second principle is that while data are imperfect, and all land is subject to changes in ownership and management, we can use the intent of a land steward as evidenced by legal and institutional factors to assign status. In other words, if a land steward institutes a program backed by legal and

institutional arrangements that are intended for permanent biodiversity maintenance, we use that as the guide for assigning status.

The characteristics used to determine status are as follows:

- Permanence of protection from conversion of natural land cover to unnatural (human-induced barren, exotic-dominated, arrested succession).
- Relative amount of the tract managed for natural cover.
- Inclusiveness of the management, i.e., single feature or species versus all biota.
- Type of management and degree that it is mandated through legal and institutional arrangements.

The four status categories can generally be defined as follows (after Scott et al. 1993, Edwards et al. 1995, Crist et al. 1995):

Status 1: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a natural state within which disturbance events (of natural type, frequency, and intensity) are allowed to proceed without interference or are mimicked through management.

Status 2: An area having permanent protection from conversion of natural land cover and a mandated management plan in operation to maintain a primarily natural state, but which may receive use or management practices that degrade the quality of existing natural communities.

Status 3: An area having permanent protection from conversion of natural land cover for the majority of the area, but subject to extractive uses of either a broad, low-intensity type or localized intense type. It also confers protection to federally listed endangered and threatened species throughout the area.

Status 4: Lack of irrevocable easement or mandate to prevent conversion of natural habitat types to anthropogenic habitat types. Allows for intensive use throughout the tract. Also includes those tracts for which the existence of such restrictions or sufficient information to establish a higher status is unknown.

Mapping Standards

Land units had to satisfy several criteria to be included in our maps and analyses. First, isolated tracts must have been at least 40 acres, as suggested in the National GAP standards. Smaller tracts were included if they were contiguous with or were disjunct portions of protected management land units meeting this minimum size criterion. Additionally, only tracts determined to have a Management Status >4 based on the previously mentioned factors were included as distinct, identified entities. Finally, we included only land management units with clearly defined boundaries, which had been provided by a cooperating agency, Non-Governmental Organization (NGO), or the North Carolina Center for Geographic Analysis (CGIA). The resulting map combines coverages from numerous sources and is

likely the most complete and detailed map currently available documenting land protection status in North Carolina.

Methods

Development of the Land Management Status layer involved an iterative process of compiling boundary information from digital files provided by cooperating agencies, verifying and completing the attribute information, and finally reviewing agency documentation or working directly with land stewards to compile the information necessary for assigning the land management status codes.

Stewardship Mapping

The starting point for our work was the NC Natural Heritage Program's (NHP) Managed Areas database and the corresponding ArcView shapefile. The shapefile was converted into an Arc/Info coverage, re-projected into the state plane projection (State Plane, Meters, Zone 3200, Nad83, GRS1980). Sliver polygons were removed and inside polygons representing private in-holdings labeled as such in Arc/Edit and assigned a status code of 4. Corresponding data from the NHP's Managed Areas database were imported into a similarly structured Access database with records representing each of the managed areas in the coverage being maintained. The attribute information and associated data from the Access database were reviewed and compiled for each polygon in the coverage. Updated boundaries provided by individual agencies such as the North Carolina Wildlife Resources Commission (WRC), Division of Coastal Management (DCM), Division of Parks and Recreation (DPR), U.S. Forest Service (USFS), and U.S. Fish and Wildlife Service (USFWS) were incorporated. The primary data sources used in creating our Stewardship Map and database are listed in [Table 4.1](#). Owning agencies' boundaries typically took precedence over conflicting boundaries provided by other sources. In the majority of cases, boundary differences we observed between source files could be attributed to the continual refinement of boundaries by the managing agencies.

Larger units were further divided into distinct land management units whenever we could reliably identify a subunit that might be assigned a higher status due to greater levels of biodiversity protection. To facilitate updates and changes, we maintained existing subunits from source files, even if there currently were no differences in management practices, ownership, or management status.

A final update was done with addition of parcels provided in the Lands Managed for Conservation and Open Space database developed by CGIA (CGIA 2001). Located in the Governor's Office of State Planning, CGIA is the primary state agency charged with coordinating geographic data in North Carolina. CGIA administers the North Carolina Corporate Geographic Database, which combines data from local, state, and federal government agencies as well as NGOs and the private sector. We accepted updated or new data for inclusion after careful review of each polygon. It is important to note that only land management units that met our previously stated requirements for inclusion in our Land Management Stewardship Layer were incorporated into the layer. Publicly held land, permanent easements, and voluntarily provided private conservation lands were included in

the database and coverage. Unidentified or otherwise questionable land units that could not be verified through research, units with suspect boundaries, and units determined to be lacking in permanent protection of biodiversity at Status levels 1-3 as put forth in GAP standards were not explicitly included in the Stewardship layer. All lands not identified as Status 3 or greater were assigned the background value, Status 4.

Table 4.1. Data sources for the land ownership, boundary, and management attributes used for the North Carolina Land Management Stewardship database.

SOURCE	DATA OBTAINED	SCALE
N.C. Botanical Garden	NCBG properties (Stillhouse Bottom, Mason Farm, etc.).	1:24,000
N.C. Center for Geographic Information and Analysis (NCCGIA)	Lands Managed for Conservation and Open Space	various
Federal Land Ownership*	Federal lands	
Ft. Bragg U.S. Army Base*	Ft. Bragg military base boundaries	
Johnston County Community College*	Howell Woods Environmental Learning Center	
Clean Water Management Trust Fund*	Properties protected through CWMTF grants	
Conservation Tax Credit Program*	Properties protected through the CTC Program	
Office of Legislative & Intergovernmental Affairs*	Conservation Tax Credit Properties	
The Conservation Fund*	Land Trust Conservation Properties	
Shoreline*	County and shoreline boundaries	
Triangle J Council of Governments*	"Green Space" database properties	
The Nature Conservancy*	Roanoke River-TNC/GA. Pacific partnership property	
U.S. Army Corps of Engineers*	U.S. Army Corps reservoirs, lakes, and surrounding land boundaries	
N.C. Division of Coastal Management	N.C. Coastal Reserve Program lands.	1:24,000
N.C. Division of Parks & Recreation	State parks, recreation, and natural areas	1:100,000
N.C. Natural Heritage Program	Areas identified by the NHP that provide protection for natural diversity	1:24,000
N.C. State Property Office	State owned complexes	1:24,000
N.C. State University - Forestry	School Forest boundaries	
N.C. Wildlife Resources Commission	Gamelands and Wildlife Resources lands	1:100,000
Orange Water and Sewer Authority	Orange County watershed protection	1:24,000
U.S. Fish and Wildlife Service	Wildlife refuge and conservation easements	1:24,000
U.S. Forest Service	National forest boundaries	1:100,000
U.S. National Park Service	NPS property boundaries	
* Included in data obtained from CGIA		

Water polygons surrounded by Status 3 or above lands were separated so we could exclude open water from some of our analyses. For the reservoirs, a boundary to distinguish open water from the land was developed using the 1:24,000 hydrography data layer distributed by CGIA. Water polygons for larger lakes within public lands, such as Lake Mattamuskeet, Lake Phelps, White Lake and others, were already available in the digital source files.

Management Status Categorization

Determination of management status levels for land units required obtaining reliable information about management policies and practices. To avoid inconsistency or bias, management status designations were assigned by NC-GAP personnel in all cases with the help of a dichotomous key (see [Appendix V](#)). A simplified flow chart (see [Figure 4.1](#)) illustrates the basic criteria used to determine these status levels. Whenever possible or practical, managers were contacted by phone or email and asked to provide information, which enabled NC-GAP personnel to assign appropriate statuses. A questionnaire (see [Appendix W](#)) was sent to many property managers who had previously agreed to complete them. Judging from feedback received, we determined that this questionnaire was often more appropriate for larger land units managed by government agencies and was perceived as cumbersome by stewards with numerous small properties, such as land trusts. In these situations, stewards were typically informed of the type of information needed (e.g., land and vegetative community descriptions, management practices and policies, public access and activities, conservation easement restrictions) for NC-GAP to make status assessments and asked to volunteer such information.

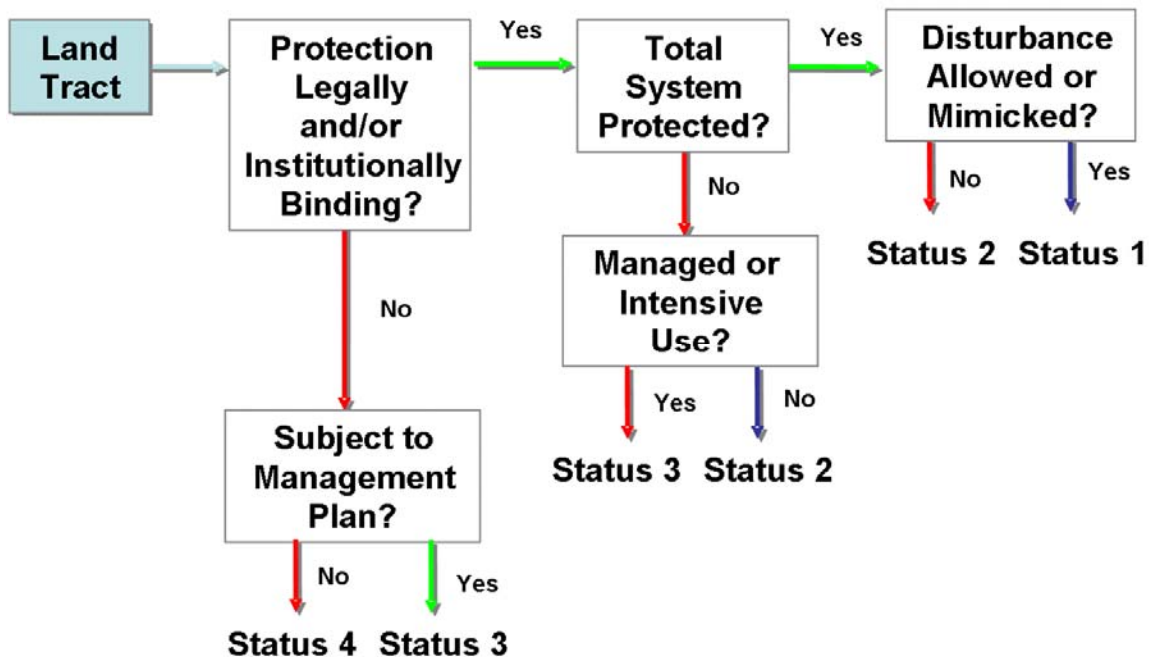


Figure 4.1. Flow diagram used for assigning Land Management Status Codes.

In many cases, particularly on state and federal properties, uniform management policies resulted in similar status assessments on properties throughout the state. However, NC-GAP looked at site-specific management policies or activities within each land management unit to fine-tune status assessments. At the Federal level, USFS and USFWS lands designated as Wilderness Areas received Status 1 designations based on the management plans and the agency mandates for those areas. Multiple-use USFS land without special protective

designations was typically assigned Status 3 due to large-scale harvesting operations that are often conducted. At the State Government level, land units identified as NHP Dedicated Nature Preserves (DNPs) were typically considered Status 1 due to biodiversity protection mandates associated with this designation. Conservation properties acquired or protected through funding from the N.C. Clean Water Management Trust Fund (CWMTF) were initially considered Status 2 due to management limitations imposed by this program. Occasionally, information was discovered that resulted in downgrading these assignments. For example, fire suppression or extensive timber salvage operations would have taken a Status 1 DNP site down to Status 2, while the application of sewage effluent would have taken a Status 2 CWMTF site down to a Status 3. At the U.S. National Park Service (USNPS) Shackleford Banks Wilderness Area, management policy calls for the protection of a herd of non-native wild horses, resulting in a less-protective Status 2 assignment rather than Status 1. North Carolina DPR policies governing natural resource management on their properties often resulted in Status 1 designations in less developed State Natural Areas, but Status 2 designations in non-DNP portions of State Parks and State Recreation Areas due to large areas (>5%) often set aside for recreational use.

On some occasions, sufficient information was available on stewardship agency websites that enabled status assessments to be made. In such situations, general management information was taken into consideration, and corroborating or supplemental information was often requested from land managers. This was the case with numerous land trusts, whose websites often provided ownership, vegetation types, management activities and goals, public access, and initial property acquisition information. In some situations, complete management plans for land management units were available on the steward's websites. In situations where additional information was needed to choose between two designations (i.e., Status 2 or Status 3) and land stewards could not be reached by phone or email to provide clarification, the lower, less protective (Status 3) designation was assigned. Citations and the date of establishment for the Status 1 and 2 lands are included (see [Appendix X](#)). A summary of the key variables in the land management status database, including managing entity (Division/Unit), the ownership and management codes, as well as the status and area represented by each are included in a non-spatial format for the reader (see [Appendix Y](#)).

Ownership/Stewardship Categorization

NC-GAP used the National GAP classification system to categorize land ownership and stewardship. However, we found it necessary to add several management and ownership categories to the national list in order to accommodate a greater variety of management circumstances (see [Appendix Z](#)). For example, the State of North Carolina has designated (and protected) state lakes. Other regionally important distinctive categories added to the national list included city and county watershed protection projects, State Recreation Areas, National Estuarine Research Reserves, and USFWS Wilderness Areas and USFWS managed conservation easements.

Results

We mapped 2089 polygons of protected (Status 1, 2, or 3) lands in North Carolina. The managed lands represent 10.07% of the state land base with most of them being federally owned and managed (see [Map 4.1](#), [Figure 4.2](#)). The majority of protected areas in the state are in public ownership and management (see [Map 4.2](#); [Table 4.2](#)). Federal land dominates the protected lands at the Status 1 and 3 categories. The National Park Service land, including the Great Smoky Mountains National Park and USFS Wilderness Areas make up the majority of the Status 1 federal lands. USFS Multiple Use Areas make up the majority of the Status 3 lands. Federal Department of Defense properties make up 21% of Status 3 lands. These land management units often provide excellent protection for biodiversity or endangered species (i.e., red-cockaded woodpecker and associated species at Fort Bragg), but received a lower status due to large-scale disturbances during military training exercises. Land management units considered to be Status 2 are more evenly distributed between State and Federal agencies. Status 2 state lands are dominated by State Parks and WRC Game Lands, while Status 2 Federal lands are mostly USFWS Wildlife Refuges.

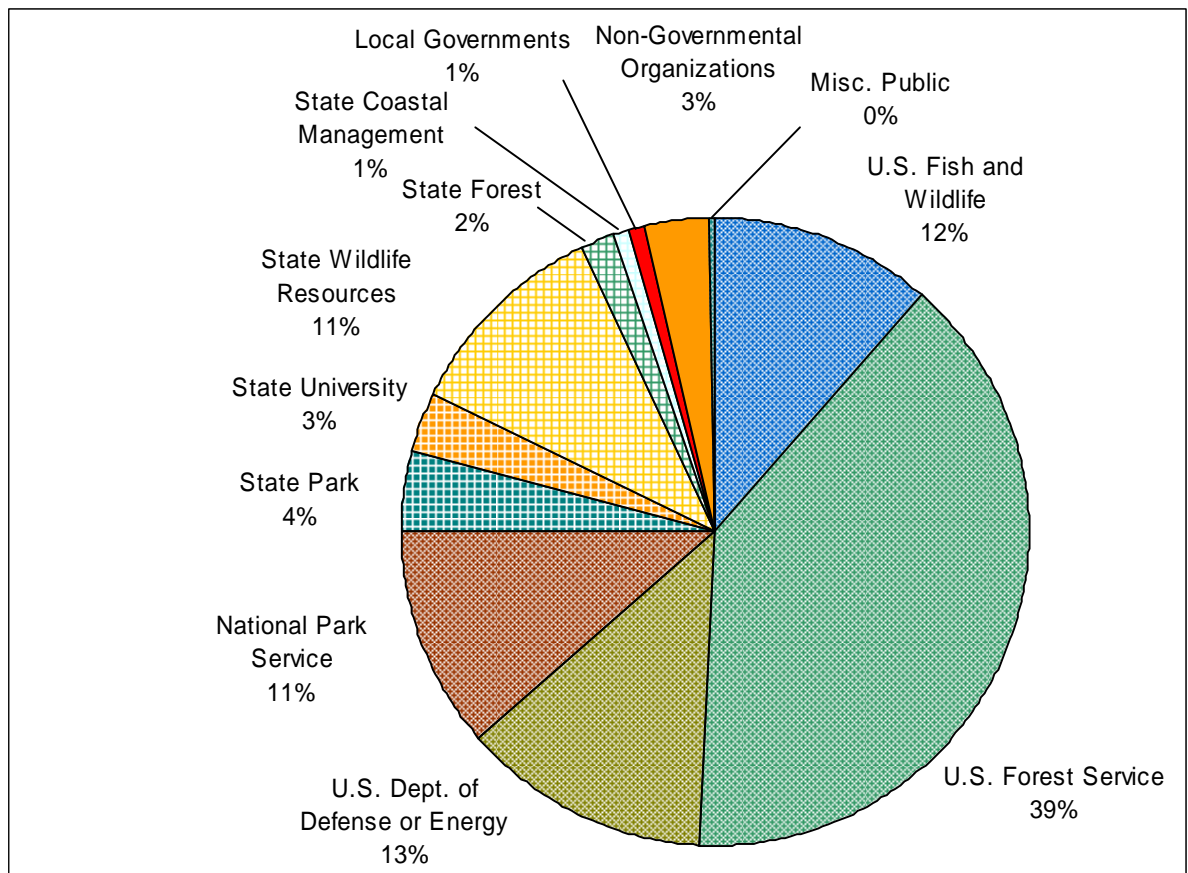
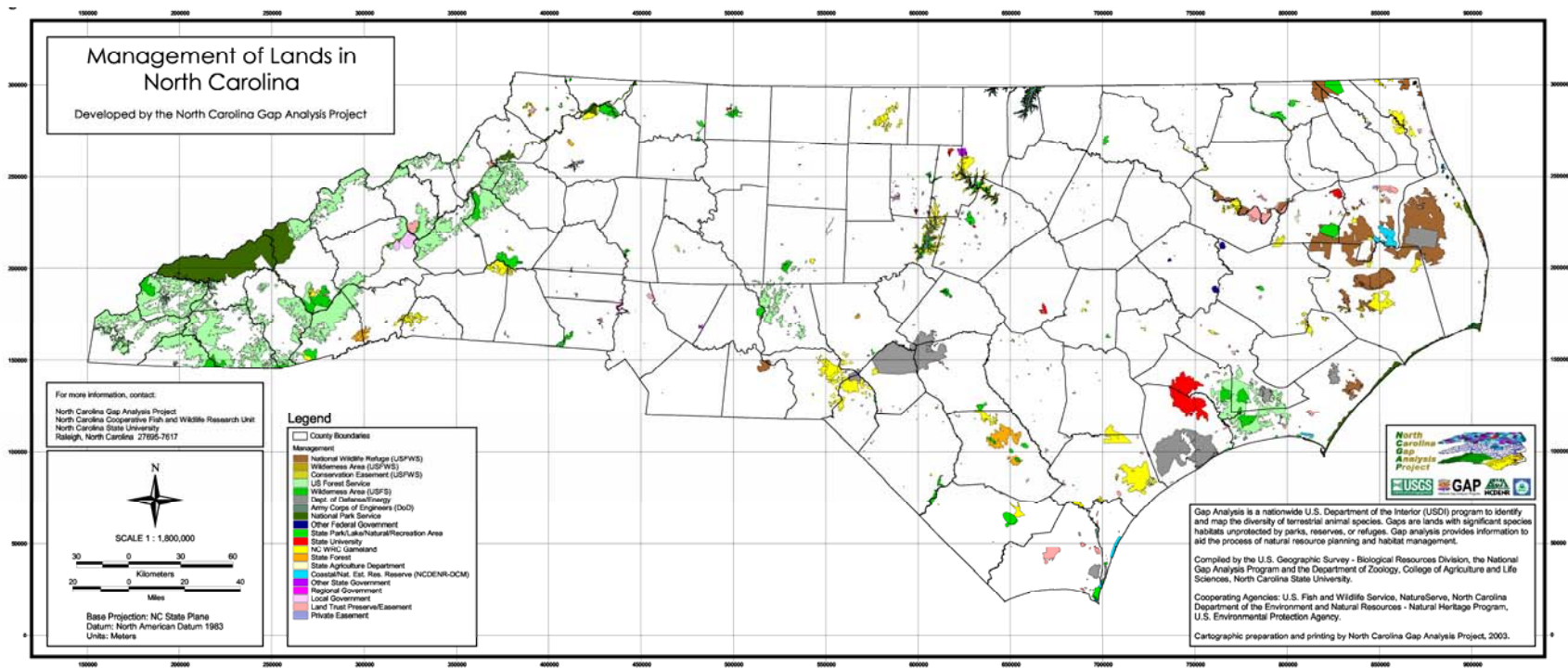
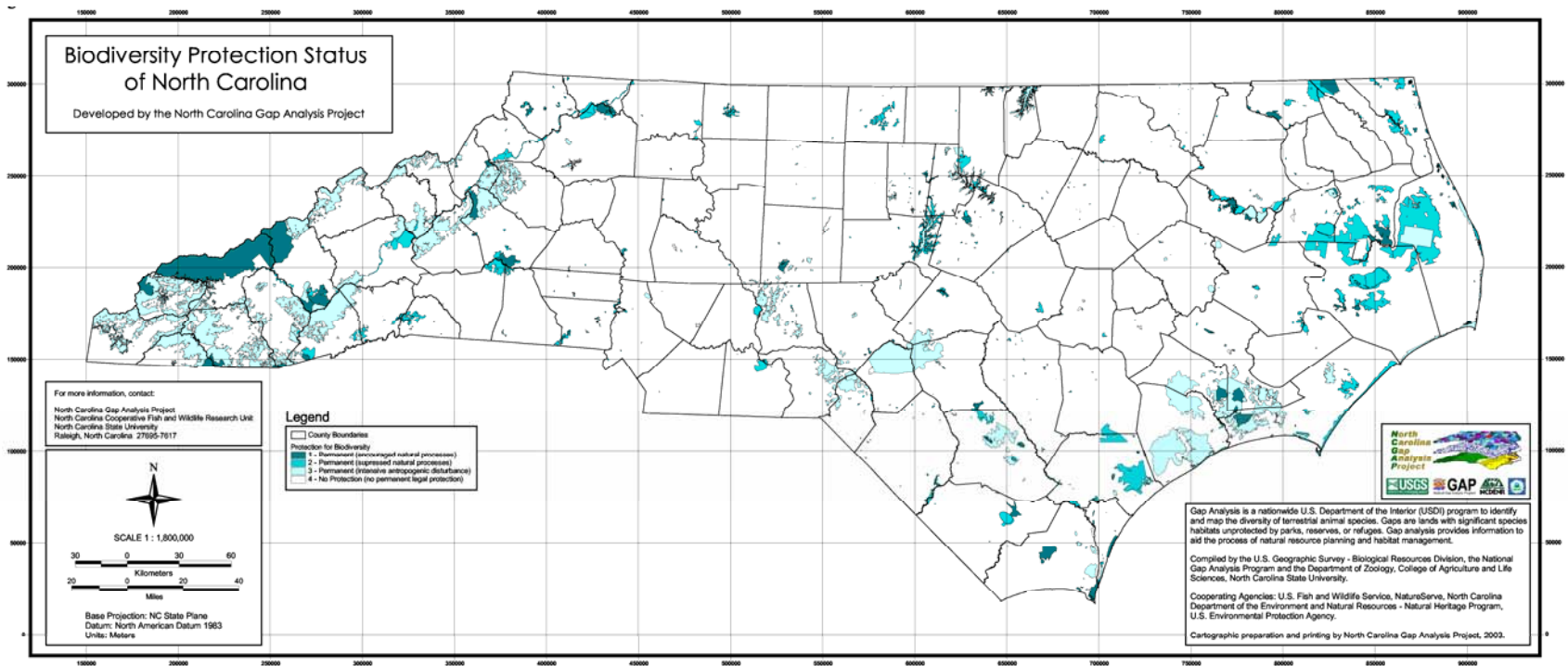


Figure 4.2. Percentage of the Managed Lands by Management Entity.



Map 4.1. Land management in North Carolina.



Map 4.2. Gap status of North Carolina managed lands.

While our analysis shows contributions to biodiversity protection from land trusts and other NGOs make up 2.9% of total protected lands, the actual contribution is certain to be higher. Attempts to document such conservation lands are far from complete. There are more than 30 land trusts in North Carolina with various levels of mapping support, land management and property information, and mechanisms for sharing information. Though numerous land trust properties, some quite large, were included on the CGIA *Lands Managed for Open Space* coverage, we were unable to gather sufficient information to incorporate all of them in our coverage. Still, more than 20,000 ha of highly protected land (Status 1 and 2) and close to 37,000 ha of protected land (Status 1, 2, and 3) land trust lands have been documented. Slightly over half (51%) of the land trust lands in the database are managed by The Nature Conservancy (TNC). Though not all land trust holdings are geared toward biodiversity protection, many are, and the contributions of these organizations will likely be understated in such analyses without a significant effort to gather this information.

The largest areas of protected land are located in the eastern and western edges of the state, where accessibility and agricultural productivity are often limited by excessive wetness or mountainous terrain. When we considered the distribution of managed lands in relation to Bailey's ecological provinces, the Piedmont contains less than 9% (107,061 ha) of all protected lands (1,271,639 ha) and contributes less than 1% (11,807 ha) of the Status 1 lands statewide (see [Figure 4.3](#)). In the Coastal Plain ecoregion of eastern North Carolina, protected areas are mostly USFWS Wildlife Refuges, USDOD military bases, and the Croatan National Forest. In the mountainous west, protected areas are dominated by the Nantahala and Pisgah National forests and the Great Smoky Mountains National Park. The only large protected areas in the Piedmont area of central North Carolina are upland U.S. Army Corps of Engineers lands surrounding man-made reservoirs and the highly fragmented Uwharrie National Forest. The lack of public lands in the Piedmont is to a large extent due to the long history of human settlement and the rapid rate of urbanization.

Table 4.2. Area and percentages of the Status 1, 2, and 3 lands reported for each managing agency.

Totals for general management categories are reported in bold above the agency specific statistics. Large water bodies (bays) were excluded from the calculation of the state's area (12,631,685 hectares). Status 1, 2, and 3 water polygons were excluded from the analysis as well.

Management Code	Managing Agency	Status1		Status 2		Status 3		Statewide Total	
		ha	%	ha	%	ha	%	ha	%
1000		154,876	1.21	170,356	1.34	630,623	4.94	955,855	7.57
1001	US Information Services National Wildlife Refuge	0	0	0	0	2,515	0.02	2,515	0.02
1301	(USFWS)	0	0	142,663	1.12	0	0	142,663	1.13
1303	Wilderness Area (USFWS)	1,876	0.01	0	0	0	0	1,876	0.01
1304	Conservation Easement (USFWS)	0	0	1,871	0.01	0	0	1,871	0.01
1400	US Forest Service	0	0	0	0	459,081	3.60	459,081	3.63
1412	Wilderness Area (USFS)	41,772	0.33	0	0	0	0	41,772	0.33
1500	Department of Defense or Energy	0	0	0	0	153,362	1.20	153,362	1.21
1550	Army Corps of Engineers(DoD)	0	0	0	0	7,833	0.06	7,833	0.06
1602	National Battlefield Park (NPS)	0	0	0	0	40	0.00	40	0.00
1606	National Historic Site (NPS)	0	0	0	0	253	0.00	253	0.00
1608	National Memorial (NPS)	0	0	0	0	171	0.00	171	0.00
1609	National Military Park (NPS)	0	0	0	0	87	0.00	87	0.00
1611	National Park (NPS)	111,228	0.87	0	0	0	0	111,228	0.88
1616	National Seashore (NPS)	0	0	5,196	0.04	7,281	0.06	12,477	0.10
1617	Wilderness Area (NPS)	0	0	653	0.01	0	0	653	0.01
1618	National Scenic By-way (NPS)	0	0	19,973	0.16	0	0	19,973	0.16
3000		47,031	0.37	130,961	1.03	87,967	0.69	265,958	2.11
3110	State Park State Natural Area or Natural	14,520	0.11	24,085	0.19	52	0.00	38,657	0.31
3120	Preserve	11,916	0.09	0	0	0	0	11,916	0.09
3140	State Recreation Area	0	0	4,205	0.03	0	0	4,205	0.03
3210	State University Research Area State University Natural Area/	0	0	274	0	34,887	0.27	35,161	0.28
3220	Preserve	917	0.01	1,319	0.01	260	0.00	2,496	0.02
3320	State Habitat Conservation Area	646	0.01	58	0	650	0.01	1,353	0.01
3330	State Game Land (NCWRC)	8,577	0.07	98,564	0.77	32,217	0.25	139,358	1.10

Management Code	Managing Agency	Status 1		Status 2		Status 3		Statewide Total	
		ha	%	ha	%	ha	%	ha	%
3400	State Forest	0	0	2,161	0.02	17,920	0.14	20,082	0.16
3500	State Department of Agriculture	1	0.00	0	0	0	0	1	0.00
3601	Coastal Reserve (NCDENR-DCM)	8,911	0.07	0	0	0	0	8,911	0.07
3603	National Estuarine Reserve (NCDENR-DCM)	1,300	0.01	294	0.00	0	0	1,595	0.01
3700	State Cultural Resources Department	0	0	0	0	62	0	62	0.00
3801	State DOT Mitigation Site	243	0.00	0	0	0	0	243	0.00
3900	Other State Land	0	0	0	0	1,919	0.02	1,919	0.02
4000		0	0	528	0	0	0	528	0.00
4100	Regional Government Lands	0	0	528	0.00	0	0	528	0.00
5000		35	0.00	9,476	0.07	2,599	0.02	12,110	0.10
5101	City Park	0	0	0	0.00	374	0.00	374	0.00
5102	City Watershed Protection	35	0.00	8,540	0.07	592	0.00	9,168	0.07
5201	County Park	0	0	519	0.00	376	0.00	895	0.01
5202	County Watershed Protection	0	0	416	0.00	1,258	0.01	1,674	0.01
6000		11,899	0.09	8,212	0.06	16,737	0.13	36,848	0.29
6100	Ecological Preserve (Audubon)	447	0.00	0	0.00	0	0	447	0.00
6200	Ecological Preserve/ Easement (Land Trust)	2,158	0.02	7,057	0.06	8,168	0.06	17,383	0.14
6301	Conservation Easement (TNC)	550	0.00	678	0.01	8,339	0.07	9,566	0.08
6302	Ecological Preserver (TNC)	8,701	0.07	307	0.00	230	0.00	9,238	0.07
6400	NC Botanical Garden Foundation	43	0.00	4	0.00	0	0	47	0.00
6500	NC Herpetological Society	0	0	113	0.00	0	0	113	0.00
6600	Archeological Society	0	0	8	0.00	0	0	8	0.00
6700	Non-governmental Organization – Other	0	0	45	0.00	0	0	45	0.00
7000		0	0	339	0.00	0	0	340	0.00
7400	Private Mitigation Bank	0	0	339	0.00	0	0	340	0.00

Management Code	Managing Agency	Status 1		Status 2		Status 3		Statewide Total	
		ha	%	ha	%	ha	%	ha	%
	Total	213,841	1.68	319,873	2.51	737,926	5.78	1,271,639	10.07

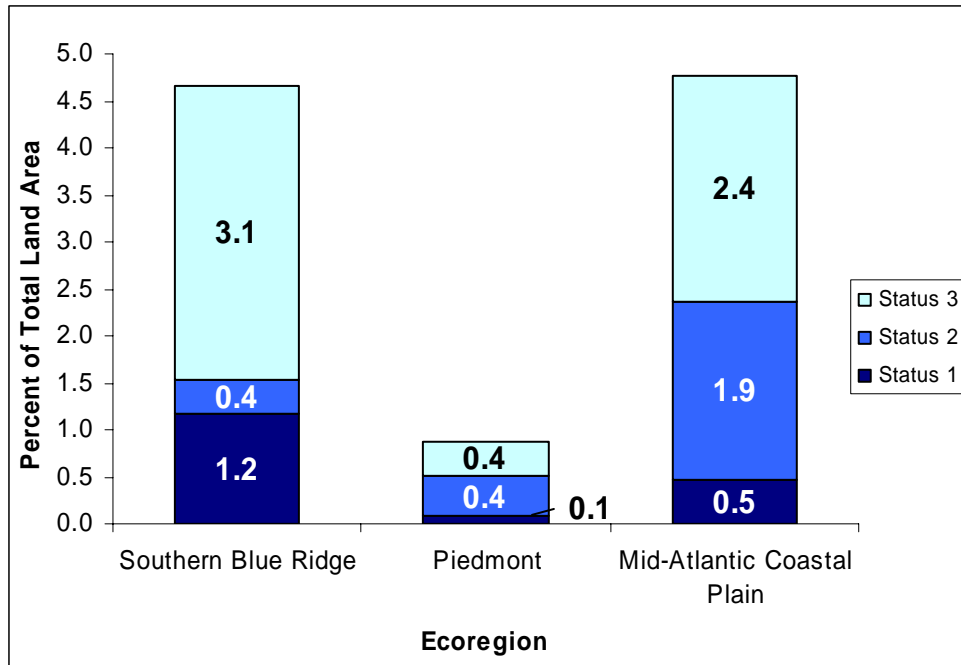


Figure 4.3. Status 1, 2, and 3 managed areas in the three Ecological Provinces of North Carolina. The percentages are based on a total of all land in North Carolina (12,631,685 hectares; Ecological Provinces based on Keys et al. 1995).

The managed lands network in the Coastal Plain and Piedmont of North Carolina tends to be a mosaic of ownerships, often tightly intermingled with common borders. In order to measure the distribution of managed lands relative to their potential for a conservation network, we used contiguous patches of managed lands to quantify the size distribution within the state. We conducted two analyses, in the first, only Status 1 and 2 lands were used in determining patch sizes for managed areas with shared boundaries. In the second, all three Status classes were used. In both cases approximately 70% of the contiguous managed areas were smaller than 100 hectares (see Figure 4.4). When the Status 3 lands are included in determining contiguous area, the most drastic increase in frequency occurs in the > 100,000 hectares class, which increases from one polygon to 22. The Great Smoky Mountains National Park is the only tract larger than 100,000 hectares included as Status 1 or 2 lands. When Status 3 lands are included in the analysis, the National Forests and military lands dramatically increase the number of large polygons.

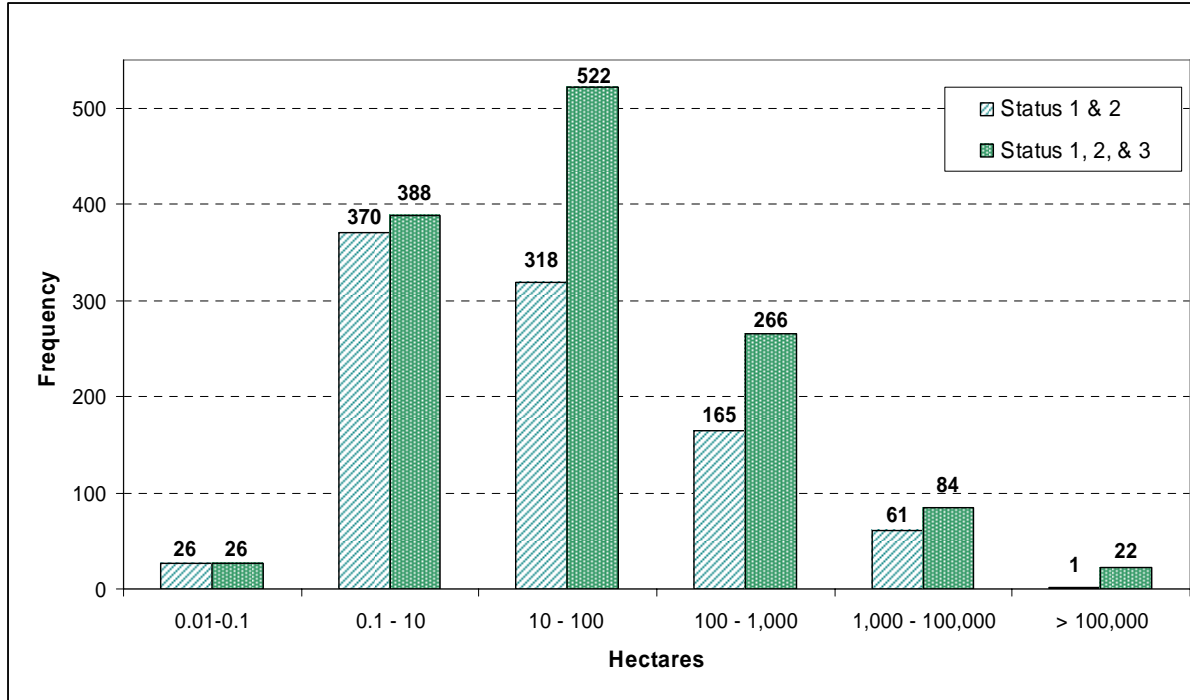


Figure 4.4. Size distribution of contiguous managed areas in North Carolina. Managed areas were considered contiguous if they shared a common boundary. The analysis was performed for Status 1 and 2 lands only and again with Status 1, 2, and 3 lands.

Limitations and Discussion

This map is a compilation of ownership maps provided by a variety of sources that are individually responsible for their own accuracies. It was created solely for the purpose of conducting the analyses described in this report and is not suitable for locating boundaries on the ground or determining precise area measurements of individual tracts. It was designed to show land protection and stewardship trends on the landscape level. This landscape approach is appropriate for assisting land stewards with determining the necessity of establishing, maintaining, or upgrading levels of biodiversity protection in particular regions of the state.

NC-GAP opted to include water in our stewardship layer but omitted large areas of water from our Stewardship and Gap analysis. In most cases, bodies of water were considered Status 4 and were excluded on that basis. However, there were a few protected State Lakes that received higher designations. We felt it was important to maintain that information for future analysis, but considered that, for a strict analysis of terrestrial vertebrate species protection, including large open water bodies would bias the analysis. For example, calculations of suitable habitat for a species such as bald eagle, which utilizes open water, could include large areas of water. However, that same area of water would bias a purely terrestrial species in the opposite direction. We chose not separate smaller bodies of water including streams, ponds, and small lakes from the land. Coastal

marshlands were included in the stewardship calculations as land if the coverage received from the owning or managing agency included them as a part of the management unit.

In several cases, protected land management units involved a complex consortium of landowners and stewards working together for the sake of natural resource conservation. NC-GAP separated these lands by owner and/or steward in situations where we obtained distinct land unit polygons identifying these entities. Where there was no such distinction provided, ownership and stewardship were assigned to the entity or entities deemed to have the largest ownership stake or the greatest stewardship role on the land unit. In cases involving conservation easements, the holder of the easement is considered to be the land management unit steward, as they have an active stake and responsibility in enforcing its terms. The only exceptions to this are land acquisitions funded by the State of North Carolina through the CWMTF. In these cases, the state both requires and holds restrictive easements on land purchases as a condition for grant approval, but the grantee is typically the active land steward, who takes on the responsibility of easement compliance.

NC-GAP recognizes that, due to the dynamic nature of land ownership/stewardship and societal demands, management plans and goals are subject to change. There are certainly protected areas that were completely unknown to us or did not make it onto this map due to inadequate boundary or stewardship information. While we worked hard to gather and verify management information, there are certain to be cases where the ongoing management of an area varies from the management plan and/or agency mandates, and the status was, therefore, incorrectly assigned. Just as certainly, due to the dedicated work of many state agencies and NGOs in North Carolina, there will be many more protected land units that should be included in the future. Additionally, the protection status of many land units will likely change as land stewards revise existing written plans or as management goals change. This stewardship layer, therefore, is only representative of conditions at the time of its creation (December 2001). Periodic updates will be necessary to maintain an accurate and current database.

CHAPTER 5 - ANALYSIS BASED ON STEWARDSHIP AND MANAGEMENT STATUS

Introduction

This chapter describes the method and results of the gap analysis as used by the Gap Analysis Program. As described in the general introduction to this report, the primary objective of GAP is to provide information on the distribution and status of several elements of biological diversity. Although GAP "seeks to identify habitat types and species not adequately represented in the current network of biodiversity management areas" (GAP Handbook, Preface, Version 1, p. I), it is unrealistic to create a standard definition of "adequate representation" for either land cover types or individual species (Noss et al. 1995). A practical solution to this problem is to report both percentages and absolute area of each element in biodiversity management areas and allow the user to determine which types are adequately represented in natural areas. There are many other factors that should be considered in such determinations such as:

- historic loss or gain in distribution,
- nature of the spatial distribution,
- immediate versus long term risk, and
- degree of local adaptation among populations of the biotic elements that are worthy of individual conservation consideration.

Such analyses are beyond the scope of this project, but we encourage their application coupled with field confirmation of the mapped distributions.

Currently, land cover types and terrestrial vertebrates are the primary focus of GAP's mapping efforts, however, other components of biodiversity, such as aquatic organisms or selected groups of invertebrates may be incorporated into GAP distributional data sets. Where appropriate, GAP data may also be analyzed to identify the location of a set of areas in which most or all land cover types or species are predicted to be represented. The use of "complementarity" analysis, that is, an approach that additively identifies a selection of locations that may represent biodiversity rather than "hot spots of species richness" may prove most effective for guiding biodiversity maintenance efforts. Several quantitative techniques have been developed recently that facilitate this process (see Pressey et al. 1993, Williams et al. 1996, Csuti et al. 1997, for details). These areas become candidates for field validation and may be incorporated into a system of areas managed for the long-term maintenance of biological diversity.

The network of Conservation Data Centers (CDCs) and Natural Heritage Programs (NHPs) established cooperatively by The Nature Conservancy and various state agencies maintain detailed databases on the locations of rare elements of biodiversity. GAP cooperatively uses these data to develop predicted distributions of potentially suitable habitat for these elements, which may be valuable for identifying research needs and preliminary considerations for

restoration or reintroduction. Conservation of such elements, however, is best accomplished through the fine-filter approach of the above organizations as described in the introduction. It is not the role of GAP to duplicate or disseminate Heritage Program or CDC Element Occurrence Records. Users interested in more specific information about the location, status, and ecology of populations of such species are directed to their state Heritage Program or CDC.

Methods

The gap analysis is accomplished by first producing: maps of land cover (see [Map 2.3](#)), predicted distributions for selected animal species (see [Map 3.2](#)), and land stewardship and management status (see [Map 4.1](#) and [Map 4.2](#)). Intersecting the land stewardship and management map with the mapped distribution for each of the elements provides a summary of the area and percent of the species or land cover within each of the land stewardship and management categories.

For this analysis, each of the managing entities was assigned to one of 13 major management categories in the land management status data layer and an Arc/Info grid created. That grid layer was then combined with a grid of the Land Management Status data to create a layer with both status and management information for every grid cell. The resultant grid had values between 11 and 134, representing a combination of one through 13 management entities and one through four status codes. The values in that grid were then multiplied by 1000 and then added to the values in the land cover grids. Since the land cover values were between one and 535, the addition of the management/status grid to the land cover grid gave unique combinations of grid cells that can be used to summarize every combination of management, status, and land cover. The setwindow and setmask commands in Arc/Info were used to keep the derived grids from shifting locations. The mask excluded water from the analysis in order to keep the large estuaries of the Coastal Plain and the reservoirs of the Piedmont and Mountains from skewing the analysis. The value attribute tables from the analysis grids were then used to calculate the areal extents and representation of each land cover type.

Results

The data are provided in a format that allows users to carry out inquiries about the representation of each element in different land stewardship and management categories as appropriate to their own management objectives. This forms the basis of Gap's mission to provide land owners and managers with the information necessary to conduct informed policy development, planning, and management for biodiversity maintenance.

As a coarse indicator of the status of the elements, we provide a breakdown along five levels of representation (0-<1%, 1-<10%, 10-<20%, and 20-<50%; >=50%). The <1% level indicates those elements with essentially none of their distribution in a protected status, while levels of 10%, 20%, and 50% have been recommended in the literature as necessary amounts

of conservation (Noss and Cooperrider 1994; Noss 1991; Odum and Odum 1972; Specht et al. 1974; Ride 1975; Miller 1994).

Land Cover Analysis

A summary of the analysis according to the thresholds described above is shown in [Table 5.1](#) below. The table found in [Appendix AA](#) provides the area in square kilometers of each type's mapped distribution by management status and land stewardship and the percent of the types' total distribution in each of those categories. For example, in the case of Seepage and Streamhead swamps (Map Unit # 15) the areal extent managed by the U.S. Fish and Wildlife Service on Status 2 lands is 41.28 km², which represents 7.9% of the statewide distribution for that cover type.

As explained above, we provide results according to thresholds of representation advocated in the literature to conserve biodiversity. The values in the table will allow users to set any desirable threshold to identify elements requiring more protection according to their criteria. The following summaries highlight potential gaps and conservation needs. In the following discussion we focus on natural land cover for which protection status is relevant. The general land cover types are used to organize the discussion within each of the representation thresholds. For each threshold only the cover classes dominated by natural vegetation are discussed.

Table 5.1. Representation Level of Natural Land Cover Classes on Status 1 and 2 Lands.
 Accuracies and sample numbers used in the assessment of the land cover map are included.

Code	Name	Accuracy			Percent of Distribution	
		λ	Θ	n	0-1	1-10
385	Oak Bottomland Forest and Swamp	42	44	37	< 1	--
63	Coastal Plain Mesic Hardwood Forest	72	23	112	< 1	--
138	Coastal Plain Dry to Dry-Mesic Oak Forest	19	44	29	< 1	--
42	Xeric Longleaf Pine	81	75	317	< 1	--
46	Coastal Plain Xeric Oak - Pine Forests	100	100	1	< 1	--
383	Piedmont Mixed Successional Forest	77	20	685	< 1	--
214	Barren; Bare Rock and Sand	50	0	1	< 1	--
173	Coastal Plain Riverbank Shrubs	0	0	0	--	2
50	Coastal Plain Mixed Bottomland Forest	83	50	209	--	4
49	Coastal Plain Oak Bottomland Forest	78	67	262	--	3
30	Cypress-Gum Floodplain Forests	69	83	214	--	8
78	Pond-Cypress - Gum Swamps, Savannah	96	2	37	--	5
67	Wet Longleaf or Slash Pine Savannah	55	60	72	--	3
97	Mesic Longleaf Pine	84	45	272	--	1
232	Xeric Pine-Hardwood Woodlands and Forest	92	10	944	--	2
238	Piedmont/Mountain Submerged Aquatic	0	0	0	--	6
239	Piedmont/Mountain Emergent Vegetation	0	0	5	--	3
267	Riverbank Shrublands	0	0	1	--	2
269	Floodplain Wet Shrublands	0	0	0	--	3
230	Piedmont Mesic Forest	27	80	63	--	1
384	Piedmont/Mountain Mixed Bottomland Forest	32	17	71	--	6
228	Piedmont Dry-Mesic Oak and Hardwood Forest	60	73	948	--	1
222	Piedmont Dry-Mesic Pine Forests	0	0	0	--	3
382	Dry Mesic Oak Pine Forests	23	64	148	--	1
220	Piedmont Xeric Pine Forests	55	62	52	--	3
226	Piedmont Xeric Woodlands	28	91	31	--	2
518	Dry Mesic Oak Forests	16	98	47	--	7
519	Dry Mesic Mixed Forest	26	90	40	--	7
520	Mesic Hardwood Forest	33	32	22	--	5
517	Hemlock Floodplain Forest	23	100	5	--	5
527	Appalachian Hemlock	64	23	91	--	8
533	Appalachian Swamp Forest	0	0	20	--	5
8	Open water	59	99	53	--	3

Table 5.1. cont.

Code	Name	Accuracy			Percent of Distribution		
		λ	Θ	n	10-20	20-50	>50
378	Ocean Beaches	0	0	0	18	--	--
17	Maritime Forests and Hammocks	78	15	89	14	--	--
126	Interdune Wooded Depression Swamp	100	1	10	14	--	--
15	Seepage and Streamhead Swamps	71	75	43	17	--	--
525	Appalachian Oak Forest	77	39	505	16	--	--
526	Appalachian Cove Forest	60	67	217	17	--	--
528	Appalachian Xeric Pine Forest	55	32	62	14	--	--
530	Appalachian Xeric Deciduous Forest	70	23	106	17	--	--
534	Appalachian Wet Shrubland/Herbaceous	0	0	4	16	--	--
535	Talus/Outcrops/Cliffs	100	0	53	13	--	--
3	Tidal Marsh	97	70	173	--	28	--
124	Maritime Scrubs and Tidal Shrubland	75	81	8	--	30	--
372	Interdune Herbaceous Wetlands	0	0	0	--	48	--
371	Maritime Grasslands	100	65	12	--	25	--
75	Tidal Swamp Forest	95	62	82	--	22	--
121	Maritime Pinelands	80	78	18	--	26	--
380	Coastal Plain Fresh Water Emergent	50	9	9	--	28	--
158	Coastal Plain Nonriverine Wet Floodplain Forest	82	67	251	--	22	--
41	Peatland Atlantic White-Cedar Forest	79	86	22	--	47	--
87	Pocosin Woodlands and Shrublands	73	93	255	--	21	--
522	Northern Hardwoods	97	15	177	--	33	--
523	Grassy Bald	60	8	7	--	22	--
524	Shrub Bald	75	32	74	--	26	--
529	Appalachian Xeric Mixed Forest	92	2	171	--	23	--
375	Hypersaline Coastal Salt Flats	0	0	0	--	--	61
521	Spruce/Fir Forest	92	40	73	--	--	70

Land Cover with 0-<1% representation in GAP Status 1 and 2:

Fifteen cover classes have less than 1% of their distribution on Status 1 and 2 lands. Of those cover types, six are listed below and represent natural vegetation (42, 46, 63, 138, 383, 385), six are anthropogenic cover types (36, 180, 202, 203, 204, 205) and three represent barren classes (60, 213, 214).

- Deciduous Forests
 - Successional Deciduous Forest (Map Unit #36) 0.39%.
 - Coastal Plain Mesic Hardwood Forest (Map Unit # 63) 0.69%
Approximately 95% of this forest occurs on privately managed lands. The largest public land holding is the Department of Defense, specifically Camp LeJeune and Cherry Point Main Air Station. Merchants Mill Pond State Park, Camassia Slopes Designated Natural Area, and the Pocosin Lakes and Alligator River Wildlife Refuges are some of the current Status 1 and 2 lands for this forest.
 - Coastal Plain Dry to Dry-Mesic Oak Forests (Map Unit # 138) 0.92%.
This cover type is found throughout the highly fragmented agricultural lands of the inner Coastal Plain. Lumber River State Park and the Roanoke River Wetlands Gamelands, Roanoke River National Wildlife Refuge are some of the public areas supporting a small fraction of this type.
- Evergreen Forests
 - Xeric Longleaf Pine Forest and Woodlands (Map Unit # 42) 0.54%.
These forests and woodlands are concentrated in the Sandhills subregion, with remnant patches mapped in the Southern Coastal Plain. Fort Bragg Military Reservation and the Sandhills Game Land support more than 58% of the mapped extent of this class on Status 3 lands. While the active natural resource management on Fort Bragg is beneficial to this woodland type, the potential for changes in management on military lands means they are generally Status 3 or 4 lands and therefore not considered part of the conservation network according to the GAP standards.
- Mixed Forests
 - Coastal Plain Xeric Oak – Pine Forest (Map Unit #46) 0.08%.
Less than 2 km² of this mixed forest was mapped for the entire Coastal Plain, further work on concept for this type needs to happen before a meaningful analysis can be completed.
 - Piedmont Mixed Successional Forest (Map Unit #383) 0.45%

- Woody Wetland
 - Oak Bottomland Forest and Swamp (Map Unit # 385) 0.65%.
These wetland forests are mapped only in the Piedmont region and are generally shown to be scattered along small stream corridors throughout that region. A notable exception is a large occurrence of the type on Jordan Game Land. That site is a Status 2 managed area managed by the NC Wildlife Resources Agency.
- Agricultural
 - Agricultural Pasture/Hay and Natural Herbaceous (Map Unit # 205) 0.55%.
 - Agricultural Fields (Map Unit #180) 0.39%
- Urban
 - Residential Urban (Map Unit 202) 0.22%.
 - Urban – Low Density Developed (Map Unit # 203) 0.16%.
 - Urban – High Density Developed (Map Unit # 204) 0.24%.
- Barren
 - Sand (Map Unit # 60) 0.01%
 - Barren, Bare Rock and Sand (Map Unit # 214) 0.86%.
 - Barren, Quarries, Strip Mines, and Gravel Pits (Map Unit # 213) 0.99%.

Land Cover with 1-<10% representation in GAP Status 1 and 2:

Over half of the natural land cover classes have less than 10% of their distribution represented in Status 1 and 2 lands. These cover classes are predominantly Coastal Plain and Piedmont types, with four exceptions, including Dry Mesic Oak Forests (Map Unit # 518), Mesic Hardwood Forest (Map Unit # 520), Appalachian Hemlock (Map Unit # 527), Hemlock Floodplain Forest (Map Unit # 517), and Appalachian Swamp Forest (Map Unit # 533).

- Water
 - Open Water (Map Unit # 8) 2.92%
It is important to remember for this discussion that large bodies of open water, including bays, open ocean, and reservoirs were excluded from the analyses. The open water included in this analysis includes rivers, ponds, and small lakes. Of the open water considered, The Fish and Wildlife Service, State Wildlife Resources Commission, and National Park Service manage the majority of Status 1 and 2 areas. As mentioned previously, the state lakes (Phelps, Waccamaw), and water of Lake Mattamuskeet were excluded along with the other large bodies of water. If these lakes were included in the analysis State Parks and the Fish and Wildlife Service would be the primary land managers for those areas.

- Deciduous Forests
 - Coastal Plain Oak Bottomland Forest (Map Unit # 49) 2.87%

The Roanoke River Wetland Gamelands and Roanoke River National Wildlife Refuge support the largest concentration of this cover type on Status 1 and 2 lands. In the Southern Coastal Plain this type occurs along some of the larger river systems, with examples on the Cape Fear Wetlands Game Land. The majority of this cover type occurs on lands that are privately owned and managed.
 - Coastal Plain Mixed Oak Bottomland Forest (Map Unit # 50) 4.13%

This bottomland type occurs throughout the Coastal Plain, with protected areas including parts of the Roanoke River and North River Game Land. Large privately managed occurrences of these wetland forests are found along the upper Roanoke, south of the Dismal Swamp and along the Neuse River.
 - Deciduous Cultivated Plantation (Map Unit #51) 3.47%
 - Piedmont Xeric Woodland (Map Unit # 226) 1.78%
 - Piedmont Dry-Mesic Oak and Hardwood Forest (Map Unit # 228) 1.42%
 - Piedmont Mesic Forests (Map Unit # 230) 1.13%

These three Piedmont hardwood types are mapped along upper ridges and slopes throughout the ecoregion. Larger patches of the Xeric Woodland occur in the transition area of the western Piedmont. The conservation lands for these types are currently managed by the State Parks Department (South Mountains, Morrow Mountain, Umstead, and Eno River); Wildlife Resources Commission (Caswell and Jordan game lands); and the U.S. Forest Service (Uwharrie National Forest).
 - Dry Mesic Oak Forests (Map Unit # 518) 7.34%
 - Mesic Hardwood Forest (Map Unit # 520) 4.89%

The U.S. Forest Service (Pisgah and Nantahala National Forests) and the National Park Service (Great Smoky Mountains National Park and Blue Ridge Parkway) are the primary public land managers for these two forest types. The Dry Mesic Oak Forest has a much greater mapped distribution with over 7161 km² compared to 292 km² of the Mesic Hardwood Forest.
- Evergreen Forests
 - Coniferous Regeneration (Map Unit # 20) 1.12%
 - Coniferous Cultivated Plantation (Map Unit # 21) 1.37%
 - Mesic Longleaf Pine (Map Unit # 97) 1.00%

Eighty two percent of this forest type occurs on Status 4 and additional 17% are found on Status 3 lands. The Status 3 examples

are those managed by the Department of Defense lands (112 km²) and Wildlife Resources Commission lands (23 km²). Of the 1% of this type that is mapped on Status 1 and 2 lands, the greatest extent (6 km²) is managed by Wildlife Resources Commission. An addition 2 km² on Status 1 and 2 lands is split between North Carolina State Parks and the U.S. Forest Service lands.

- Piedmont Xeric Pine Forest (Map Unit # 220) 3.13%
- Piedmont Dry-Mesic Pine Forest (Map Unit # 222) 2.59%

As with the majority of Piedmont forest types, more than 95% of Piedmont Dry-Mesic Pine Forest mapped distribution occurs on private lands. The Wildlife Resources Commission, State Parks and U.S. Forest Service manage the majority of the Status 1 and 2 occurrences.
- Appalachian Hemlock (Map Unit # 527) 7.77%

Eighteen percent of the mapped distribution for this hemlock forest occurs on Status 3 lands managed by the U.S. Forest Service. Status 1 and 2 examples are primarily on National Park Service, U.S. Forest Service, State Parks, and Wildlife Resources Commission lands.
- Mixed Forests
 - Xeric Pine-Hardwood Woodlands and Forests (Map Unit #232) 2.14%

This type occurs throughout the Piedmont, with 96% of the mapped distribution on Status 4 lands. Status 1 and 2 examples are managed by the three primary natural resource managers of the Piedmont region (Wildlife Resources Commission, State Parks, and U.S. Forest Service).
 - Dry Mesic Oak Pine Forest (Map Unit # 382) 1.36%

This is one of the few map units mapped in both the Piedmont and Coastal Plain, with the majority occurring in the Piedmont. Public lands that support this type in the Coastal Plain include the Roanoke River Wildlife Refuge, Roanoke River Wetlands Game Lands, Northwest River Marsh Game Land, and Merchant Mill Pond State Park. In the Piedmont, state parks (South Mountain, Medoc Mountain, Eno River and Umstead), game lands (South Mountain, Caswell, Jordan Lake, and Butner-Falls of the Neuse), and national forests (Uwharrie) each support a small fraction of the publicly managed acreage of this type.
 - Dry Mesic Mixed Forest (Map Unit # 519) 6.71 %

The Dry Mesic Mixed Forest is the Mountain parallel to the Dry Mesic Oak Pine Forest (Map Unit #382). Seventy-five percent of this forest type occurs on privately managed lands and another 19% on Status 3 lands, primarily on U.S. Forest Service lands. Of the Status

1 and 2 lands, the National Park Service manages 52 km² between the Great Smoky Mountains National Park and the Blue Ridge Parkway. The Forest Service manages 19 km² on Status 1 lands in wilderness areas (Joyce Kilmer, Southern Nantahala, Shining Rock, and Linville Gorge wilderness areas).

- Shrubland

- Coastal Plain Riverbank Shrubs (Map Unit # 173) 1.97%

While this class is widespread throughout the Coastal Plain in small scattered patches, few examples were large enough to be mapped in this effort. In addition this wetland class is mapped only in the southern Coastal Plain in the upper reaches of some of the river systems. The largest amount of this class mapped on public lands is associated with the Lumber River State Park.

- Woody Wetland

- Cypress-Gum Floodplain Forests (Map Unit # 30) 8.36%

The largest concentration of Cypress-Gum forests occur along the Roanoke River. Nine management entities have a fraction of this cover type on their lands. Most of the Status 1 and 2 examples occur on Fish and Wildlife Service (Roanoke River Wildlife Refuge), Wildlife Resources Commission (Roanoke River Wetland Game Lands), and State Park (Merchant Mill Pond, Chowan State Natural Area, and Lumber River State Park) lands. The largest concentration of Status 3 land with this type is the TNC/Georgia Pacific Conservation Easement also along the Roanoke River.

- Wet Longleaf or Slash Pine Savannah (Map Unit # 67) 3.10 %

This cover type occurs primarily in the southern outer Coastal Plain and in the Sandhills region. Conceptually, this cover type should probably be combined with the Mesic Longleaf Pine Forest because of the difficulty distinguishing these two similar types in the mapping process. In the outer Coastal Plain the primary public lands include Holly Shelter Game Land, Croatan National Forest, and Camp LeJeune. In the Sandhills the public lands include the Sandhills Game Lands and Fort Bragg.

- Pond-Cypress – Gum Swamps and Savannahs (Map Unit # 78) 5.49

This plant community occurs in very small patches, and there is less than 10 km² mapped throughout the Coastal Plain. The majority of the acreage occurs on two ownerships: Department of Defense (Camp LeJeune) and TNC lands of Goose Pond Bay Preserve.

- Riverbank Shrublands (Map Unit # 267) 1.57%

Riverbank Shrublands occur throughout the Piedmont and Mountains in small patches. This cover type represented less than

0.04% of the terrestrial land cover in the state. The majority of this type on public lands is represented in the margins of man-made reservoirs, with the Wildlife Resources Commission (Butner-Falls of the Neuse and Jordan game lands) managing the Status 2 and 3 examples.

- Floodplain Wet Shrublands (Map Unit # 269) 2.32%
These are saturated shrublands of the Piedmont and Mountains and often co-occur with the riverbank shrublands on the edges of the reservoirs. The Army Corps of Engineers manages the largest concentration of this type at Falls Lake.
- Piedmont/Mountain Mixed Bottomland Forest (Map Unit # 384) 5.49%
Publicly managed examples of these wetland forests include Wildlife Resources Commission (Jordan Game Lands and Butner-Falls of the Neuse Game Lands), U.S. Fish and Wildlife Service (Pee Dee National Wildlife Refuge), Army Corp of Engineers (Falls and Jordan lakes), as well as the U.S. Forest Service (Uwharrie, Nantahala, and Pisgah national forests).
- Hemlock Floodplain Forest (Map Unit # 517) 5.05%
The majority of the publicly managed acreage of this floodplain forest is managed on U.S. Forest Service lands (Pisgah and Nantahala national forests). The Status 1 and 2 examples occur on U.S. Park Service lands (Great Smoky Mountains National Park and the Blue Ridge Parkway), State Parks Land (Gorges and Stone Mountain state parks) and Wildlife Resources Commission (Toxaway, Green River and Thurman Chatham game lands).
- Appalachian Swamp Forest (Map Unit # 533) 5.36%
This cover type is restricted to the high elevations of the state and occurs in isolated patches. Less than 1 km² was mapped, and none of the 20 reference points used to assess this cover type fell within this type. This could be due to a combination of factors. High omission error is the most likely problem, but there could also be spatial error in the reference data and reference data that represent examples of this type that fall below the minimum mapping unit.
- Herbaceous Wetland
 - Piedmont/Mountain Submerged Aquatic (Map Unit # 238) 5.88%
 - Piedmont/Mountain Emergent Vegetation (Map Unit # 239) 2.77%
These herbaceous wetlands are found primarily along the margins of man-made reservoirs, with the Army Corps of Engineers, Wildlife Resources Commission and State Parks being the primary managers of those areas.

Land Cover with 10%-<20% representation in GAP Status 1 and 2:

- Barren
 - Ocean Beaches (Map Unit # 378) 17.67%

Status 1 and 2 lands include those managed by the National Park Service (Cape Lookout National Seashore), U.S. Fish and Wildlife (Pea Island and Currituck wildlife refuges), Division of Coastal Management (Buxton Woods, Mansboro, Currituck Banks, and Zekes Island reserves) and State Parks (Jockey's Ridge, Fort Macon, and Hammocks Beach state parks). Status 3 lands examples include Cape Hatteras National Seashore and Camp LeJeune.
 - Talus/Outcrops/Cliffs (Map Unit # 535) 13.42%

Less than 1 km² of this type was mapped, and this class is certainly under-represented in the map. Of the mapped areas, Great Smoky Mountains National Park and the Nantahala and Pisgah National Forest represent the concentrations of this type on public lands.
- Deciduous Forests
 - Appalachian Oak Forest (Map Unit # 525) 15.63%
 - Appalachian Cove Forest (Map Unit # 526) 16.43%
 - Appalachian Xeric Deciduous Forest (Map Unit # 530) 16.43%

For each of these high elevation forest types, approximately 50% of their distribution is on private lands. The National Park Service (Great Smoky Mountains National Park and Blue Ridge Parkway) and U.S. Forest Service (Joyce Kilmer, Southern Nantahala, Shining Rock, and Linville Gorge wilderness areas) support these cover types on Status 1 and 2 lands, while Status 3 Forest Service Lands (Nantahala and Pisgah national forests) support about one third of the managed acreage.
- Evergreen Forests
 - Maritime Forests and Hammocks (Map Unit # 17) 13.53%

The majority of protected Maritime forest is found on the USFWS land (Alligator River Wildlife Refuge) and Division of Coastal Management Sites (Bald Head Island, Kitty Hawk Woods, and Buxton Woods). Theodore Roosevelt State Park represents another concentration that is managed at Status 2 or above.
 - Appalachian Xeric Pine Forest (Map Unit # 528) 13.66%

Status 3 Forest Service lands (Nantahala and Pisgah National Forests) support about 20% of the distribution of this forest type, with nearly 14% occurring on Status 1 and 2 lands managed by the National Park Service (Great Smoky Mountains National Park and Blue Ridge Parkway) and U.S. Forest Service (Joyce Kilmer,

Southern Nantahala, Shining Rock, and Linville Gorge wilderness areas).

- Woody Wetland
 - Seepage and Streamhead Swamps (Map Unit # 15) 16.74%

The Dismal Swamp Wildlife Refuge and Dismal Swamp State Park represent the highest concentration of protected seepage and streamhead swamps. Throughout the Coastal Plain the cover type can be found on a variety of lands managed by the wildlife agencies including the Pocosin Lakes and Alligator River wildlife refuges and the Holly Shelter, Columbus County, and Lantern Acres gamelands. State Parks manages a large concentration, with much of the land along the Lumber River and some areas within the Bladen Lakes State Park.
 - Interdune Wooded Depression Swamp (Map Unit # 126) 13.57%

Less than 1 km² of this outer Coastal Plain cover type was mapped, and while it is a very small patch type, it is likely to be underrepresented in the map. Sites with this type map included those along the Outer Banks managed by the U.S. Fish and Wildlife Service (Mackay Island and Currituck National Wildlife Refuge), National Park Service (Cape Hatteras National Seashore), and the State Division of Coastal Management (Currituck Banks Estuarine Reserve), as well as Non-Governmental Organizations (Pine Island Audubon Sanctuary).
 - Appalachian Wet Shrubland/ Herbaceous (Map Unit # 534) 16.13%

Less than 1 km² of this high elevation cover type was mapped in the Blue Ridge Ecoregion, and the four independent reference sites used for the assessment had not been correctly mapped as this class; therefore this class should be evaluated for future improvement.

Land Cover with 20% -<50% representation in GAP Status 1 and 2:

- Deciduous Forest
 - Northern Hardwoods (Map Unit # 522) 32.30%

One third of this forest type occurs in Status 1 and 2 lands, one third on Status 3 lands and the final third on Status 4 lands. The Status 1 and 2 lands are the National Park Service (Great Smoky Mountains and Blue Ridge Parkway) and Forest Service (Joyce Kilmer, Southern Nantahala, Shining Rock, and Linville Gorge wilderness areas). Examples of the 30% on Status 3 lands are the Nantahala and Pisgah national forests.
- Evergreen Forest
 - Maritime Pinelands (Map Unit # 121) 25.99%

This forest type is concentrated along the outer Coastal Plain. The U.S. Fish and Wildlife Service (Alligator River and Pocosin Lakes national wildlife refuges), Wildlife Resources Commission (North River Game Lands and Gull Rock Game Lands), and Division of Coastal Management (Currituck Banks Estuarine Reserve and Buxton Woods Coastal Reserve) are the primary managers of Status 1 and 2 lands for Maritime Pinelands. The U.S. Air Force (Dare County Bombing Range) manages approximately 11% of the distribution on Status 3 lands.

- Mixed Forest
 - Appalachian Xeric Mixed Forest (Map Unit # 529) 22.28%

Status 1 and 2 acreage of this high elevation forest occurs on National Park Service (Great Smoky Mountains and Blue Ridge Parkway) and U. S. Forest Service (Joyce Kilmer, Southern Nantahala, Shining Rock, and Linville Gorge wilderness areas) lands. An additional 30% occurs on Status 3 Forest Service (Pisgah and Nantahala national forests) lands.
 - Shrubland
 - Maritime Scrubs and Tidal Shrublands (Map Unit # 124) 25.89%

The Status 1 and 2 lands for these wetlands are found on National Park Service (Cape Hatteras National Seashore), Division of Coastal Management (Buxton Woods, Currituck Banks Estuarine Reserve, and Kitty Hawk Woods Coastal Reserve), U.S. Fish and Wildlife Service (Pea Island National Wildlife Refuge) and State Park (Kitty Hawk Woods Designated Nature Preserve) managed areas. An additional 25% occurs on Status 3 lands of Cape Hatteras and the Wright Brothers National Monument and on Camp LeJeune.
 - Shrub Bald (Map Unit # 524) 25.89 %

These broadleaf evergreen balds occur throughout the steep slopes of the Mountains region. The largest concentrations of Status 1 and 2 lands are on the National Park Service (Great Smoky Mountains and Blue Ridge Parkway) and the U. S. Forest Service (Shining Rock Wilderness) areas. Another 23% of the distribution is found primarily on Forest Service (Pisgah and Nantahala national forests) and the locally owned and managed Asheville Watershed Conservation Easement.
 - Herbaceous Upland
 - Grassy Bald (Map Unit #523) 22.38%

Sixty three percent of the mapped grassy balds occur on U.S. Forest Service Status 3 lands (Pisgah and Nantahala national forests).

Status 1 and 2 examples occur on the Great Smoky Mountains and Blue Ridge Parkway as well as Big Yellow Mountain Preserve.

- Woody Wetland
 - Tidal Swamp Forest (Map Unit # 75) 21.64%

These wetland forests are concentrated in the northern outer Coastal Plain. Status 1 and 2 lands include U.S. Fish and Wildlife Service (Alligator River and Roanoke River national wildlife refuges), Wildlife Resources Commission (North River Game Lands), State Parks (Chowan Swamp State Natural Area, Bull Neck Swamp DNP) and NGO (Roanoke River TNC/GP Partnership and Palmetto and Peartree Preserve). Status 3 examples are included in the Dare County Air Force Range, Bull Neck Swamp, and Croatan National Forest.
 - Pocosin Woodlands and Shrublands (Map Unit # 87) 21.06%

This unique wetland system is concentrated in the southern outer Coastal Plain. Occurrences are managed by the Wildlife Resources Commission (Gull Rock, Goose Creek, Angola Bay, Holly Shelter game lands), U.S. Fish and Wildlife Services (Alligator River and Pocosin Lakes national wildlife refuges), U.S. Forest Service (Catfish Lake South, Pocosin, and Sheep Ridge wildernesses), and NGO (Green Swamp Preserve). Another 15% of the distribution occurs on Status 3 lands, including U.S. Forest Service (Croatan National Forest), Department of Defense (Dare County Air Force Range and Camp LeJeune) and North Carolina State University (Hoffman Forest).
 - Peatland Atlantic White-Cedar Forest (Map Unit # 41) 46.79%

This wetland forest is concentrated in the northern Coastal Plain, with 54% of the mapped distribution occurring on publicly managed lands. The largest concentrations of Status 1 and 2 examples are managed by the U.S. Fish and Wildlife Service (Great Dismal Swamp National Wildlife Refuge, Swanquarter National and Alligator River wildlife refuges), Wildlife Resources Commission (North River and Gull Rock game lands), State Parks (Dismal Swamp State Natural Area), Division of Coastal Management (Buckridge Coastal Preserve), and NGO (Palmetto-Peartree Preserve).
 - Coastal Plain Nonriverine Wet Floodplain Forest (Map Unit # 158) 21.93%

This saturated wetland forest occurs throughout the outer Coastal Plain. The largest concentrations of Status 1 and 2 examples occur on lands managed by the U.S. Fish and Wildlife Service (Great

Dismal Swamp National Wildlife Refuge, Swanquarter National and Alligator River wildlife refuges), Wildlife Resources Commission (Columbus County, Van Swamp, North River, and Gull Rock game lands), State Parks (Dismal Swamp State Natural Area), Division of Coastal Management (Buckridge Coastal Preserve), and NGO (Palmetto-Peartree Preserve).

- Herbaceous Wetland
 - Tidal Marsh (Map Unit # 3) 28.09%

The majority of the protected tidal marsh occurs on Fish and Wildlife Service refuges, including Cedar Island, Swanquarter, and Mackay Island. These refuges support 154 km², making up close to 60% of the Status 1 and 2 lands. The Wildlife Resources Commission manages over 42 km² in the Gull Rock and Roanoke Island gamelands. The third major manager of protected lands is the National Park Service, with 2.85% of the statewide distributions.
 - Maritime Grasslands (Map Unit # 371) 25.07%

These dune grasslands occur as a narrow band throughout the length of the Outer Banks of North Carolina. The U.S. National Park Service (Shackleford Banks National Wilderness Area and Cape Hatteras National Seashore) manages the largest expanse of the Status 1 and 2 acreage of this cover type. Other Status 1 and 2 lands include State Parks (Bald Head Island State Natural Area, Hammocks Beach, Fort Macon State Park, and Jockey's Ridge State Park DNP), Division of Coastal Management (Currituck Banks, Masonboro Island, and Zekes Island estuarine reserves), U.S. Fish and Wildlife Service (Currituck and Pea Island National wildlife refuges) and NGO (Pine Island Audubon Sanctuary). Another 20% of the distribution occurs on Status 3 National Park Service lands (Cape Hatteras National Seashore).
 - Interdune Herbaceous Wetlands (Map Unit # 372) 48.27%

These wetlands occur in very small patches, and many occurrences are too small to map. Of the areas mapped, more than 70% are on publicly managed lands. The National Park Service manages the majority of the occurrences for this type within Cape Hatteras and Cape Lookout national seashores and Shackleford Banks National Wilderness.
 - Coastal Plain Fresh Water Emergent (Map Unit # 380) 27.60%

These emergent wetlands are scattered throughout the Coastal Plain, with concentrations on U.S. Fish and Wildlife Service (Alligator, Mattamuskeet and Pocosin Lake national wildlife refuges) and Wildlife Resources Commission (Gull Rock Game Lands) Status 1

and 2 lands. An additional 14% (25 km²) is mapped on Status 3 lands of the Dare County Air Force Range.

Land Cover with at least 50% representation in GAP Status 1 and 2:

- Evergreen Forest
 - Spruce/Fir Forest (Map Unit # 521) 69.86%

This high elevation forest occurs primarily on Status 1 and 2 lands within the Great Smoky Mountains National Park and Blue Ridge Parkway (National Park Service), Mount Mitchell State Park, the Middle Prong Wilderness (U.S. Forest Service), Big Tom Wilson Preserve (American Farmland Trust), Grandfather Mountain Preserve (The Nature Conservancy) and the Asheville Watershed Conservation Easement. Additional Spruce/Fir Forests are mapped on Status 3 lands on the Pisgah National Forest adjacent to Mount Mitchell.

Limitations and Discussion for Land Cover Analysis

Assessing the conservation status of natural land cover is limited by several confounding factors.

GAP has typically found the accuracy of the mapped distributions of natural communities at the floristic (e.g., alliance) level to be substantially lower and more variable than that of animal distributions.

Any aggregation of biotic units (e.g., above species) is a surrogate for species or lower levels of biotic organization and will underrepresent conservation need (Pressey and Logan 1995).

For the most part we cannot distinguish the degree of natural condition or value of the mapped units due to management manipulation, exotic invasion, or spatial configuration. Considering an aggregation of species such as we have mapped to be sufficiently represented in existing conservation areas cannot be determined solely by the percentage of the community represented because the aggregation has unmapped variation in species composition that we could not measure. Until individual plant species distributions can be mapped, it is not possible to assure that the full range of vegetation biodiversity is represented, and surrogates must be used.

Where applicable we have tried to warn the reader of limitations in the mapping or accuracy of individual cover types in the North Carolina land cover map, but it is important for the user to evaluate the cover type conceptual match to the use as well as the accuracy of the cover type relative to the intended use.

The analysis of representation reflects current day circumstances. For many of the natural communities of North Carolina, the historic distributions were much broader. In the extreme cases, the existing communities occupy less than 1% of their previous distribution. For many applications the best use of this data will be in concert with an understanding of the historic distribution as well as the variability in the vulnerability of

these types to ongoing and future threats, including disease, pollution, insects, and conversion.

Predicted Animal Species Distributions Analysis

A summary table is not provided due to the large number of species analyzed, but some generalizations and examples of species results by the various thresholds are provided below. The complete Animal Species Distributions Analysis Table found in [Appendix BB](#) provides the area in square kilometers (multiply by 100 for hectares, 247 for acres) of the species' mapped distribution by management status and land steward and the percent of the species' total distribution in each category. For example, in [Appendix BB](#) the table for Mabee's salamander indicates that a total of 108,304.2 ha of the predicted distribution occurred on Status 2 lands. The total predicted distribution for the species covered 1,141,670.7 ha; therefore, 9% of the distribution occurred on Status 2 lands. Adding the total for status 1 and 2 percentages, (3% and 9%) indicates that this species is represented at the level of 12% in the Gap analysis.

The results from the individual species were used to develop the summary table ([Table 5.2](#)). For each representation threshold, a brief discussion is provided below and an appendix is included that provides the taxonomy, federal and state status, and the area and percent representation in Status 1 and 2 lands for that threshold ([Appendices CC – GG](#)).

Table 5.2. Summary of species at different thresholds of biodiversity management.

Biodiversity management is defined as the percent of predicted distribution on GAP Status 1 & 2 lands divided by the total predicted distribution. Reported values are the number (percentage) of species in each category.

Taxa	< 1%	1 – 10%	10 – 20%	20 – 50%	> 50%	Total # of species
Amphibians	0 (0)	50 (12)	19 (5)	6 (1)	1 (<1)	76 (18)
Breeding Birds	30 (7)	97 (23)	25 (6)	36 (9)	5 (1)	193 (47)
Mammals	6 (1)	44 (11)	17 (4)	6 (1)	2 (<1)	75 (18)
Reptiles	9 (2)	52 (13)	4 (1)	5 (1)	0 (0)	70 (17)
All Species	45 (11)	243 (59)	65 (16)	53 (13)	8 (2)	414 (100)

Species with 0-<1% of predicted distribution in Status 1 or 2:

Of the 414 species modeled, 45 have less than 1% of their predicted distribution on lands with long-term protection for biodiversity (GAP status 1 and 2, [Appendix CC](#)). Thirty of these are birds, six are mammals, and nine are reptiles. In addition, NatureServe and the North Carolina Natural Heritage Program rank 14 of the 45 species as either critically imperiled (SRank 1), imperiled (SRank 2), or vulnerable (SRank 3) in the state. Of these species, five have Federal status, including the Bachman's sparrow, Henslow's sparrow, Bog turtle, and Southern Hognose Snake. Mammals that are habitat generalists occur at this threshold level as well, due to the fact that they are predicted to occur statewide in all

land cover types, including urban and agricultural lands while Status 1 and 2 lands represent a small fraction of the state’s area.

Species with 1-<10% of predicted distribution in Status 1 or 2:

The majority of species fall within this threshold (Table 5.3, Appendix DD). For example, 50 of the 76 amphibians and 52 of the 70 reptiles modeled are included in this category. About half of the birds and mammals that were modeled also fall into this category. Many salamanders, bats, and snakes are included in this category. Table 5.3 provides a list of the species with state or federal status and between 1 and 10% of their predicted distribution within status 1 and 2 lands.

Table 5.3. Species with state or federal status that have 1-<10% of their predicted distribution in status 1 and 2 lands.

Taxa	Species with State or Federal status
Amphibian	mole salamander, green salamander, seepage salamander, four-toed salamander, ravine salamander, Wehrle’s salamander, Weller’s salamander, Tellico salamander, southern zigzag salamander, Neuse River waterdog, mudpuppy, oak toad, pine barrens tree frog, gray treefrog, ornate chorus frog, gopher frog
Birds	double-crested cormorant, anhinga, great blue heron, yellow-crested night heron, American black duck, black vulture, sharp-shinned hawk, Cooper’s hawk, peregrine falcon, black-billed cuckoo, barn owl, least flycatcher, tree swallow, warbling vireo, golden-winged warbler, cerulean warbler, vesper sparrow, savannah sparrow, Baltimore oriole,
Mammals	little brown bat, southeastern bat, eastern small-footed bat, Seminole bat, Rafinisque’s big-eared bat, Brazillian free-tailed bat, eastern fox squirrel, meadow jumping mouse, black bear, least weasel, long-tailed weasel
Reptiles	chicken turtle, stripped mud turtle, American alligator, mimic glass lizard, coal skink, glossy crayfish snake, pine woods snake, eastern diamondback rattlesnake, pigmy rattlesnake.

Species with 10%-<20% of predicted distribution in Status 1 or 2:

Sixty-five of the 414 species modeled are represented at this threshold (See Appendix EE). Three well-known examples of federally listed species, red-cockaded woodpecker, bald eagle, and Indiana bat fall into this category. Two salamanders, the Mabee’s and Southern Appalachian, are included here as well.

Species with 20% -<50% of predicted distribution in Status 1 or 2:

About one-eighth (53) of the species occur in this category. Of those, all six of the amphibians are salamanders of the Southern Appalachians ([Appendix FF](#), [Appendix S](#)). On the other end of the state, shorebirds and sea turtles make up the other species in this category. Some examples include the piping plover, American oystercatcher, Wilson's plover, black-necked stilt, loggerhead, green turtle, Atlantic Ridley and leatherback turtle. Although there is a relatively little acreage of habitat modeled for these species in North Carolina, some of that acreage is within the managed lands. For most of those species, this habitat is essential for breeding, and even within the managed lands, the threats to nest success are less determined by overall management criteria and more so by local conditions.

Species with at least 50% representation in GAP Status 1 and 2:

Eight of the 414 species modeled for this project have more than 50% of their predicted distribution in Status 1 and 2 lands. These include imitator salamander, northern saw-whet owl, black-capped chickadee, golden crowned kinglet, hermit thrush, pine siskin, Appalachian cottontail and northern flying squirrel ([Appendix GG](#)). Similar to the case of the Spruce-Fir Forest, the concentration of protected lands in the Mountains of North Carolina and distributions that are restricted to the Southern Appalachians means that within North Carolina there species are relatively well represented in the conservation network.

Limitations and Discussion

When applying the results of our analyses, it is critical that the following limitations are considered: 1) the limitations described for each of the component parts (land cover mapping, animal species mapping, stewardship mapping) of the analyses, 2) the spatial and thematic map accuracy of the components, and 3) the suitability of the results for the intended application (see [Appropriate and Inappropriate Use](#) below).

It is important to recognize that the majority of the species considered in this report are not endemic to North Carolina; therefore, the best measure of representation would be a range-wide analysis. While this is a limitation, the fact that most states in the region have similar amounts of managed lands means that these analyses may be skewed for species with limited ranges but probably not so for the wider ranging species. At the same time, this analysis does provide a basis for ensuring the conservation of the species modeled throughout the North Carolina portion of their range.

It is also important to remember that our analysis is based on existing land cover not historic distributions; therefore, many of the species have already undergone significant habitat loss or degradation that is not reflected here. Finally, the species list developed for this project was based on a common set of criteria; therefore, naturalized species as well as rare endemics are analyzed in the same fashion. Future applications of the models, species richness maps, and this analysis should take species specific biology into account.

CHAPTER 6 - CONCLUSIONS AND MANAGEMENT IMPLICATIONS

The North Carolina Gap Project was able to build on a variety of data and expertise in the state to compile three core datasets (land cover, land management, and vertebrate species distributions) and conduct the first species and plant community Gap Analysis. In the course of the effort, a variety of agency specific analyses have been done incorporating the NC-GAP data. Some specific examples include the Conservation Assessment of the Southeast Coastal Plain of North Carolina (Hall and Schafale 1999), North Carolina Wildlife Action Plan (NCWRC 2005), and a decision support tool for the Roanoke, Tar, Neuse, and Cape Fear Gap Ecosystem (Williams et al. 2001). In each case the NC-GAP land cover and vertebrate models were used to inform conservation. Currently, a statewide effort using the NC-GAP data and the guild analysis is underway at the North Carolina Natural Heritage Program. This effort is similar to what was done for the southeast Coastal Plain.

While the NC-GAP effort was substantial and represented a first in North Carolina, the need for these same datasets at a regional scale and representing more current land cover became increasingly apparent. To that end, the National Gap Analysis Program has changed the programmatic model to make it regional, with work in the Southeast being initiated in 2003. This effort will deliver the same datasets (detailed land cover, stewardship, and vertebrate species models) and analyses for a nine-state area of the Southeast in the winter of 2006. In the regional effort, we have teamed with the USGS Multi-Resolution Landscape Consortium to assist in the development of the National Land Cover Dataset 2001 (Homer et al, 2001). The consortium has provided for the development of consistent impervious surface and canopy closure estimates as well as National Land Cover Data throughout the conterminous U.S. Completion of that national dataset is expected in December of 2006. By working together this effort, we will ensure that the Southeast GAP data are compatible with the national dataset and that the majority of the GAP effort can be focused on mapping of the detailed land cover.

One of the constraints to the standard Gap analysis is the broad brush approach, treating all places and species as equal in the analysis. These core data are now providing a meaningful starting point from which to ask agency and species specific questions. For example, currently we are working with the U.S. FWS to expand the modeling approach for several species to include inductive (data driven) species modeling in addition to the deductive (expert opinion) models. For most species this approach is still not feasible, and in those cases the GAP habitat affinities and predicted distributions will remain the best models. For the species where sufficient data exists, the inductive approach should improve our understanding and therefore our management decisions.

CHAPTER 7 - PRODUCT USE AND AVAILABILITY

How to Obtain the Products

It is the goal of the Gap Analysis Program and the USGS Biological Resources Division (BRD) to make the data and associated information as widely available as possible. Use of the data requires specialized software called geographic information systems (GIS) and substantial computing power. Additional information on how to use the data or obtain GIS services is provided below and on the GAP home page (URL below). While a CD-ROM of the data will be the most convenient way to obtain the data, it may also be downloaded via the Internet from the national GAP home page at:

<http://gapanalysis.nbi.gov/>

The home page will also provide, over the long term, the status of our state's project, future updates, data availability, and contacts. Within a few months of this project's completion, CD-ROMs of the final report and data should be available at a nominal cost--the above home page will provide ordering information. To find information on this state GAP project's status and data, follow the links to "Current Projects" and then to the particular state of interest.

The North Carolina Gap Data will be available through a variety of sites, including the North Carolina Gap website, <http://www.basic.ncsu.edu/ncgap/>; the North Carolina State University GIS site, <http://www.lib.ncsu.edu/gis/>; as well as through links on North Carolina One Map, <http://www.nconemap.net/>.

Minimum GIS Required for Data Use: The statewide data are generally provided as Arc/Info grids and require users to have access either to Spatial Analyst within ESRI's family of products or the ability to convert and view the data in another raster format. The complete datasets and the final report will require several gigabytes of disk space (approximately 20 gigabytes). Currently most computers can easily manage the functions necessary for display and navigating through the individual layers. Additional analysis may require tiling of the data or the use of more efficient algorithms.

Disclaimer

Following is the official Biological Resources Division (BRD) disclaimer as of 29 January 1996, followed by additional disclaimers from GAP. Prior to using the data, you should consult the GAP home page (see How to Obtain the Data, above) for the current disclaimer.

Although these data have been processed successfully on a computer system at the BRD, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that these data are directly acquired from a BRD server [see above for approved data providers] and not indirectly through other sources which may have changed the data in some way. It is also strongly recommended that careful attention be paid to the content of the metadata file associated with these data. The Biological Resources Division shall not be held liable for improper or incorrect use of the data described and/or contained herein.

These data were compiled with regard to the following standards. Please be aware of the limitations of the data. These data are meant to be used at a scale of 1:100,000 or smaller (such as 1:250,000 or 1:500,000) for the purpose of assessing the conservation status of animals and vegetation types over large geographic regions. The data may or may not have been assessed for statistical accuracy. Data evaluation and improvement may be ongoing. The Biological Resources Division makes no claim as to the data's suitability for other purposes. This is writable data which may have been altered from the original product if not obtained from a designated data distributor identified above.

Metadata

Proper documentation of information sources and processes used to assemble GAP data layers is central to the successful application of GAP data. Metadata documents the legacy of the data for new users. The Federal Geographic Data Committee (FGDC 1994, 1995) has published standards for metadata and NBII (<<http://www.nbio.gov>>) has updated those standards to include biological profiles. Executive Order 12906 requires that any spatial data sets generated with federal dollars will have FGDC-compliant metadata.

Each spatial data layer submitted must be accompanied by its metadata (*.html file) in the same directory. You must also include an additional directory (called "meta_master") which will include each metadata file in three forms (*.txt, *.html, and *.sgml). These are readily created in MetaMaker (<<http://www.nbio.gov/about/factsheet/factsheet5.html>>). The redundancy in format is to provide one file for error checking (*.txt), one for presentation on the Internet (*.html), and one for indexing elements for the spatial data clearinghouse (*.sgml). Remember, metadata describes the development of the spatial data set being documented. If there are companion files to the GIS data, use metadata to reference (reports, spreadsheet, another GIS layer).

USGS personnel conduct metadata training to meet FGDC standards and to include biological data. See the Internet site, <<http://www.nbio.gov/metadata/training/index.html>> for more information.

Appropriate and Inappropriate Use of These Data

All information is created with a specific end use or uses in mind. This is especially true for GIS data, which is expensive to produce and must be directed to meet the immediate program needs. For GAP, minimum standards were set (see *A Handbook for Gap Analysis*, Scott et al. 1993) to meet program objectives. These standards include: scale or resolution (1:100,000 or 100 hectare minimum mapping unit), accuracy (80% accurate at 95% confidence), and format (ARC/INFO coverage tiled to the 30' x 60' USGS quadrangle). For complete project standards, refer to National GAP homepage (gapanalysis.nbio.gov).

Recognizing, however, that GAP would be the first, and for many years likely the only, source of statewide biological GIS maps, the data were created with the expectation that they would be used for other applications. Therefore, we list below both appropriate and inappropriate uses. This list is in no way exhaustive but should serve as a guide to assess whether a proposed use can or cannot be supported by GAP data. For most uses, it is unlikely that GAP will provide the only data needed, and for uses with a regulatory outcome, field surveys should verify the result. In the end, it will be the responsibility of each data user to determine if GAP data can answer the question being asked, and if they are the best tool to answer that question.

Scale: First we must address the issue of appropriate scale to which these data may be applied. The data were produced with an intended application at the ecoregion level, that is, geographic areas from several hundred thousand to millions of hectares in size. The data provide a coarse-filter approach to analysis, meaning that not every occurrence of every plant community or animal species habitat is mapped, only larger, more generalized distributions. The data are also based on the USGS 1:100,000 scale of mapping in both detail and precision. When determining whether to apply GAP data to a particular use, there are two primary questions: do you want to use the data as a map for the particular geographic area, or do you wish to use the data to provide context for a particular area? The distinction can be made with the following example: You could use GAP land cover to determine the approximate amount of oak woodland occurring in a county, or you could map oak woodland with aerial photography to determine the exact amount. You then could use GAP data to determine the approximate percentage of all oak woodland in the region or state that occurs in the county, and thus gain a sense of how important the county's distribution is to maintaining that plant community.

Appropriate Uses: The above example illustrates two appropriate uses of the data: as a coarse map for a large area such as a county, and to provide context for finer-level maps. Specific case-study examples are provided in [Appendix HH](#), but following is a general list of applications:

- Statewide biodiversity planning
- Regional (Councils of Government) planning
- Regional habitat conservation planning
- County comprehensive planning
- Large-area resource management planning

- Coarse-filter evaluation of potential impacts or benefits of major projects or plan initiatives on biodiversity, such as utility or transportation corridors, wilderness proposals, regional open space and recreation proposals, etc.
- Determining relative amounts of management responsibility for specific biological resources among land stewards to facilitate cooperative management and planning.
- Basic research on regional distributions of plants and animals and to help target both specific species and geographic areas for needed research.
- Environmental impact assessment for large projects or military activities.
- Estimation of potential economic impacts from loss of biological resource-based activities.
- Education at all levels and for both students and citizens.

Inappropriate Uses: It is far easier to identify appropriate uses than inappropriate ones, however, there is a "fuzzy line" that is eventually crossed when the differences in resolution of the data, size of geographic area being analyzed, and precision of the answer required for the question are no longer compatible. Examples include:

- Using the data to map small areas (less than thousands of hectares), typically requiring mapping resolution at 1:24,000 scale and using aerial photographs or ground surveys.
- Combining GAP data with other data finer than 1:100,000 scale to produce new hybrid maps or answer queries.
- Generating specific areal measurements from the data finer than the nearest thousand hectares (minimum mapping unit size and accuracy affect this precision).
- Establishing exact boundaries for regulation or acquisition.
- Establishing definite occurrence or non-occurrence of any feature for an exact geographic area (for land cover, the percent accuracy will provide a measure of probability).
- Determining abundance, health, or condition of any feature.
- Establishing a measure of accuracy of any other data by comparison with GAP data.
- Altering the data in any way and redistributing them as a GAP data product.
- Using the data without acquiring and reviewing the metadata and this report.

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GLOSSARY

aerial videography - video images of the land surface taken from an airplane

algorithm - a procedure to solve a problem or model a solution (In GAP typically refers to a GIS procedure used to model animal distributions.)

alliance level - a land unit made up of an "alliance" of natural communities that have the same dominant or co-dominant plant species or, in the absence of vegetation, by the dominant land cover typically described according to the Anderson land cover classification (see "Natural Community Alliance" in Grossman et al. 1995)

alpha diversity - a single within-habitat measure of species diversity regardless of internal pattern, generally over an area of 0.1 to 1,000 hectares (see Whittaker 1960, 1977) -

Anderson Level II - the second hierarchical level in the Anderson land cover classification system (see Anderson et al. 1976)

anthropogenic - caused by man

assemblages - a group of ecologically interrelated plant and animal species

band, spectral - a segment of the electromagnetic spectrum defined by a range of wavelengths (e.g. blue, green, red, near infrared, far infrared) that comprise the Landsat TM imagery

beta diversity - the change in species diversity among different natural communities of a landscape; an index of between-habitat diversity (see Whittaker 1960, 1977)

biodiversity - generally, the variety of life and its interrelated processes

biogeographic - relating to the geographical distribution of plants and animals

biological diversity - see biodiversity

cartographic - pertaining to the art or technique of making maps or charts

classify - to assign objects, features, or areas on an image to spectral classes based upon their appearance as opposed to 'classification' referring to a scheme for describing the hierarchies of vegetation or animal species for an area

coarse filter - the general conservation activities that conserve the common elements of the landscape matrix, as opposed to the "fine filter" conservation activities that are aimed at special cases such as rare elements (see Jenkins 1985)

community - a group of interacting plants and animals

cover type - a non-technical higher-level floristic and structural description of vegetation cover

cross-walking - matching equivalent land cover categories between two or more classification systems

delineate - identifying the boundaries between more or less homogenous areas on remotely sensed images as visible from differences in tone and texture

delta diversity - the change in species diversity between landscapes along major climatic or physiographic gradients (see Whittaker 1977)

digitization - entering spatial data digitally into a Geographic Information System

ecoregion - a large region, usually spanning several million hectares, characterized by having similar biota, climate, and physiography (topography, hydrology, etc).

ecosystem - a biological community (ranging in scale from a single cave to millions of hectares), its physical environment, and the processes through which matter and energy are transferred among the components

edge-matching - the process of connecting polygons at the boundary between two independently created maps, either between TM scenes or between state GAP data sets

element - a plant community or animal species mapped by GAP. May also be referred to as "element of biodiversity".

error of commission - the occurrence of a species (or other map category) is erroneously predicted in an area where it is in fact absent

error of omission - when a model fails to predict the occurrence of a species that is actually present in an area

exact set coverage - a basic optimization problem to determine the best method for identifying general areas that, when selected sequentially, would have the greatest positive cumulative impact on attaining adequate representation of any or all biotic elements of interest

extinction - disappearance of a species throughout its entire range

extirpation - disappearance of a species from part of its range

fine filter - see "coarse filter"

floristic - pertaining to the plant species that make up the vegetation of a given area.

formation level - the level of land cover categorization between Group and Alliance describing the structural attributes of a land unit, for example, "Evergreen Coniferous Woodlands with Rounded Crowns" (see Jennings 1993b)

gamma diversity - the species diversity of a landscape, generally covering 1,000 to 1,000,000 hectares, made up of more than one kind of natural community (see Whittaker 1977)

gap analysis - a comparison of the distribution of elements of biodiversity with that of areas managed for their long-term viability to identify elements with inadequate representation

geographic information systems - computer hardware and software for storing, retrieving, manipulating, and analyzing spatial data

Global Positioning System (GPS) - an instrument that utilizes satellite signals to pinpoint its location on the earth's surface

greedy heuristic - an algorithm for exact set cover analysis (see Kiester et al., in press)

ground truthing - verifying maps by checking the actual occurrence of plant and animal species in the field at representative sample locations

habitat - the physical structure, vegetational composition, and physiognomy of an area, the characteristics of which determine its suitability for particular animal or plant species

hectare - a metric unit of area of 10,000 square meters and equal to 2.47 acres

hex/hexagon - typically refers to the EPA EMAP hexagonal grid of 635 square kilometer units

hyperclustering - a efficient, interactive method for accurately analyzing and classifying remotely-sensed data that reduces data size and computational requirements while retaining the integrity of the original data

lotic - flowing, e.g., water in a stream or river

metadata - information about data, e.g., their source, lineage, content, structure, and availability

minimum mapping unit - the smallest area that is depicted on a map

neotropics - the zoo-geographic region stretching southward from the tropic of Cancer and including southern Mexico, Central and South America, and the West Indies

phenology - the study of periodic biological phenomena, such as flowering, breeding, and migration, especially as related to climate

phenotype - the environmentally and genetically determined observable appearance of an organism, especially as considered with respect to all possible genetically influenced expressions of one specific character

physiognomic - based on physical features

physiographic province - a region having a pattern of relief features or land forms that differ significantly from that of adjacent regions

pixel - the smallest spatial unit in a raster data structure

polygon - an area enclosed by lines in a vector-based Geographic Information System data layer or a region of contiguous homogeneous pixels in a raster system

preprocessing - those operations that prepare data for subsequent analysis, usually by attempts to correct or compensate for systematic, radiometric, and geometric errors

pro-active - acting in anticipation of an event as opposed to reacting after the fact

range - the geographic limit of the species

range unit - a spatial, geographic unit to record and display species geographic range.

reach - a stream or river segment between inflowing tributaries

registration, spatial - matching different images to each other by finding points on the images that can be matched to known points on the ground

remote sensing - deriving information about the earth's surface from images acquired at a distance, usually relying on measurement of electromagnetic radiation reflected or emitted from the feature of interest

resolution - the ability of a remote sensing system to record and display fine detail in a distinguishable manner or: the smallest feature that can be distinguished or resolved on a map or image, such as a TM pixel

scale, map - the ratio of distance on a map to distance in the real world, expressed as a fraction; the smaller the denominator, the larger the scale, e.g. 1:24,000 is larger than 1:100,000

sensitivity analysis - the consideration of a number of factors involved in the mathematical modeling of an ecosystem and its components. These include feedback and control, and the stability and sensitivity of the system as a whole to changes in some part of the system. Predictions can be made from the analysis.

simulated annealing - an algorithm used for set coverage analysis (see Kiester et al., in press)

species richness - the number of species of a particular interest group found in a given area

spectral cluster - a group of adjacent pixels that are uniform with respect to their brightness values

supervised classification - the process of classifying TM pixels of unknown identity by using samples of known identity (i.e., pixels already assigned to informational classes by ground truthing or registration with known land cover) as training data

synoptic - constituting a brief statement or outline of a subject; presenting a summary

tessellation - the division of a map into areas of equal and uniform shape such as the EPA- EMAP hexagon

Thematic Mapper - a sensor on LANDSAT 4 and 5 satellites that records information in seven spectral bands, has a spatial resolution of about 30 m x 30 m, and represents digital values in 256 levels of brightness per band

transect - a transversely cut line along which physical and biological observations are made

trophic structure - the various levels in a food chain, such as producers (plants), primary consumers (herbivores), and secondary consumers (carnivores)

Universal Transverse Mercator - one of several map projections or systems of transformations that enables locations on the spherical earth to be represented systematically on a flat map

Universal Transverse Mercator grid - a geographic reference system used as the basis for worldwide locational coding of information in a GIS or on a map

unsupervised classification - the definition, identification, labeling, and mapping of natural groups, or classes, of spectral values within a scene. These spectral classes are reasonably uniform in brightness in several spectral channels.

vector format - a data structure that uses polygons, arcs (lines), and points as fundamental units for analysis and manipulation in a Geographic Information System

virtual reality - a computer-generated simulation of reality with which users can interact using specialized peripherals such as data gloves and head-mounted computer graphic displays

wildlife habitat relationship model - a method of linking patterns of known habitat use by animal species with maps of existing vegetation, thereby identifying the spatial extent of important habitat features for use in conservation and management.

GLOSSARY OF ACRONYMS

ABI Association for Biodiversity Information
ACSM American Congress on Surveying and Mapping
ADAMAS Aquatic Database Management System
ADEM Alabama Department of Environmental Management
AML ARC/INFO Macro Language
ASPRS American Society for Photogrammetry & Remote Sensing
AVHRR Advanced Very High Resolution Radiometer (satellite system)
BaSIC Biodiversity and Spatial Information Center
BEST Biomonitoring of Environmental Status and Trends
BLM Bureau of Land Management
BRD Biological Resources Division
CAFF Conservation of Arctic Flora and Fauna
C-CAP Coastwatch Change Analysis Program (NOAA)
CDC Conservation Data Center
CEC Council on Environmental Cooperation
CENR Committee on Environment and Natural Resources
CERES California Environmental Resources Evaluation System
CIESIN Consortium for International Earth Science Information Network
CODA Conservation Options and Decision Analysis (software)
CRMP Coordinated Resource Management Plan
CRT Cathode ray tube (?)
CRUC Cooperative Research Unit Center
CWMTF Clean Water Management Trust Fund
DLG-E Digital line graph – enhanced
Dedicated Nature Preserves
DOI Department of the Interior
DPR Divisions of Parks and Recreation
EDC EROS Data Center
ECOMAP The National Hierarchical Framework of Ecological Units mapping project of the USDA Forest Service
EMAP Environmental Monitoring & Assessment Program
EMAP-LC EMAP-Landscape Characterization (USEPA)
EMSL Environmental Monitoring & Systems Laboratory (USEPA)
EMTC Environmental Management Technical Center (NBS)
EOS Earth Observing System
EOSAT Earth Observation Satellite Company (the commercial operator of the Landsat satellite system)
EOSDIS EOS Data & Information System
ERL Environmental Research Laboratory, Corvallis (USEPA)
EROS Earth Resources Observation Systems (USGS)
ESRI Environmental Systems Research Institute
ETM+ Enhanced Thematic Mapper plus
FGDC Federal Geographic Data Committee
FTP file transfer protocol
FY Fiscal Year
GAO General Accounting Office (Congress)
GAP Gap Analysis Program
GCDIS Global Change Data and Information System
GEDE Gap Ecosystem Data Explorer
GLIS Global Land Information System (USGS)
GLOBE Global Learning and Observations to Benefit the Environment
GPS Global Positioning System
GRASS Geographic Resources Analysis Support System

GRIS Geographic Resource Information Systems
 HRMSI High Resolution Multispectral Stereo Imager
 IALE International Association of Landscape Ecology
 IDRISI A GIS developed by Clark University
 LAPS Land Acquisition Priority System
 LC/LU Land Cover/Land Use (USGS)
 MIPS Map and Image Processing System
 MOU Memorandum of Understanding
 MMU Minimum mapping unit
 MRLC Multi-Resolution Land Characteristics Consortium
 MSS Multi-Spectral Scanner
 MTPE Mission to Planet Earth
 MUIR Map Unit Interpretation Records
 NAFTA North American Free Trade Agreement
 NALC North American Landscape Characterization (USEPA, USGS)
 NAWQA National Water Quality Assessment (USGS)
 NBII National Biological Information Infrastructure
 NBS National Biological Service
 NCCP Natural Communities Conservation Planning program (in CA)

NDCDB National Digital Cartographic Data Base
 NED National Elevation Dataset
 NERC National Ecology Research Center (Ft. Collins, CO)
 NGO Non-governmental Organization
 NHP Natural Heritage Program
 NMD National Mapping Division
 NPS National Park Service
 NRCS Natural Resource Conservation Service
 NS NatureServe
 NSCM North Carolina Museum of Natural Sciences
 NSDI National Spatial Data Infrastructure
 NSTC National Science and Technology Council
 NWI National Wetlands Inventory (USFWS)
 OMB Office of Management and Budget (Administration)
 OSIS Oregon Species Information System
 OWASA Orange County Water and Sewer Authority
 PARC Public Access Resource Center
 PI Principal Investigator
 RTNCF Roanoke, Tar, Neuse, and Cape Fear Ecosystem
 SAB Science Advisory Board (USEPA)
 SCICOLL Scientific Collections Permit Database
 SDTS Spatial Data Transfer Standard
 SGID State Geographic Information Database
 SNEP Sierra Nevada Ecosystem Project
 SOFIA Southern Forest Inventory and Analysis
 SPOT Système Pour l'Observation de la Terre
 SSURGO Soil Survey Geographic Database
 STATSGO State Soil Geographic Database
 RMSE Root mean square error
 TIGER Topologically Integrated Geographic Encoding and Referencing system (used for U.S. census)
 TM Thematic Mapper
 TNC The Nature Conservancy
 TRMI Topographic Relative Moisture Index
 UNESCO United Nations Educational, Scientific, and Cultural Organization

URISA Urban and Regional Information Systems Association.
URL Universal Resource Locator
USGS US Geological Survey
USFS US Forest Service
USFWS US Fish & Wildlife Service
UTM Universal Transverse Mercator
UVM University of Vermont
VCA Vertebrate Characterization Abstracts
WHRM Wildlife/habitat relationship model
WISCLAND Wisconsin Initiative for Statewide Cooperation on Landscape Analysis and Data
WRC Wildlife Resources Commission

North Carolina Gap Analysis Land Cover Classes

Category	Map Code	Map Unit Name	Map Unit Description	NC Natural Heritage Equivalent	NLCD Equivalent
	0	No data			
maritime	3	Tidal Marsh	Fresh and brackish tidal marshes, including cord grass, wild rice, sawgrass and needlerush alliances.	Brackish Marsh, Interdune pond, Maritime wet grassland	92 Herbaceous Wetland
water	8	Open water	Open water without aquatic vegetation.	No equivalent	11 Open Water
wet forest deciduous	15	Seepage and Streamhead Swamps	Includes extensive peat flats in the coastal plain, dominated by swamp tupelo, maples, and Atlantic white cedar alliances. In the sandhills includes streamhead pond pine and bay forests alliances. Saturated hydrology.	Bay Forest, Small Depression Pocosin, Streamhead Atlantic White Cedar Forest, Streamhead Pocosins	91 Woody Wetland
maritime shrub	17	Maritime Forests and Hammocks	Maritime forests and woodlands dominated by live or sand laurel oak. Estuarine Fringe forests dominated by loblolly pine.	Coastal Fringe Evergreen Forest, Maritime Deciduous Forest, Maritime Deciduous Forest	42 Evergreen Forest
coniferous	20	Coniferous Regeneration	Regenerating pine stands. Predominantly loblolly pine, but slash and longleaf stands occur as well.	No equivalent	42 Evergreen Forest
forest coniferous	21	Coniferous Cultivated Plantation (natural / planted)	Managed pine plantations, densely planted. Most planted stands are loblolly, but slash and longleaf occur as well.	No equivalent	42 Evergreen Forest
wet forest deciduous	30	Cypress-Gum Floodplain Forests	Swamps dominated by black or swamp tupelo with or without Taxodium. Seasonally to semi-permanently flooded hydrology.	Cypress-Gum Swamps	91 Woody Wetland
forest deciduous	36	Successional Deciduous Forests	Regenerating deciduous trees with a shrub stature. Commonly dominated by sweetgum, tulip poplars and maples.	No equivalent	41 Deciduous Forest
wet forest coniferous	41	Peatland Atlantic White-Cedar Forest	Dense stands of Atlantic white cedar with saturated hydrology. Can include swamp tupelo, red maple, and pond pines with a moderate shrub and herb layer.	Peatland Atlantic White-Cedar Forest	91 Woody Wetland
forest coniferous	42	Xeric Longleaf Pine	Sandhills including a range of longleaf pine density from predominantly wiregrass, scrub oak dominated to true longleaf pine woodland. This does not include mesic or saturated flatwood types.	Xeric Sandhill Scrub, Pine/Scrub Oak Sandhill, Coastal Fringe Sandhill	42 Evergreen Forest
forest mixed	46	Xeric Oak - Pine Forests	Mixed forest dominated by yellow pines with white or northern red oaks co-dominating.	Pine Oak Heath	43 Mixed Forest
coastal plain	49	Coastal Plain Oak Bottomland Forest	Bottomland forests dominated by deciduous oak alliances. Oaks represented can include swamp chestnut, cherrybark, willow, and/or overcup oak. Inclusions of loblolly pine temporarily flooded forests occur in patches. Hydrology is temporarily to seasonal	Coastal Plain Bottomland Hardwoods (in part) blackwater subtype, brownwater subtype	91 Woody Wetland
coastal plain	50	Coastal Plain Mixed Bottomland Forests	Includes forests dominated by a variety of hardwood species, including sweetgum, cottonwood, red maple.	Coastal Plain Bottomland Hardwood (in part), Coastal Plain Levee Forest	91 Woody Wetland
forest deciduous	51	Deciduous Cultivated Plantation	Planted deciduous trees. Includes sweetgum and sycamore plantations.	No equivalent	41 Deciduous Forest
barren	60	Sand	Exposed sand, predominantly in the sandhills region where disturbance or the extreme site conditions prevent natural regeneration.	No equivalent	31 Barren - rock, sand
coastal plain	63	Coastal Plain Mesic Hardwood Forests	Beech dominated forests with white oak and northern red oak as possible co-dominants. Dry-mesic to mesic forests on slopes and small stream bottoms in the coastal plain.	Mesic Mixed Hardwood Forest, Basic Mesic Forests	41 Deciduous Forest
wet forest coniferous	67	Wet Longleaf or Slash Pine Savanna	Wet flatwoods and pine savannas, typically dominated by longleaf pines, but slash or pond pines may be the dominant pines.	Wet Pine Flatwoods	91 Woody Wetland
maritime	75	Tidal Swamp Forest	Swamp tupelo dominated forest with or without black tupelo and/or cypress trees. Restricted to the tidal zones in the coastal plain. May have inclusions of coastal red cedar woodlands.	Tidal cypress - gum swamp	91 Woody Wetland
wet forest deciduous	78	Pond-Cypress - Gum Swamps, Savannas and Lakeshores	Cypress dominated swamps and lakeshores. Can include bays dominated by pond cypress or shorelines of coastal plain lakes with a narrow band of cypress.	Non-riverine Swamp Forest, Natural Lakeshores (in part)	91 Woody Wetland
wet forest coniferous	87	Pocosin Woodlands and Shrublands	Includes pond pine woodland, low pocosin and high pocosin shrub dominated areas. Canebrakes and bay forests may be present.	Pond Pine Woodlands, Peatland Canebrake, Small Depression Pocosin	91 Woody Wetland
forest coniferous	97	Mesic Longleaf Pine	Longleaf pine woodlands without a major scrub oak component. Slash or loblolly pines may be present as well.	Mesic Pine Flatwoods	42 Evergreen Forest
maritime	121	Maritime Pinelands	Loblolly forests and woodlands of the outer coastal plain.	Estuarine Fringe Loblolly Pine Forest	42 Evergreen Forest
maritime	124	Maritime Scrubs and Tidal Shrublands	Coastal shrubs including wax-myrtle, swamp rose, alder, yaupon, and greenbriar.	Maritime Shrubs, Salt Shrub	51 Shrubland
wet forest deciduous	126	Interdune Wooded Depression Swamp	Includes swamps dominated by sweetbay and swampbay or dogwood dominated forests.	Maritime Shrub Swamp, Maritime Swamp Forest	91 Woody Wetland
coastal plain	138	Coastal Plain Dry to Dry-Mesic Oak Forests	Oak dominated forests of the coastal plain. Includes white oak forests with water oak or northern red oak and hickories as co-dominants.	Dry Mesic Oak Hickory Forest, Basic Oak Hickory Forest, Dry Oak Hickory Forest	41 Deciduous Forest
coastal plain	158	Coastal Plain Nonriverine Wet Flat Forests	Loblolly pine - Atlantic white-cedar - red maple - swamp tupelo saturated forests as well as forests dominated by loblolly, sweetgum, and red maple in non-riverine flats.	Non-riverine Wet Hardwood Forest	91 Woody Wetland

North Carolina Gap Analysis Land Cover Classes

Category	Map Code	Map Unit Name	Map Unit Description	NC Natural Heritage Equivalent	NLCD Equivalent
coastal plain agriculture	173	Coastal Plain Riverbank Shrubs	Shrub dominated riverbanks, commonly dominated by willows and/or alders.	Sand and Mud Bar	51 Shrubland
	180	Agricultural Crop Fields	Farm fields used for row crops.	No equivalent	82 Agriculture - Row Crops
human dominated	202	Residential Urban	Includes vegetation interspersed in residential areas. Includes lawns, mixed species woodlots, and horticultural shrubs. Vegetation accounts for between 20 - 70% of the cover.	No equivalent	21 Urban - Low Intensity Residential
human dominated	203	Urban Low-Intensity Developed	Highly developed areas with vegetation accounting for < 20% of the cover.	No equivalent	22 Urban - High Intensity Residential
human dominated	204	Urban High-Intensity Developed and Transportation Corridors	Highly developed areas including infrastructure such as roads, railroads. Vegetation represents < 20% of the cover.	No equivalent	23 Urban - Commercial
agriculture	205	Agricultural Pasture/Hay and Natural Herbaceous	Farm fields used for pasture grass or hay production, as well as old fields dominated by native and exotic grasses.	No equivalent	81 Agriculture - Hay, Pasture
barren	213	Barren; quarries, strip mines, and gravel pits	Quarries, strip mines, or gravel pits.	No equivalent	32 Barren - Quarries
barren	214	Barren; bare rock and sand	Areas of bare rock, sand or clay.	No equivalent	31 Barren - Rock, Sand
piedmont	220	Piedmont Xeric Pine Forests	Dry to xeric pine forests dominated by Virginia pine, shortleaf pine or Eastern Red Cedar.	Pine Oak Heath	42 Evergreen Forest
piedmont	222	Piedmont Dry-Mesic Pine Forests	Loblolly dominated forests resulting from succession following clearing. This type occurs on all moisture regimes following disturbance with the exception of the extremely xeric sites.	No equivalent	42 Evergreen Forest
piedmont	226	Piedmont Xeric Woodlands	Generally post and blackjack oak dominated woodlands. White ash and pignut hickory can be found in combination with Eastern red cedar on glades.	Xeric Hardpan Forest	41 Deciduous Forest
piedmont	228	Piedmont/ Mountains Dry-Mesic Oak and Hardwood Forests	Primarily oak dominated forests, white oak is often dominant, with co-dominants including . Also represented by sweetgum and tulip poplar dominated forests.	Dry Mesic Oak Hickory Forest, Basic Oak Hickory Forest, Dry Oak Hickory Forest	41 Deciduous Forest
piedmont forest mixed	230	Piedmont Mesic Forest	American Beech - Red Oak - White Oak Forests.	Mesic Mixed Hardwood	41 Deciduous Forest
piedmont forest mixed	232	Xeric Pine-Hardwood Woodlands and Forests	Mixed forest dominated by yellow pines with drier oaks including southern red, post, and chestnut oaks.	Dry Oak Hickory Forest	43 Mixed Forest
piedmont	238	Piedmont/Mountain Submerged Aquatic Vegetation	Seasonally to permanently flooded areas with aquatic vegetation. Waterlily, pondweed, hydrilla smartweed are a few of the species that can occur.	Piedmont/Mountain Semipermanent Impoundment (in part)	92 Herbaceous Wetland
piedmont	239	Piedmont/Mountain Emergent Vegetation	Emergent vegetation of all wetland hydrologies. Sites would commonly support species such as tussock sedge, rushes, and cattail alliances.	Rocky Bar and Shore (in part)	92 Herbaceous Wetland
wet shrubs	267	Riverbank Shrublands	Riverside shrubs with temporarily flooded hydrologies. Found in the both the Mountains and Piedmont. Containing dominants such as smooth alder and a Carolina or black willows.	Sand and Mud Bar	91 Woody Wetland
wet shrubs	269	Floodplain Wet Shrublands	Saturated shrublands of the Piedmont, includes buttonbush, swamp-loosestrife, decodon and alders.	Piedmont/mountain Semipermanent Impoundment	91 Woody Wetland
maritime	371	Maritime Grasslands	Dune grass community consisting of sea oats and beach grasses.	Dune grass, Maritime dry grassland	92 Herbaceous Wetland
maritime	372	Interdune Herbaceous Wetlands	Dune swales with permanently flooded to intermittently exposed hydrology. Species composition depends on salinity and can include cut grass, spike-rush, mosquito fern, and hornwort.	Interdune Pond, Maritime Wet Grasslands	92 Herbaceous Wetland
maritime	375	Hypersaline coastal salt flats	Tidal flats within salt marshes, including saltmeadow cordgrass or sea-purslane dominated alliances.	Salt Marsh	31 Barren - Rock, Sand
barren	378	Ocean Beaches	Open beach sand.	Upper Beach	31 Barren - Rock, Sand
coastal plain	380	Coastal Plain Fresh Water Emergent	Emergent vegetation in fresh water seepage bogs, ponds and riverbeds of the coastal plain. Includes alliances dominated by sedges, eelgrass, as well as cane found in unforested cane-brakes.	Small Depression Pond, Sandhill Seep, Floodplain Pool, Unforested Floodplain Canebrake, Riverscour Prairies, Vernal Pools	92 Herbaceous Wetland
forest mixed	382	Dry Mesic Oak Pine Forests	Mixed forests of the coastal plain and piedmont. Includes loblolly pine with white, southern red and/or post oak and loblolly with water oak. On basic sites of the piedmont, eastern red cedar may co-occur with post, black, and blackjack oaks.	Dry Mesic Oak Hickory Forest, Xeric Hard Pan Forest, Chestnut Oak Forest, Dry Mesic Oak Hickory Forest, Dry Oak Hickory Forest	43 Mixed Forest
piedmont	383	Coastal Plain Mixed Successional Forest	Generally loblolly mixed with successional hardwoods. Sweetgum, tulip poplar and red maple are common co-dominants in these successional forests.	No equivalent	43 Mixed Forest
piedmont	384	Piedmont/Mountain Mixed Bottomland Hardwood Forests	Includes temporarily to seasonally forests dominated by hardwood species. Hardwoods include sweetgum, red maple, sycamore which co-occur in a mosaic of bottomland and levee positions. Includes alluvial hardwood forests in the mountains. Hemlock and whi	Piedmont/Mountain Alluvial Forest, Piedmont/Mountain Levee Forest	91 Woody Wetland

North Carolina Gap Analysis Land Cover Classes

Category	Map Code	Map Unit Name	Map Unit Description	NC Natural Heritage Equivalent	NLCD Equivalent
wet forest deciduous high elevation	385	Piedmont Oak Bottomland Forest and Swamp Forest	The swamp chestnut oak, cherrybark oak, shumard oak and sweetgum alliance is one representative. Other alliances are dominated by water, willow, and overcup oaks. Swamp forests can be dominated by sweetgum, red maple, and black gum being dominant. Lobl	Piedmont/Mountain Bottomland Forest, Piedmont/Mountain Swamp Forest	91 Woody Wetland
montane	517	Hemlock Floodplain Forest	Alluvial forest with hemlock and/or white pine in mountains and western piedmont. Hydrology is generally temporarily to seasonally flooded.	Canada Hemlock Forest	91 Woody Wetland
montane	518	Dry Mesic Oak Forest	Low to mid-elevation oak dominated forests. Species include white, Northern red, Southern red, and rock chestnut oaks.		41 Deciduous Forest
montane	519	Dry Mesic Mixed Forest	Low to mid-elevation oak-pine forests with loblolly, Virginia, short leaf pines, as well as Eastern red-cedar in combination with the dry mesic oak species.		43 Mixed Forest
montane	520	Mesic Hardwood Forest	Mesic Forests of low to mid-elevations in the mountains. American Beech, tuliptree, pignut hickory, and sugar maple are common.		41 Deciduous Forest
high elevation	521	Spruce/Fir Forest	High Elevation Frazer-Fir - Red Spruce, Red Spruce and Red-Spruce-Yellow Birch Forests. Tree densities included here include both woodland to forest density. Highly intermixed with Northern Hardwoods, Grassy Balds, and Shrub Balds.	Red Spruce--Fraser Fir Forest, Fraser Fir Forest	42 Evergreen Forest
high elevation	522	Northern Hardwood Forest	High Elevation forests including yellow birch, American beech, and yellow buckeye. Includes forests with Hemlock and Yellow Birch.	Northern Hardwoods Forest, Boulderfield Forest	41 Deciduous Forest
high elevation	523	Grassy Bald	High Elevation grassy balds including Pennsylvania sedge, mountain oatgrass, as well as shrubby areas dominated by Alleghany and smooth blackberry.	Grassy Bald	71 Herbaceous Upland
high elevation	524	Shrub Bald	Variable phenologies, predominantly evergreen balds with rhododendron and Mountain laurels. Deciduous shrubs including green alder and Alleghany and smooth blackberry are included as well. Red Oak - Chestnut Oak Woodlands may be included in cases where	Heath Bald	51 Shrubland
high elevation	525	Appalachian Oak Forest	A variety of oak forest types including Black, White, Scarlet Oaks in dry to mesic situations. Includes forests historically co-dominated by American Chestnut.	High Elevation Red Oak Forest, Montane White Oak Forest	41 Deciduous Forest
high elevation	526	Appalachian Cove Forest	Mixed Mesophytic forests of the mountains. Includes tuliptree, basswood, yellow buckeye and surgar maple. This class is mapped to include cove forests dominated or co-dominated by hemlock.	Rich Cove Forest, Acidic Cove Forest	41 Deciduous Forest
high elevation	527	Appalachian Hemlock	Upland hemlock forests of the mountains region. Vary from side slopes to steep slope positions.	Canada Hemlock Forest	42 Evergreen Forest
high elevation	528	Appalachian Xeric Pine Forest	Pine forests and woodlands on xeric sites. A variety of pines, including Virginia, Shortleaf, Eastern White Pine, Table Mountain and Pitch pine. Often small areas of dense pine within a matrix of Xeric Oak-Pine Forests.	Pine Oak Heath	42 Evergreen Forest
high elevation	529	Appalachian Xeric Mixed Forest	Mixed forests with Virginia, Shortleaf, Eastern White Pine, Table Mountain and Pitch pines in combination with xeric oak species. Oaks include, white, Southern Red, black, and rock chestnut.	Pine Oak Heath	43 Mixed Forest
high elevation	530	Appalachian Xeric Deciduous Forest	Deciduous forests in the mountains dominated by Xeric Oak species. Species include, white, Southern red, black, and rock chestnut.	High Elevation Red Oak Forest, Montane White Oak Forest	41 Deciduous Forest
high elevation	533	Appalachian Swamp Forest	Evergreen and deciduous forests with saturated hydrologies. This class may contain a variety of trees species, including hemlock - red maple, pitch pine, and white pine forests.	Swamp Forest-Bog Complex, Southern Appalachian Bog, Southern Appalachian Fen	91 Woody Wetland
high elevation	534	Appalachian Wet Shrubland/ Herbaceous	Saturated shrubs and herbaceous vegetation. Often mapped as an inclusion in Appalachian Swamp Forest.	Southern Appalachian Bog, Southern Appalachian Fen	91 Woody Wetland
high elevation	535	Talus/Outcrops/Cliffs	Includes seep talus slopes with sparse vegetation, as well as outcrops including, granitic outcrops. Some outcrops will have been mapped as barren rock.	No equivalent	31 Barren - Rock, Sand

Appendix B. NatureServe alliances present in North Carolina and the crosswalked equivalent NC-GAP land cover map unit. Alliances are presented within the hierarchy ecological groups.

Ecological Group Name	Group Code	Subgroup Code	Gap Map Unit Name	NC GAP Map Code	Notes	Alliance Code	Alliance Name	Alliance Key Code
110. Atlantic and Gulf								
Coast Tidal Marshes	110	110-10 Tidal Marshes		3		V.A.5.N.k.29	SPARTINA PATENS SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1390
	110	110-10 Tidal Marshes		3		V.A.5.N.n.1	SPARTINA ALTERNIFLORA TIDAL HERBACEOUS ALLIANCE	A.1471
	110	110-10 Tidal Marshes		3		V.A.5.N.n.10	SPARTINA CYNOSUROIDES TIDAL HERBACEOUS ALLIANCE	A.1480
	110	110-10 Tidal Marshes		3		V.A.5.N.n.14	ZIZANIA AQUATICA TIDAL HERBACEOUS ALLIANCE	A.1484
	110	110-10 Tidal Marshes		3		V.A.5.N.n.15	ZIZANIOPSIS MILIACEA TIDAL HERBACEOUS ALLIANCE	A.1485
	110	110-10 Tidal Marshes		3		V.A.5.N.n.2	TYPHA (ANGUSTIFOLIA, DOMINGENSIS) TIDAL HERBACEOUS ALLIANCE	A.1472
	110	110-10 Tidal Marshes		3		V.A.5.N.n.3	CLADIUM MARISCUS SSP. JAMAICENSE TIDAL HERBACEOUS ALLIANCE	A.1473
	110	110-10 Tidal Marshes		3		V.A.5.N.n.4	ELEOCHARIS FALLAX - ELEOCHARIS ROSTELLATA TIDAL HERBACEOUS ALLIANCE	A.1474
	110	110-10 Tidal Marshes		3		V.A.5.N.n.5	JUNCUS ROEMERIANUS TIDAL HERBACEOUS ALLIANCE	A.1475
	110	110-10 Tidal Marshes		3		V.A.5.N.n.8	SCIRPUS PUNGENS TIDAL HERBACEOUS ALLIANCE	A.1478
	110	110-10 Tidal Marshes		3		V.B.2.N.g.8	NUPHAR LUTEA TIDAL HERBACEOUS ALLIANCE	A.1708
	110	110-20 Tidal Shrublands		124		III.A.2.N.I.1	MYRICA CERIFERA - ROSA PALUSTRIS TIDAL SHRUBLAND ALLIANCE	A.806
	110	110-20 Tidal Shrublands		124		III.B.2.N.h.1	BACCHARIS HALIMIFOLIA - IVA FRUTESCENS TIDAL SHRUBLAND ALLIANCE	A.1023
	110	110-20 Tidal Shrublands		124		III.B.2.N.h.2	ALNUS (INCANA, SERRULATA) TIDAL SHRUBLAND ALLIANCE	A.1024
	110	110-20 Tidal Shrublands		124		III.B.2.N.h.4	BORRICHIA FRUTESCENS TIDAL SHRUBLAND ALLIANCE	A.1026
	110	110-30 Hypersaline Coastal Salt Flats		375		IV.A.2.N.c.5	SARCOCORNIA PERENNIS - (DISTICHLIS SPICATA, SPARTINA ALTERNIFLORA) TIDAL DWARF-S	A.1705
	110	110-30 Hypersaline Coastal Salt Flats		375		V.A.5.N.n.11	SPARTINA PATENS - (DISTICHLIS SPICATA) TIDAL HERBACEOUS ALLIANCE	A.1481
	110	110-30 Hypersaline Coastal Salt Flats		375		VII.C.2.N.d.3	SESUVIUM SPP. - ATRIPLEX SPP. - SUAEDA SPP. TIDAL SPARSELY VEGETATED ALLIANCE	A.1868
120. Atlantic and Gulf								
Coast Beaches	120	120-10 Ocean Beaches		378		VII.C.2.N.a.2	CAKILE EDENTULA SPARSELY VEGETATED ALLIANCE	A.1861
130. Seagrass and								
Estuarine Aquatic Beds	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		V.B.2.N.g.1	ERIOCAULON PARKERI TIDAL HERBACEOUS ALLIANCE	A.1701
	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		V.B.2.N.g.10	SAGITTARIA SUBULATA - LIMOSELLA AUSTRALIS TIDAL HERBACEOUS ALLIANCE	A.1710
	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		V.C.1.N.b.3	HALODULE BEAUDETTEI PERMANENTLY FLOODED - TIDAL HERBACEOUS ALLIANCE	A.1734
	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		V.C.2.N.b.1	ZOSTERA MARINA PERMANENTLY FLOODED - TIDAL HERBACEOUS ALLIANCE	A.1766
	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		V.C.2.N.b.4	RUPPIA MARITIMA PERMANENTLY FLOODED - TIDAL TEMPERATE HERBACEOUS ALLIANCE	A.1769
	130	130-X Seagrass and Estuarine Aquatic Beds		8 NLCD Class 11		VII.C.4.N.d.1	ISOETES RIPARIA TIDAL SPARSELY VEGETATED ALLIANCE	A.1879
140. Atlantic and Gulf								
Coast Maritime								
Grasslands	140	140-10 Maritime Grasslands		371		IV.A.1.N.a.4	HUDSONIA TOMENTOSA DWARF-SHRUBLAND ALLIANCE	A.1062
	140	140-10 Maritime Grasslands		371		V.A.5.N.a.9	UNIOLA PANICULATA TEMPERATE HERBACEOUS ALLIANCE	A.1199
	140	140-10 Maritime Grasslands		371		V.A.5.N.c.12	MUHLENBERGIA FILIPES HERBACEOUS ALLIANCE	A.1217
	140	140-10 Maritime Grasslands		371		V.A.5.N.c.2	AMMOPHILA BREVILIGULATA HERBACEOUS ALLIANCE	A.1207
	140	140-10 Maritime Grasslands		371		V.A.5.N.e.1	SPARTINA PATENS - (SCIRPUS PUNGENS) HERBACEOUS ALLIANCE	A.1274
	140	140-10 Maritime Grasslands		371		VII.C.1.N.b.2	UNSTABILIZ	A.1858
150. Atlantic and Gulf								
Coast Maritime Scrubs	150	150-10 Maritime Scrubs		124		III.A.2.N.c.32	QUERCUS VIRGINIANA - ILEX VOMITORIA - (MYRICA CERIFERA) SHRUBLAND ALLIANCE	A.785
	150	150-10 Maritime Scrubs		124		III.A.2.N.i.100	MYRICA CERIFERA SATURATED SHRUBLAND ALLIANCE	A.1906
	150	150-10 Maritime Scrubs		124		III.B.2.N.a.16	SMILAX SPP. - TOXICODENDRON RADICANS VINE-SHRUBLAND ALLIANCE	A.909
	150	150-10 Maritime Scrubs		124		III.B.2.N.a.9	MYRICA PENNSYLVANICA - (PRUNUS MARITIMA) SHRUBLAND ALLIANCE	A.902
	150	150-10 Maritime Scrubs		124		V.A.7.N.g.1	SCHIZACHYRIUM SCOPARIUM SSP. LITTORALE SHRUB HERBACEOUS ALLIANCE	A.1533
230. Temperate Tidal								
Swamp Forests and								
Woodlands	230	230-10 Tidal Swamp Forests		75		I.B.2.N.h.1	FRAXINUS PENNSYLVANICA - ACER RUBRUM - ULMUS AMERICANA TIDAL FOREST ALLIANCE	A.356

	230	230-10 Tidal Swamp Forests	75	I.B.2.N.h.2	NYSSA BIFLORA - (NYSSA AQUATICA, TAXODIUM DISTICHUM) TIDAL FOREST ALLIANCE	A.357
	230	230-10 Tidal Swamp Forests	75	II.A.4.N.g.100	JUNIPERUS VIRGINIANA VAR. SILICICOLA TIDAL WOODLAND ALLIANCE	A.1887
	230	230-10 Tidal Swamp Forests	75	II.B.2.N.f.1	ACER RUBRUM - FRAXINUS PENNSYLVANICA TIDAL WOODLAND ALLIANCE	A.658
	230	230-10 Tidal Swamp Forests	75	II.B.2.N.f.2	TAXODIUM DISTICHUM TIDAL WOODLAND ALLIANCE	A.659
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240. Southeastern Coastal Plain Maritime Pinelands						
	240	240-10 Maritime Pinelands	121	I.A.8.N.b.16	PINUS TAEDA FOREST ALLIANCE	A.130
	240	240-10 Maritime Pinelands	121	I.A.8.N.e.2	PINUS TAEDA TEMPORARILY FLOODED FOREST ALLIANCE	A.170
	240	240-10 Maritime Pinelands	121	I.A.8.N.g.300	PINUS TAEDA SATURATED FOREST ALLIANCE	A.3009
	240	240-10 Maritime Pinelands	121	II.A.4.N.a.28	PINUS TAEDA WOODLAND ALLIANCE	A.526
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250. Southeastern Coastal Plain Interdune Wetlands						
	250	250-10 Interdune Wooded Depression Swamps	126	I.A.4.N.g.3	MAGNOLIA VIRGINIANA - PERSEA PALUSTRIS SATURATED FOREST ALLIANCE	A.60
	250	250-10 Interdune Wooded Depression Swamps	126	I.B.2.N.e.4	CORNUS FOEMINA SEASONALLY FLOODED FOREST ALLIANCE	A.319
	250	250-10 Interdune Wooded Depression Swamps	126	II.B.2.N.c.100	SALIX CAROLINIANA SEASONALLY FLOODED WOODLAND ALLIANCE	A.1914
	250	250-20 Interdune Herbaceous Wetlands	372	V.A.5.N.j.2	ANDROPOGON GLOMERATUS TEMPORARILY FLOODED HERBACEOUS ALLIANCE	A.1338
	250	250-20 Interdune Herbaceous Wetlands	372	V.A.5.N.k.1	PANICUM VIRGATUM SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1362
	250	250-20 Interdune Herbaceous Wetlands	372	V.A.5.N.k.16	ALLIANCE	A.1377
	250	250-20 Interdune Herbaceous Wetlands	372	V.A.5.N.k.31	TYPHA DOMINGENSIS SEASONALLY FLOODED TEMPERATE HERBACEOUS ALLIANCE	A.1392
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270. Southeastern Coastal Plain Xeric and Dry-mesic Hardwood Hammocks						
	270	270-20 Inland Dry-mesic Oak Hammocks	17	I.A.4.N.a.2	QUERCUS HEMISPHERICA FOREST ALLIANCE	A.53
	270	270-20 Inland Dry-mesic Oak Hammocks	17	II.A.2.N.a.3	QUERCUS VIRGINIANA - JUNIPERUS VIRGINIANA - (SABAL PALMETTO) WOODLAND ALLIANCE	A.479
	270	270-20 Inland Dry-mesic Oak Hammocks	17	V.B.2.N.h.100	POLYGONUM SPP. (SECTION PERSICARIA) SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1881
	270	270-20 Broadleaf Maritime Forests and Hammocks	17	I.A.4.N.a.4	QUERCUS VIRGINIANA - (SABAL PALMETTO) FOREST ALLIANCE	A.55
	270	270-30 Broadleaf Maritime Forests and Hammocks	17	I.C.2.N.a.2	FAGUS GRANDIFOLIA - MAGNOLIA GRANDIFLORA FOREST ALLIANCE	A.369
	270	270-30 Broadleaf Maritime Forests and Hammocks	17	I.C.3.N.a.29	QUERCUS FALCATA - FAGUS GRANDIFOLIA - PINUS TAEDA FOREST ALLIANCE	A.409
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290. Southeastern Coastal Plain Upland Longleaf Pinelands						
	290	290-10 Xeric Longleaf Pine	42	II.A.4.N.a.1	PINUS PALUSTRIS / QUERCUS SPP. WOODLAND ALLIANCE	A.499
	290	290-20 Mesic Longleaf Pine	97	II.A.4.N.a.1	PINUS PALUSTRIS / QUERCUS SPP. WOODLAND ALLIANCE	A.499
	290	290-20 Mesic Longleaf Pine	97	I.A.8.N.b.9	PINUS PALUSTRIS - (PINUS ELLIOTTII) FOREST ALLIANCE	A.123
	290	290-20 Mesic Longleaf Pine	97	II.A.4.N.a.22	PINUS PALUSTRIS WOODLAND ALLIANCE	A.520
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300. Southeastern Coastal Plain Wet Pine Savanna and Flatwood Pinelands						
	300	300-10 Wet Longleaf or Slash Pine Savanna	67	II.A.4.N.f.6	PINUS PALUSTRIS - PINUS (ELLIOTTII, SEROTINA) SATURATED WOODLAND ALLIANCE	A.578
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310. Southeastern Depression Forests and Shrublands						
	310	310-20 Pond-cypress - Gum Dome Swamps and Savannas	78	I.B.2.N.e.21	TAXODIUM ASCENDENS SEASONALLY FLOODED FOREST ALLIANCE	A.336
	310	310-20 Pond-cypress - Gum Dome Swamps and Savannas	78	I.B.2.N.e.9	NYSSA (AQUATICA, BIFLORA, OGECHE) POND SEASONALLY FLOODED FOREST ALLIANCE	A.324
	310	310-20 Pond-cypress - Gum Dome Swamps and Savannas	78	II.B.2.N.c.4	TAXODIUM ASCENDENS SEASONALLY FLOODED WOODLAND ALLIANCE	A.651
	310	310-30 Pocosin Depressions	87 see Peatland Pocosin	II.A.4.N.f.9	PINUS SEROTINA SATURATED WOODLAND ALLIANCE VACCINIUM FORMOSUM - VACCINIUM FUSCUM SEASONALLY FLOODED SHRUBLAND	A.581
	310	310-30 Pocosin Depressions	87	III.B.2.N.e.7	ALLIANCE	A.992
	310	310-40 Southeastern Coastal Plain Lakeshores	78	II.B.2.N.c.5	TAXODIUM DISTICHUM SEASONALLY FLOODED WOODLAND ALLIANCE	A.652
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320. Southeastern Coastal Plain Depression Ponds and Lakeshore Depression Marshes						
	320	320-X Marshes	239	V.A.5.N.k.14	JUNCUS EFFUSUS SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1375

	320	320-X Marshes	239	V.A.5.N.I.9	HERBACE	A.1436
	320	320-X Marshes	380	IV.A.1.N.e.2	HYPERICUM REDUCTUM TEMPORARILY FLOODED DWARF-SHRUBLAND ALLIANCE	A.1088
	320	320-X Marshes	380	V.A.5.N.k.14	JUNCUS EFFUSUS SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1375
	320	320-X Marshes	380	V.A.5.N.k.22	RHYNCHOSPORA (CAREYANA, INUNDATA) SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1383
	320	320-X Marshes	380	V.A.5.N.k.23	SEASONALL	A.1384
	320	320-X Marshes	380	V.A.5.N.k.25	SCIRPUS CYPERINUS SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1386
	320	320-X Marshes	380	V.A.5.N.k.3	SEA	A.1364
	320	320-X Marshes	380	V.A.5.N.k.65	CAREX STRIATA SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1426
		Coastal Plain Depression Ponds and Lakeshore			DICHANTHELIUM (ERECTIFOLIUM, WRIGHTIANUM) - RHYNCHOSPORA FILIFOLIA SEASONALLY FLOODED	A.1370
	320	320-X Marshes	380	V.A.5.N.k.9	ELEOCHARIS (ELONGATA, EQUISETOIDES) - RHYNCHOSPORA TRACYI SEMIPERMANENTLY FLOODED	A.1428
	320	320-X Marshes	380	V.A.5.N.I.1	FLOODED	A.1461
	320	320-X Marshes	380	V.A.5.N.m.15	RHYNCHOSPORA ALBA SATURATED HERBACEOUS ALLIANCE	A.1713
	320	320-X Marshes	380	V.B.2.N.h.3	WOODWARDIA VIRGINICA SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1931
		Coastal Plain Depression Ponds and Lakeshore			ORONTIUM AQUATICUM - (SCIRPUS SUBTERMINALIS) PERMANENTLY FLOODED	A.1751
	320	320-X Marshes	380	V.C.2.N.a.101	HERBACEOUS ALLI	A.1671
	320	320-X Marshes	380	V.C.2.N.a.11	NYMPHOIDES AQUATICA PERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1196
	320	320-X Marshes	380	V.C.2.N.a.100	NELUMBO LUTEA PERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1821
	320	320-X Marshes	380	V.A.5.N.a.6	PHRAGMITES AUSTRALIS HERBACEOUS ALLIANCE	
	320	320-X Marshes	380	VI.A.1.N.b.1	SPHAGNUM CUSPIDATUM SEASONALLY FLOODED NONVASCULAR ALLIANCE	
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330. Southeastern						
Seepage Bogs	330	330-10 Coastal Plain Seepage Bogs	380	V.A.5.N.k.22	RHYNCHOSPORA (CAREYANA, INUNDATA) SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1383
					RHYNCHOSPORA OLIGANTHA - SARRACENIA SPP. - (ARISTIDA BEYRICHIANA, CLENIUM AROMATICUM)	A.1463
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340. Southeastern						
Coastal Plain Seepage and Streamhead Swamps	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.A.4.N.g.2	GORDONIA LASIANTHUS SATURATED FOREST ALLIANCE	A.59
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.A.4.N.g.3	MAGNOLIA VIRGINIANA - PERSEA PALUSTRIS SATURATED FOREST ALLIANCE	A.60
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.A.8.N.g.2	CHAMAECYPARIS THYOIDES SATURATED FOREST ALLIANCE	A.196
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.B.2.N.g.4	LIQUIDAMBAR STYRACIFLUA SATURATED FOREST ALLIANCE	A.350
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.B.2.N.g.5	ALLIANCE	A.351
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	I.B.2.N.g.6	QUERCUS LAURIFOLIA - NYSSA BIFLORA SATURATED FOREST ALLIANCE	A.352
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15 sandhill seepage	II.A.4.N.f.9	PINUS SEROTINA SATURATED WOODLAND ALLIANCE	A.581
	340	340-X Coastal Plain Seepage and Streamhead Swamps	15	III.A.2.N.i.3	SHRUBLAND	A.802
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350. Southeastern						
Coastal Plain Ombrotrophic Bogs (Pocosins)	350	350-10 Peatland Pocosins	87	III.A.2.N.i.2	ARUNDINARIA GIGANTEA SATURATED SHRUBLAND ALLIANCE	A.801
	350	350-10 Peatland Pocosins	87	III.A.2.N.j.1	ARUNDINARIA GIGANTEA SATURATED WOODED SHRUBLAND ALLIANCE	A.804
	350	350-10 Peatland Pocosins	87	III.C.2.N.e.1	SHRUBLA	A.1054
	350	350-10 Peatland Pocosins	87	III.A.2.N.j.2	LYONIA LUCIDA - ILEX GLABRA SATURATED WOODED SHRUBLAND ALLIANCE	A.805
	350	350-10 Peatland Pocosins	87	III.C.2.N.f.1	ZENOBIA PULVERULENTA - CYRILLA RACEMIFLORA WOODED SHRUBLAND ALLIANCE	A.1055
	350	350-10 Peatland Pocosins	87	IV.A.1.N.g.1	CHAMAEDAPHNE CALYCVLATA SATURATED DWARF-SHRUBLAND ALLIANCE	A.1092
	350	350-20 Peatland Atlantic White-cedar Forests	41	I.A.8.N.g.2	CHAMAECYPARIS THYOIDES SATURATED FOREST ALLIANCE	A.196
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360. Southeastern						
Coastal Plain Nonriverine Wet Flat Forests	360	360-X Coastal Plain Nonriverine Wet Flat Forests	158	I.A.4.N.g.4	SABAL PALMETTO - QUERCUS VIRGINIANA SATURATED FOREST ALLIANCE	A.61
	360	360-X Coastal Plain Nonriverine Wet Flat Forests	158	I.B.2.N.g.7	QUERCUS MICHAUXII - QUERCUS PAGODA SATURATED FOREST ALLIANCE	A.353

360	360-X Coastal Plain Nonriverine Wet Flat Forests	158	I.B.2.N.g.9	ALLIANCE PINUS TAEDA - CHAMAECYPARIS THYOIDES - ACER RUBRUM - NYSSA BIFLORA SATURATED FOR	A.355
360	360-X Coastal Plain Nonriverine Wet Flat Forests	158	I.C.3.N.d.4	FOR	A.444
360	360-X Coastal Plain Nonriverine Wet Flat Forests	158	I.C.3.N.d.5	PINUS TAEDA - LIQUIDAMBAR STYRACIFLUA - ACER RUBRUM SATURATED FOREST ALLIANCE	A.445

380. Southeastern
Riverine Forests,
Shrublands, and Marshes

380	380-05 Cypress-gum Floodplain Forests	30	I.B.2.N.e.11	PLANERA AQUATICA SEASONALLY FLOODED FOREST ALLIANCE	A.326
380	380-05 Cypress-gum Floodplain Forests	30	I.B.2.N.e.22	FOREST	A.337
380	380-05 Cypress-gum Floodplain Forests	30	I.B.2.N.e.8	ALLIANCE	A.323
380	380-05 Cypress-gum Floodplain Forests	30	I.B.2.N.f.2	ALLIANCE	A.345
380	380-05 Cypress-gum Floodplain Forests	30	I.B.2.N.f.3	TAXODIUM DISTICHUM SEMIPERMANENTLY FLOODED FOREST ALLIANCE	A.346
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.B.2.N.d.16	FLO	A.291
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.B.2.N.d.17	QUERCUS (PHELLOS, NIGRA, LAURIFOLIA) TEMPORARILY FLOODED FOREST ALLIANCE	A.292
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.B.2.N.e.12	QUERCUS LAURIFOLIA SEASONALLY FLOODED FOREST ALLIANCE	A.327
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.B.2.N.e.15	QUERCUS PHELLOS SEASONALLY FLOODED FOREST ALLIANCE	A.330
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.B.2.N.e.13	QUERCUS LYRATA - (CARYA AQUATICA) SEASONALLY FLOODED FOREST ALLIANCE PINUS TAEDA - LIQUIDAMBAR STYRACIFLUA - NYSSA BIFLORA TEMPORARILY FLOODED	A.328
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.C.3.N.b.4	FOREST	A.433
380	380-10 Oak Bottomland Forests	49 Coastal Plain	I.C.3.N.b.8	AL	A.437
380	380-10 Oak Bottomland Forests	49 Coastal Plain	III.B.2.N.e.8	VI	A.993
380	380-10 Oak Bottomland Forests	385 Piedmont	I.B.2.N.d.16	FLO	A.291
380	380-10 Oak Bottomland Forests	385 Piedmont	I.B.2.N.d.17	QUERCUS (PHELLOS, NIGRA, LAURIFOLIA) TEMPORARILY FLOODED FOREST ALLIANCE	A.292
380	380-10 Oak Bottomland Forests	385 Piedmont	I.B.2.N.e.12	QUERCUS LAURIFOLIA SEASONALLY FLOODED FOREST ALLIANCE	A.327
380	380-10 Oak Bottomland Forests	385 Piedmont	I.B.2.N.e.13	QUERCUS LYRATA - (CARYA AQUATICA) SEASONALLY FLOODED FOREST ALLIANCE PINUS TAEDA - LIQUIDAMBAR STYRACIFLUA - NYSSA BIFLORA TEMPORARILY FLOODED	A.328
380	380-10 Oak Bottomland Forests	385 Piedmont	I.C.3.N.b.4	FOREST	A.433
380	380-10 Oak Bottomland Forests	385 Piedmont	I.C.3.N.b.8	AL	A.437
380	380-10 Oak Bottomland Forests	385 Piedmont	III.B.2.N.e.8	VI	A.993
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.11	TEMP	A.286
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.12	FLO	A.287
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.13	SACCHARI	A.288
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.14	TEMPO	A.289
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.15	POPULUS DELTOIDES TEMPORARILY FLOODED FOREST ALLIANCE	A.290
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.21	SALIX CAROLINIANA TEMPORARILY FLOODED FOREST ALLIANCE	A.296
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.22	SALIX NIGRA TEMPORARILY FLOODED FOREST ALLIANCE	A.297
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.3	ACER NEGUNDO TEMPORARILY FLOODED FOREST ALLIANCE	A.278
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.5	BETULA NIGRA - (PLATANUS OCCIDENTALIS) TEMPORARILY FLOODED FOREST ALLIANCE	A.280
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.d.9	FAGUS GRANDIFOLIA TEMPORARILY FLOODED FOREST ALLIANCE	A.284
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.e.1	ACER RUBRUM - FRAXINUS PENNSYLVANICA SEASONALLY FLOODED FOREST ALLIANCE	A.316
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.e.19	SALIX NIGRA SEASONALLY FLOODED FOREST ALLIANCE	A.334
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.e.6	LIQUIDAMBAR STYRACIFLUA - (ACER RUBRUM) SEASONALLY FLOODED FOREST ALLIANCE LIQUIDAMBAR STYRACIFLUA - TAXODIUM DISTICHUM SEASONALLY FLOODED FOREST	A.321
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	I.B.2.N.e.7	ALLIANCE	A.322
380	380-15 Mixed Hardwood Bottomland Forests	50 Coastal Plain	II.B.2.N.b.1	WOODLAND	A.633
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.11	TEMP	A.286
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.12	FLO	A.287
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.13	SACCHARI	A.288
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.14	TEMPO	A.289
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.15	POPULUS DELTOIDES TEMPORARILY FLOODED FOREST ALLIANCE	A.290

380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.21	SALIX CAROLINIANA TEMPORARILY FLOODED FOREST ALLIANCE	A.296
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.22	SALIX NIGRA TEMPORARILY FLOODED FOREST ALLIANCE	A.297
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.3	ACER NEGUNDO TEMPORARILY FLOODED FOREST ALLIANCE	A.278
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.5	BETULA NIGRA - (PLATANUS OCCIDENTALIS) TEMPORARILY FLOODED FOREST ALLIANCE	A.280
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.d.9	FAGUS GRANDIFOLIA TEMPORARILY FLOODED FOREST ALLIANCE	A.284
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.e.1	ACER RUBRUM - FRAXINUS PENNSYLVANICA SEASONALLY FLOODED FOREST ALLIANCE	A.316
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.e.19	SALIX NIGRA SEASONALLY FLOODED FOREST ALLIANCE	A.334
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.e.6	LIQUIDAMBAR STYRACIFLUA - (ACER RUBRUM) SEASONALLY FLOODED FOREST ALLIANCE	A.321
				LIQUIDAMBAR STYRACIFLUA - TAXODIUM DISTICHUM SEASONALLY FLOODED FOREST	
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	I.B.2.N.e.7	ALLIANCE	A.322
380	380-15 Mixed Hardwood Bottomland Forests	384 Piedmont/Mountains	II.B.2.N.b.1	WOODLAND	A.633
380	380-20 Floodplain Eastern Hemlock Forests	517 Mountains	I.A.8.N.e.3	TSUGA CANADENSIS - (PINUS STROBUS) TEMPORARILY FLOODED FOREST ALLIANCE	A.171
380	380-25 Riverbank Shrublands	173 Coastal Plain	III.B.2.N.d.2	ALNUS SERRULATA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.943
380	380-25 Riverbank Shrublands	173 Coastal Plain	III.B.2.N.d.5	SALIX CAROLINIANA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.946
380	380-25 Riverbank Shrublands	173 Coastal Plain	III.B.2.N.d.7	SALIX NIGRA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.948
380	380-25 Riverbank Shrublands	267 Piedmont/Mountains	III.B.2.N.d.2	ALNUS SERRULATA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.943
380	380-25 Riverbank Shrublands	267 Piedmont/Mountains	III.B.2.N.d.5	SALIX CAROLINIANA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.946
380	380-25 Riverbank Shrublands	267 Piedmont/Mountains	III.B.2.N.d.7	SALIX NIGRA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.948
380	380-30 Floodplain Wet Shrublands	269 Piedmont/Mountains	III.B.2.N.e.5	DECODON VERTICILLATUS SEASONALLY FLOODED SHRUBLAND ALLIANCE	A.990
380	380-30 Floodplain Wet Shrublands	269 Piedmont/Mountains	III.B.2.N.f.1	CEPHALANTHUS OCCIDENTALIS SEMIPERMANENTLY FLOODED SHRUBLAND ALLIANCE	A.1011
380	380-35 Coastal Plain Riverbed and Streambed Vegetation	380 Coastal Plain	V.A.5.N.k.34	ZIZANIOPSIS MILIACEA SEASONALLY FLOODED TEMPERATE HERBACEOUS ALLIANCE	A.1395
				NYPHAEAE ODORATA - NUPHAR SPP. PERMANENTLY FLOODED TEMPERATE HERBACEOUS	
380	380-35 Coastal Plain Riverbed and Streambed Vegetation	380 Coastal Plain	V.C.2.N.a.102	ALLIANCE	A.1984
				LIPOCARPHA MICRANTHA - MICRANTHEMUM UMBROSUM SEASONALLY FLOODED	
380	380-35 Coastal Plain Riverbed and Streambed Vegetation	380 Coastal Plain	V.D.2.N.g.1	HERBACEOUS ALLIA	A.1816
380	380-35 Coastal Plain Riverbed and Streambed Vegetation	380 Coastal Plain	V.C.2.N.a.17	VALLISNERIA AMERICANA PERMANENTLY FLOODED TEMPERATE HERBACEOUS ALLIANCE	A.1757
380	380-40 Vegetation	239 Piedmont/Mountains emergent	V.B.2.N.d.2	JUSTICIA AMERICANA TEMPORARILY FLOODED HERBACEOUS ALLIANCE	A.1657
	Eastern Interior Rocky Riverbed Herbaceous	Piedmont/Mountains		NYPHAEAE ODORATA - NUPHAR SPP. PERMANENTLY FLOODED TEMPERATE HERBACEOUS	
380	380-40 Vegetation	238 submerged aquatic	V.C.2.N.a.102	ALLIANCE	A.1984
	Eastern Interior Rocky Riverbed Herbaceous	Piedmont/Mountains			
380	380-40 Vegetation	238 submerged aquatic	V.C.2.N.a.12	PODOSTEMUM CERATOPHYLLUM PERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1752
	Eastern Interior Rocky Riverbed Herbaceous	Piedmont/Mountains			
380	380-40 Vegetation	238 submerged aquatic	V.C.2.N.a.100	NELUMBO LUTEA PERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1671
380	380-40 Vegetation	239 Piedmont/Mountains emergent	III.A.2.N.g.2	LIGUSTRUM SINENSE TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.796
380	380-40 Vegetation	239 Piedmont/Mountains emergent	V.A.5.N.j.4	CAREX TORTA TEMPORARILY FLOODED HERBACEOUS ALLIANCE	A.1340
380	380-35 Coastal Plain Riverbed and Streambed Vegetation	380 Coastal Plain	V.C.2.N.a.17	VALLISNERIA AMERICANA PERMANENTLY FLOODED TEMPERATE HERBACEOUS ALLIANCE	A.1757
380	380-45 Riverscours Prairies	380 Coastal Plain	V.A.5.N.j.10	SCHIZACHYRIUM SCOPARIUM TEMPORARILY FLOODED HERBACEOUS ALLIANCE	A.1346
380	380-50 Unforested Floodplain Canebrake	380 Coastal Plain	III.A.2.N.g.1	ARUNDINARIA GIGANTEA TEMPORARILY FLOODED SHRUBLAND ALLIANCE	A.795
				PONTERDERIA CORDATA - PELTANDRA VIRGINICA SEMIPERMANENTLY FLOODED	
380	380-55 Floodplain Pools	380 Coastal Plain	V.B.2.N.e.1	HERBACEOUS ALLI	A.1669
380	380-65 Beaver Marshes	239 Piedmont/Mountains emergent	V.A.5.N.k.36	CAREX STRICTA SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1397
380	380-65 Beaver Marshes	380 Coastal Plain	V.A.5.N.k.36	CAREX STRICTA SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1397

390. Eastern
Oak/Pine/Hickory Forests
and Woodlands

390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.100	QUERCUS ALBA - QUERCUS VELUTINA - (QUERCUS COCCINEA) FOREST ALLIANCE	A.1911
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.26	QUERCUS ALBA - (QUERCUS NIGRA) FOREST ALLIANCE	A.238
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.27	QUERCUS ALBA - (QUERCUS RUBRA, CARYA SPP.) FOREST ALLIANCE	A.239
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.29	QUERCUS ALBA - QUERCUS (FALCATA, STELLATA) FOREST ALLIANCE	A.241
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.31	QUERCUS FALCATA FOREST ALLIANCE	A.243

390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.35	QUERCUS NIGRA FOREST ALLIANCE	A.247
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.36	QUERCUS PRINUS - (QUERCUS COCCINEA, QUERCUS VELUTINA) FOREST ALLIANCE	A.248
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.37	QUERCUS PRINUS - QUERCUS (ALBA, FALCATA, RUBRA, VELUTINA) FOREST ALLIANCE	A.249
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.38	QUERCUS PRINUS - QUERCUS RUBRA FOREST ALLIANCE	A.250
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	I.B.2.N.a.41	QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.253
390	390-10 Dry-mesic Oak Forests	138 Coastal Plain deciduous	II.B.2.N.a.25	QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.625
390	390-10 Dry-mesic Oak Forests	382 Coastal Plain/ Piedmont mixed	I.C.3.N.a.24	PINUS TAEDA - QUERCUS (ALBA, FALCATA, STELLATA) FOREST ALLIANCE	A.404
390	390-10 Dry-mesic Oak Forests	382 Coastal Plain/Piedmont mixed	I.C.3.N.a.26	PINUS TAEDA - QUERCUS NIGRA FOREST ALLIANCE	A.406
390	390-10 Dry-mesic Oak Forests	382 Coastal Plain/Piedmont mixed	I.C.3.N.a.3	JUNIPERUS VIRGINIANA - QUERCUS (STELLATA, VELUTINA, MARILANDICA) FOREST ALLIANCE	A.383
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.100	QUERCUS ALBA - QUERCUS VELUTINA - (QUERCUS COCCINEA) FOREST ALLIANCE	A.1911
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.26	QUERCUS ALBA - (QUERCUS NIGRA) FOREST ALLIANCE	A.238
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.27	QUERCUS ALBA - (QUERCUS RUBRA, CARYA SPP.) FOREST ALLIANCE	A.239
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.29	QUERCUS ALBA - QUERCUS (FALCATA, STELLATA) FOREST ALLIANCE	A.241
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.31	QUERCUS FALCATA FOREST ALLIANCE	A.243
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.35	QUERCUS NIGRA FOREST ALLIANCE	A.247
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.36	QUERCUS PRINUS - (QUERCUS COCCINEA, QUERCUS VELUTINA) FOREST ALLIANCE	A.248
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.37	QUERCUS PRINUS - QUERCUS (ALBA, FALCATA, RUBRA, VELUTINA) FOREST ALLIANCE	A.249
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.38	QUERCUS PRINUS - QUERCUS RUBRA FOREST ALLIANCE	A.250
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	I.B.2.N.a.41	QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.253
390	390-10 Dry-mesic Oak Forests	382 Piedmont deciduous	II.B.2.N.a.25	QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.625
390	390-10 Dry-mesic Oak Forests	519 Mountains mixed	I.C.3.N.a.24	PINUS TAEDA - QUERCUS (ALBA, FALCATA, STELLATA) FOREST ALLIANCE	A.404
390	390-10 Dry-mesic Oak Forests	519 Mountains mixed	I.C.3.N.a.26	PINUS TAEDA - QUERCUS NIGRA FOREST ALLIANCE	A.406
390	390-10 Dry-mesic Oak Forests	519 Mountains mixed	I.C.3.N.a.3	JUNIPERUS VIRGINIANA - QUERCUS (STELLATA, VELUTINA, MARILANDICA) FOREST ALLIANCE	A.383
390	390-10 Dry-mesic Oak Forests	222 Piedmont mixed	I.C.3.N.a.24	PINUS TAEDA - QUERCUS (ALBA, FALCATA, STELLATA) FOREST ALLIANCE	A.404
390	390-10 Dry-mesic Oak Forests	222 Piedmont mixed	I.C.3.N.a.26	PINUS TAEDA - QUERCUS NIGRA FOREST ALLIANCE	A.406
390	390-10 Dry-mesic Oak Forests	222 Piedmont mixed	I.C.3.N.a.3	JUNIPERUS VIRGINIANA - QUERCUS (STELLATA, VELUTINA, MARILANDICA) FOREST ALLIANCE	A.383
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.100	QUERCUS ALBA - QUERCUS VELUTINA - (QUERCUS COCCINEA) FOREST ALLIANCE	A.1911
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.26	QUERCUS ALBA - (QUERCUS NIGRA) FOREST ALLIANCE	A.238
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.27	QUERCUS ALBA - (QUERCUS RUBRA, CARYA SPP.) FOREST ALLIANCE	A.239
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.29	QUERCUS ALBA - QUERCUS (FALCATA, STELLATA) FOREST ALLIANCE	A.241
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.31	QUERCUS FALCATA FOREST ALLIANCE	A.243
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.35	QUERCUS NIGRA FOREST ALLIANCE	A.247
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.36	QUERCUS PRINUS - (QUERCUS COCCINEA, QUERCUS VELUTINA) FOREST ALLIANCE	A.248
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.37	QUERCUS PRINUS - QUERCUS (ALBA, FALCATA, RUBRA, VELUTINA) FOREST ALLIANCE	A.249
390	390-10 Dry-mesic Oak Forests	518 Mountains deciduous	I.B.2.N.a.38	QUERCUS PRINUS - QUERCUS RUBRA FOREST ALLIANCE	A.250
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.100	QUERCUS ALBA - QUERCUS VELUTINA - (QUERCUS COCCINEA) FOREST ALLIANCE	A.1911
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.26	QUERCUS ALBA - (QUERCUS NIGRA) FOREST ALLIANCE	A.238
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.27	QUERCUS ALBA - (QUERCUS RUBRA, CARYA SPP.) FOREST ALLIANCE	A.239
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.29	QUERCUS ALBA - QUERCUS (FALCATA, STELLATA) FOREST ALLIANCE	A.241
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.31	QUERCUS FALCATA FOREST ALLIANCE	A.243
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.35	QUERCUS NIGRA FOREST ALLIANCE	A.247
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.36	QUERCUS PRINUS - (QUERCUS COCCINEA, QUERCUS VELUTINA) FOREST ALLIANCE	A.248
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.37	QUERCUS PRINUS - QUERCUS (ALBA, FALCATA, RUBRA, VELUTINA) FOREST ALLIANCE	A.249
390	390-10 Dry-mesic Oak Forests	228 Piedmont/Mountains deciduous	I.B.2.N.a.38	QUERCUS PRINUS - QUERCUS RUBRA FOREST ALLIANCE	A.250
400	400-10 Mesic Hardwood Forests	63 Coastal Plain	I.C.3.N.a.26	PINUS TAEDA - QUERCUS NIGRA FOREST ALLIANCE	A.406
400	400-10 Mesic Hardwood Forests	63 Coastal Plain	I.C.3.N.a.3	JUNIPERUS VIRGINIANA - QUERCUS (STELLATA, VELUTINA, MARILANDICA) FOREST ALLIANCE	A.383
400	400-10 Mesic Hardwood Forests	63 Coastal Plain	II.B.2.N.a.25	QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.625
400	400-10 Mesic Hardwood Forests	63 Coastal Plain	I.B.2.N.a.101	QUERCUS MUEHLENBERGII - (ACER SACCHARUM) FOREST ALLIANCE	A.1912

	400	400-10 Mesic Hardwood Forests	63 Coastal Plain	I.B.2.N.a.11	CARYA GLABRA - TILIA AMERICANA VAR. CAROLINIANA - CELTIS LAEVIGATA FOREST ALLIAN	A.223
	400	400-10 Mesic Hardwood Forests	63 Coastal Plain	I.B.2.N.a.16	FAGUS GRANDIFOLIA - QUERCUS ALBA FOREST ALLIANCE	A.228
	400	400-10 Mesic Hardwood Forests	230 Piedmont	I.B.2.N.a.17	FAGUS GRANDIFOLIA - QUERCUS RUBRA - QUERCUS ALBA FOREST ALLIANCE	A.229
	400	400-10 Mesic Hardwood Forests	230 Piedmont	I.B.2.N.a.22	LIQUIDAMBAR STYRACIFLUA FOREST ALLIANCE	A.234
	400	400-10 Mesic Hardwood Forests	230 Piedmont	I.B.2.N.a.24	LIRIODENDRON TULIPIFERA FOREST ALLIANCE	A.236
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.22	LIQUIDAMBAR STYRACIFLUA FOREST ALLIANCE	A.234
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.24	LIRIODENDRON TULIPIFERA FOREST ALLIANCE	A.236
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.17	FAGUS GRANDIFOLIA - QUERCUS RUBRA - QUERCUS ALBA FOREST ALLIANCE	A.229
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.101	QUERCUS MUEHLENBERGII - (ACER SACCHARUM) FOREST ALLIANCE	A.1912
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.11	CARYA GLABRA - TILIA AMERICANA VAR. CAROLINIANA - CELTIS LAEVIGATA FOREST ALLIAN	A.223
	400	400-10 Mesic Hardwood Forests	520 Mountains	I.B.2.N.a.16	FAGUS GRANDIFOLIA - QUERCUS ALBA FOREST ALLIANCE	A.228
410. Eastern Glades and Barrens	410	410-X Glades and Barrens	220 Piedmont/Evergreen dominated	II.A.4.N.b.2	JUNIPERUS VIRGINIANA WOODLAND ALLIANCE	A.545
	410	410-X Glades and Barrens	226 Piedmont/Hardwood dominated	II.B.2.N.a.25	QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.625
	410	410-X Glades and Barrens	226 Piedmont/Hardwood dominated	II.B.2.N.a.4	FRAXINUS AMERICANA - CARYA GLABRA - (JUNIPERUS VIRGINIANA) WOODLAND ALLIANCE	A.604
	410	410-X Glades and Barrens	226 Piedmont/Hardwood dominated	V.D.2.N.d.3	SPOROBOLUS (VAGINIFLORUS, NEGLECTUS, OZARKANUS) HERBACEOUS ALLIANCE	A.1815
	410	410-X Glades and Barrens	226 Piedmont/Hardwood dominated	V.B.2.N.f.14	TALINUM TERETIFOLIUM - PORTULACA SMALLII SATURATED HERBACEOUS ALLIANCE	A.1695
	410	410-X Glades and Barrens	226 Piedmont/Hardwood dominated	V.B.2.N.f.12	SENECIO TOMENTOSUS - CROTON WILLDENOWII SATURATED HERBACEOUS ALLIANCE	A.1693
420. Appalachian High Elevation Forests	420	420-10 Appalachian Spruce-fir Forests	521 Mountains	I.A.8.N.c.1	ABIES FRASERI - PICEA RUBENS FOREST ALLIANCE	A.136
	420	420-10 Appalachian Spruce-fir Forests	521 Mountains	I.A.8.N.c.3	PICEA RUBENS FOREST ALLIANCE	A.138
	420	420-10 Appalachian Spruce-fir Forests	521 Mountains	I.C.3.N.a.4	PICEA RUBENS - BETULA ALLEGHANIENSIS FOREST ALLIANCE	A.384
	420	420-20 Appalachian Northern Hardwood Forests	522 Mountains	I.B.2.N.a.104	BETULA ALLEGHANIENSIS - FAGUS GRANDIFOLIA - AESCULUS FLAVA FOREST ALLIANCE	A.266
	420	420-20 Appalachian Northern Hardwood Forests	522 Mountains	I.C.3.N.a.32	TSUGA CANADENSIS - BETULA ALLEGHANIENSIS FOREST ALLIANCE	A.412
430. Appalachian Balds	430	430-10 Appalachian Grassy Balds	523 Mountains	III.B.2.N.b.2	RUBUS ALLEGHANIENSIS - RUBUS CANADENSIS SHRUBLAND ALLIANCE	A.930
	430	430-10 Appalachian Grassy Balds	523 Mountains	V.A.5.N.e.5	CAREX PENNSYLVANICA HERBACEOUS ALLIANCE	A.1278
	430	430-10 Appalachian Grassy Balds	523 Mountains	V.A.5.N.e.7	DANTHONIA COMPRESSA HERBACEOUS ALLIANCE	A.1280
	430	430-20 Appalachian Shrub Balds	524 Mountains	II.B.2.N.a.24	QUERCUS RUBRA - QUERCUS PRINUS WOODLAND ALLIANCE	A.624
	430	430-20 Appalachian Shrub Balds	524 Mountains	III.A.2.N.b.4	ALLIANCE	A.744
	430	430-20 Appalachian Shrub Balds	524 Mountains	III.A.2.N.b.5	RHODODENDRON MAXIMUM SHRUBLAND ALLIANCE	A.745
	430	430-20 Appalachian Shrub Balds	524 Mountains	III.B.2.N.b.1	ALNUS VIRIDIS SHRUBLAND ALLIANCE	A.929
	430	430-20 Appalachian Shrub Balds	524 Mountains	III.B.2.N.b.2	RUBUS ALLEGHANIENSIS - RUBUS CANADENSIS SHRUBLAND ALLIANCE	A.930
	430	430-20 Appalachian Shrub Balds	524 Mountains	IV.A.1.N.a.5	LEIOPHYLLUM BUXIFOLIUM DWARF-SHRUBLAND ALLIANCE	A.1063
440. Appalachian Low to Mid Elevation Dry-mesic Forests	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.100	QUERCUS ALBA - QUERCUS VELUTINA - (QUERCUS COCCINEA) FOREST ALLIANCE	A.1911
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.103	QUERCUS ALBA MONTANE FOREST ALLIANCE	A.271
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.105	CASTANEA DENTATA - QUERCUS RUBRA FOREST ALLIANCE	A.268
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.12	CASTANEA DENTATA - QUERCUS PRINUS FOREST ALLIANCE	A.224
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.27	QUERCUS ALBA - (QUERCUS RUBRA, CARYA SPP.) FOREST ALLIANCE	A.239
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.38	QUERCUS PRINUS - QUERCUS RUBRA FOREST ALLIANCE	A.250
	440	440-10 Appalachian Oak Forests	525 Mountains	I.B.2.N.a.8	QUERCUS RUBRA MONTANE FOREST ALLIANCE	A.272
450. Appalachian Mesic Forests	450	450-10 Appalachian Cove (Mixed Mesophytic) Forests	526 Mountains	I.B.2.N.a.23	LIRIODENDRON TULIPIFERA - TILIA AMERICANA VAR. HETEROPHYLLA - AESCULUS FLAVA - A	A.235
	450	450-10 Appalachian Cove (Mixed Mesophytic) Forests	526 Mountains	I.C.3.N.a.33	TSUGA CANADENSIS - LIRIODENDRON TULIPIFERA FOREST ALLIANCE	A.413
	450	450-10 Appalachian Cove (Mixed Mesophytic) Forests	526 Mountains	I.C.3.N.a.32	TSUGA CANADENSIS - BETULA ALLEGHANIENSIS FOREST ALLIANCE	A.412
	450	450-20 Upland Eastern Hemlock Forests	527 Mountains	I.A.8.N.b.13	PINUS STROBUS - TSUGA CANADENSIS FOREST ALLIANCE	A.127
	450	450-20 Upland Eastern Hemlock Forests	527 Mountains	I.A.8.N.b.14	PINUS STROBUS FOREST ALLIANCE	A.128

450	450-20 Upland Eastern Hemlock Forests	527 Mountains	I.A.8.N.c.9	TSUGA CAROLINIANA FOREST ALLIANCE	A.144
450	450-20 Upland Eastern Hemlock Forests	527 Mountains	I.A.8.N.c.8	TSUGA CANADENSIS FOREST ALLIANCE	A.143
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460.	Appalachian and Interior Highland Xeric Forests and Woodlands				
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.A.8.N.b.17	PINUS VIRGINIANA FOREST ALLIANCE	A.131
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.14	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) FOREST ALLIANCE	A.394
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.15	PINUS ECHINATA - QUERCUS (COCCINEA, FALCATA, PRINUS) FOREST ALLIANCE	A.395
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.16	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.396
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.21	PINUS STROBUS - QUERCUS (ALBA, RUBRA, VELUTINA) FOREST ALLIANCE	A.401
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.22	PINUS STROBUS - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.402
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.28	PINUS VIRGINIANA - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.408
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	I.C.3.N.a.7	PINUS (ECHINATA, TAEDA, VIRGINIANA) - QUERCUS (ALBA, RUBRA) - LIRIODENDRON TULIP	A.387
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	II.A.4.N.a.17	PINUS ECHINATA WOODLAND ALLIANCE	A.515
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	II.B.2.N.a.25	QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.625
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	II.C.3.N.a.11	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) WOODLAND ALLIANCE	A.679
460	460-10 Xeric Oak - Pine Forests	46 Coastal Plain	II.C.3.N.a.12	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.680
460	460-10 Xeric Oak - Pine Forests	528 Mountains Pine dominated	I.A.8.N.b.17	PINUS VIRGINIANA FOREST ALLIANCE	A.131
460	460-10 Xeric Oak - Pine Forests	528 Mountains Pine dominated	II.A.4.N.a.17	PINUS ECHINATA WOODLAND ALLIANCE	A.515
460	460-10 Xeric Oak - Pine Forests	528 Mountains Pine dominated	II.A.4.N.a.23	PINUS PUNGENS - (PINUS RIGIDA) WOODLAND ALLIANCE	A.521
460	460-10 Xeric Oak - Pine Forests	528 Mountains Pine dominated	II.A.4.N.a.26	PINUS RIGIDA WOODLAND ALLIANCE	A.524
460	460-10 Xeric Oak - Pine Forests	528 Mountains Pine dominated	V.A.6.N.q.103	(PINUS RIGIDA) / SCHIZACHYRIUM SCOPARIUM WOODED HERBACEOUS ALLIANCE	A.1921
460	460-10 Xeric Oak - Pine Forests	220 Piedmont Pine Dominated	I.A.8.N.b.17	PINUS VIRGINIANA FOREST ALLIANCE	A.131
460	460-10 Xeric Oak - Pine Forests	220 Piedmont Pine Dominated	I.A.8.N.c.2	JUNIPERUS VIRGINIANA FOREST ALLIANCE	A.137
460	460-10 Xeric Oak - Pine Forests	220 Piedmont Pine Dominated	II.A.4.N.a.17	PINUS ECHINATA WOODLAND ALLIANCE	A.515
460	460-10 Xeric Oak - Pine Forests	220 Piedmont Pine Dominated	II.A.4.N.a.23	PINUS PUNGENS - (PINUS RIGIDA) WOODLAND ALLIANCE	A.521
460	460-10 Xeric Oak - Pine Forests	220 Piedmont Pine Dominated	II.A.4.N.a.26	PINUS RIGIDA WOODLAND ALLIANCE	A.524
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.14	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) FOREST ALLIANCE	A.394
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.15	PINUS ECHINATA - QUERCUS (COCCINEA, FALCATA, PRINUS) FOREST ALLIANCE	A.395
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.16	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.396
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.21	PINUS STROBUS - QUERCUS (ALBA, RUBRA, VELUTINA) FOREST ALLIANCE	A.401
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.22	PINUS STROBUS - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.402
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.28	PINUS VIRGINIANA - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.408
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	I.C.3.N.a.7	PINUS (ECHINATA, TAEDA, VIRGINIANA) - QUERCUS (ALBA, RUBRA) - LIRIODENDRON TULIP	A.387
460	460-10 Xeric Oak - Pine Forests	529 Mountains/mixed	II.C.3.N.a.11	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) WOODLAND ALLIANCE	A.679
460	460-10 Xeric Oak - Pine Forests	232 Piedmont/mixed	II.C.3.N.a.9	PINUS (RIGIDA, PUNGENS, VIRGINIANA) - QUERCUS PRINUS WOODLAND ALLIANCE	A.677
460	460-10 Xeric Oak - Pine Forests	232 Piedmont/mixed	II.C.3.N.a.13	PINUS RIGIDA - QUERCUS (ALBA, STELLATA) WOODLAND ALLIANCE	A.681
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.14	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) FOREST ALLIANCE	A.394
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.15	PINUS ECHINATA - QUERCUS (COCCINEA, FALCATA, PRINUS) FOREST ALLIANCE	A.395
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.16	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.396
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.21	PINUS STROBUS - QUERCUS (ALBA, RUBRA, VELUTINA) FOREST ALLIANCE	A.401
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.22	PINUS STROBUS - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.402
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.28	PINUS VIRGINIANA - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.408
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	I.C.3.N.a.7	PINUS (ECHINATA, TAEDA, VIRGINIANA) - QUERCUS (ALBA, RUBRA) - LIRIODENDRON TULIP	A.387
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	II.C.3.N.a.11	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) WOODLAND ALLIANCE	A.679
460	460-10 Xeric Oak - Pine Forests	226 Piedmont/Hardwood dominated	II.C.3.N.a.12	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.680
460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.14	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) FOREST ALLIANCE	A.394
460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.16	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA FOREST ALLIANCE	A.396
460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.21	PINUS STROBUS - QUERCUS (ALBA, RUBRA, VELUTINA) FOREST ALLIANCE	A.401

460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.22	PINUS STROBUS - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.402
460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.28	PINUS VIRGINIANA - QUERCUS (COCCINEA, PRINUS) FOREST ALLIANCE	A.408
460	460-10 Xeric Oak - Pine Forests	530 dominated	II.C.3.N.a.9	PINUS (RIGIDA, PUNGENS, VIRGINIANA) - QUERCUS PRINUS WOODLAND ALLIANCE	A.677
460	460-10 Xeric Oak - Pine Forests	530 dominated	II.C.3.N.a.13	PINUS RIGIDA - QUERCUS (ALBA, STELLATA) WOODLAND ALLIANCE	A.681
460	460-10 Xeric Oak - Pine Forests	530 dominated	I.C.3.N.a.7	PINUS (ECHINATA, TAEDA, VIRGINIANA) - QUERCUS (ALBA, RUBRA) - LIROIDENDRON TULIP	A.387
460	460-10 Xeric Oak - Pine Forests	530 dominated	II.C.3.N.a.11	PINUS ECHINATA - QUERCUS (ALBA, FALCATA, STELLATA, VELUTINA) WOODLAND ALLIANCE	A.679
460	460-10 Xeric Oak - Pine Forests	530 dominated	II.C.3.N.a.12	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.680
460	460-30 Shortleaf Pine Woodlands and Forests	220 Piedmont/Pine dominated	I.A.8.N.b.15	PINUS TAEDA - PINUS ECHINATA - (JUNIPERUS VIRGINIANA) FOREST ALLIANCE	A.129
460	460-30 Shortleaf Pine Woodlands and Forests	220 Piedmont/Pine dominated	I.A.8.N.b.5	PINUS ECHINATA FOREST ALLIANCE	A.119
460	460-30 Shortleaf Pine Woodlands and Forests	232 Piedmont/Mixed	I.C.3.N.a.15	PINUS ECHINATA - QUERCUS (COCCINEA, FALCATA, PRINUS) FOREST ALLIANCE	A.395
460	460-30 Shortleaf Pine Woodlands and Forests	232 Piedmont/Mixed	II.C.3.N.a.12	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.680
460	460-30 Shortleaf Pine Woodlands and Forests	528 Mountains/Pine dominated	I.A.8.N.b.15	PINUS TAEDA - PINUS ECHINATA - (JUNIPERUS VIRGINIANA) FOREST ALLIANCE	A.129
460	460-30 Shortleaf Pine Woodlands and Forests	528 Mountains/Pine dominated	I.A.8.N.b.5	PINUS ECHINATA FOREST ALLIANCE	A.119
460	460-30 Shortleaf Pine Woodlands and Forests	529 Mountains/Mixed	I.C.3.N.a.15	PINUS ECHINATA - QUERCUS (COCCINEA, FALCATA, PRINUS) FOREST ALLIANCE	A.395
460	460-30 Shortleaf Pine Woodlands and Forests	529 Mountains/Mixed	II.C.3.N.a.12	PINUS ECHINATA - QUERCUS STELLATA - QUERCUS MARILANDICA WOODLAND ALLIANCE	A.680

470. Appalachian and Interior Seepage Forests and Woodlands

470	470-10 Appalachian Forested Wetland	533 Mountains	I.A.8.N.g.4	PICEA RUBENS SATURATED FOREST ALLIANCE	A.198
470	470-10 Appalachian Forested Wetland	533 Mountains	I.C.3.N.d.7	TSUGA CANADENSIS - ACER RUBRUM SATURATED FOREST ALLIANCE	A.447
470	470-10 Appalachian Forested Wetland	533 Mountains	II.A.4.N.f.8	PINUS RIGIDA SATURATED WOODLAND ALLIANCE	A.580
470	470-10 Appalachian Forested Wetland	533 Mountains	II.C.3.N.c.10	PINUS STROBUS - ACER RUBRUM SATURATED WOODLAND ALLIANCE	A.582
470	470-20 Interior Streamhead Seepage Swamps	533 Mountains	I.B.2.N.g.2	ACER RUBRUM - NYSSA SYLVATICA SATURATED FOREST ALLIANCE	A.348
470	470-20 Interior Streamhead Seepage Swamps	533 Mountains	II.B.2.N.e.1	ACER RUBRUM SATURATED WOODLAND ALLIANCE	A.657
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	III.B.2.N.g.1	ALNUS SERRULATA SATURATED SHRUBLAND ALLIANCE ALNUS SERRULATA - SALIX SERICEA - RHODODENDRON (CATAWBIENSE, MAXIMUM)	A.1014
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	III.C.2.N.e.100	SATURATED	A.1880
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.k.27	SPARGANIUM AMERICANUM SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1388
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.m.1	CLADIUM MARISCOIDES SATURATED HERBACEOUS ALLIANCE	A.1447
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.m.101	CAREX RUTHII - CAREX GYNANDRA SATURATED HERBACEOUS ALLIANCE	A.1898
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.m.4	-	A.1450
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.m.5	CAREX CRINITA - OSMUNDA SPP. / SPHAGNUM SPP. SATURATED HERBACEOUS ALLIANCE	A.1451
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.m.6	GRAN	A.1452
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.B.2.N.f.4	CHRYOSPLENIUM AMERICANUM SATURATED HERBACEOUS ALLIANCE	A.1685
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.B.2.N.f.7	DIPHYLLEIA CYMOSA - SAXIFRAGA MICRANTHIDIFOLIA SATURATED HERBACEOUS ALLIANCE	A.1688
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.A.5.N.e.4	CAREX BILTMOREANA HERBACEOUS ALLIANCE	A.1277
470	470-40 Appalachian Herbaceous Wetland	534 Mountains	V.B.2.N.f.9	IMPATIENS (CAPENSIS, PALLIDA) - MONARDA DIDYMA SATURATED HERBACEOUS ALLIANCE	A.1690

650. Cliffs and Bluffs

650	650-05 Cliffs	535 Mountains	VI.B.1.N.a.1	LASALLIA PAPULOSA - (LASALLIA PENNSYLVANICA) NONVASCULAR ALLIANCE	A.1824
650	650-05 Cliffs	535 Mountains	VI.B.1.N.b.2	LASALLIA PAPULOSA - UMBILICARIA CAROLINIANA NONVASCULAR ALLIANCE	A.1826
650	650-05 Cliffs	535 Mountains	VII.A.1.N.a.7	PHYSOCARPUS OPULIFOLIUS SPARSELY VEGETATED ALLIANCE	A.1837

660. Talus

660	660-10 Talus	535 Mountains	VII.B.1.N.a.1	LOWLAND TALUS SPARSE VEGETATION ALLIANCE	A.1847
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670. Shaded Rock Outcrops

670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.b.100	(HYDRANGEA SPP., PHILADELPHUS SPP.) / HEUCHERA SPP. HERBACEOUS ALLIANCE AQUILEGIA CANADENSIS - ASPLENIDIUM (HETEROCHROMUM, HETERORESILIENS) HERBACEOUS	A.1905
670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.b.4	ALLI	A.1615
670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.f.15	VITTARIA APPALACHIANA - HEUCHERA PARVIFLORA SATURATED HERBACEOUS ALLIANCE	A.1696
670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.f.2	ADIANTUM CAPILLUS-VENERIS SATURATED HERBACEOUS ALLIANCE	A.1683
670	670-10 Shaded Outcrops	535 Mountains	VI.B.1.N.b.3	UMBILICARIA MAMMULATA NONVASCULAR ALLIANCE	A.1827
670	670-10 Shaded Outcrops	535 Mountains	VII.A.1.N.a.1	ASPENIDIUM MONTANUM SPARSELY VEGETATED ALLIANCE	A.1831

	670	670-10 Shaded Outcrops	535 Mountains	V.A.7.N.d.2	SCHIZACHYRIUM SCOPARIUM SHRUB HERBACEOUS ALLIANCE	A.1520
	670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.b.11	SELAGINELLA TORTIPIILA HERBACEOUS ALLIANCE	A.1622
	670	670-10 Shaded Outcrops	535 Mountains	V.B.2.N.b.10	SAXIFRAGA MICHAUXII HERBACEOUS ALLIANCE	A.1621
	670	670-10 Shaded Outcrops	535 Mountains	VII.A.1.N.a.2	ASPLENIUM RUTA-MURARIA - PELLAEA ATROPURPUREA SPARSELY VEGETATED ALLIANCE	A.1832
	670	670-10 Shaded Outcrops	535 Mountains	VII.A.1.N.a.4	CYSTOPTERIS BULBIFERA SPARSELY VEGETATED ALLIANCE	A.1834
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680. Miscellaneous Marsh and Aquatic Communities	680	680-10 Misc. Aquatics	238	V.B.2.N.e.100	LUDWIGIA PEPLOIDES SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1928
	680	680-10 Misc. Aquatics	238	V.B.2.N.h.100	POLYGONUM SPP. (SECTION PERSICARIA) SEASONALLY FLOODED HERBACEOUS ALLIANCE	A.1881
	680	680-10 Misc. Aquatics	380	V.B.2.N.h.100	POLYGONUM SPP. (SECTION PERSICARIA) SEASONALLY FLOODED HERBACEOUS ALLIANCE POTAMOGETON SPP. - CERATOPHYLLUM SPP. - ELODEA SPP. PERMANENTLY FLOODED	A.1881
	680	680-10 Misc. Aquatics	239	V.C.2.N.a.14	HERBACEO POTAMOGETON SPP. - CERATOPHYLLUM SPP. - ELODEA SPP. PERMANENTLY FLOODED	A.1754
	680	680-10 Misc. Aquatics	380	V.C.2.N.a.14	HERBACEO	A.1754
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890. Ecological Group Not Assigned	890	890-10 Human-Dominated	180 NLCD Class 82	VIII.Z.1.C.y.1*	Agricultural Barren - Plowed / Fallow	A.9101
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.10*	Residential Coniferous Woodland	A.9110
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.11*	Residential Mixed Woodland	A.9111
	890	890-10 Human-Dominated	202 NLCD Class 21	V.B.2.N.b.11	SELAGINELLA TORTIPIILA HERBACEOUS ALLIANCE	A.1622
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.6*	Residential Deciduous Forest	A.9006
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.7*	Residential Coniferous Forest	A.9007
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.8*	Residential Mixed Forest	A.9008
	890	890-10 Human-Dominated	202 NLCD Class 21	VIII.Z.1.C.x.9*	Residential Deciduous Woodland	A.9109
	890	890-10 Human-Dominated	203 NLCD Class 23	VIII.Z.1.C.x.1*	Urban, low intensity development	A.9001
	890	890-10 Human-Dominated	204 NLCD Class 24	VIII.Z.1.C.x.2*	Urban, high intensity development	A.9002
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900. Altered, Modified, Alien, and Planted Communities	900	900-10 Timber Plantations	21	I.A.8.C.x.4	PINUS ECHINATA PLANTED FOREST ALLIANCE	A.94
	900	900-10 Timber Plantations	21	I.A.8.C.x.5	PINUS ELLIOTTII PLANTED FOREST ALLIANCE	A.95
	900	900-10 Timber Plantations	21	I.A.8.C.x.9	PINUS TAEDA PLANTED FOREST ALLIANCE	A.99
	900	900-10 Timber Plantations	21	I.A.8.C.x.1	PICEA ABIES PLANTED FOREST ALLIANCE	A.91
	900	900-10 Timber Plantations	21	I.A.8.C.x.6	PINUS PALUSTRIS PLANTED FOREST ALLIANCE	A.96
	900	900-10 Timber Plantations	21	I.A.8.C.x.7	PINUS RESINOSA PLANTED FOREST ALLIANCE	A.97
	900	900-10 Timber Plantations	21	I.A.8.C.x.8	PINUS STROBUS PLANTED FOREST ALLIANCE	A.98
	900	900-10 Timber Plantations	21	I.A.8.C.x.10	PINUS VIRGINIANA PLANTED FOREST ALLIANCE	A.100
	900	900-10 Timber Plantations	51	I.B.2.C.x.1	LIQUIDAMBAR STYRACIFLUA PLANTED FOREST ALLIANCE	A.209
	900	900-10 Timber Plantations	51	I.B.2.C.x.2	PLATANUS OCCIDENTALIS PLANTED FOREST ALLIANCE	A.210
	900	900-10 Timber Plantations	51	I.B.2.C.x.4	TAXODIUM DISTICHUM PLANTED FOREST ALLIANCE	A.212
	900	900-20 Managed or Modified Forests	21	I.A.8.N.b.16	PINUS TAEDA FOREST ALLIANCE	A.130
	900	900-20 Managed or Modified Forests	222 Piedmont	I.A.8.N.b.16	PINUS TAEDA FOREST ALLIANCE	A.130
	900	900-20 Managed or Modified Forests	383 Coastal Plain	I.C.3.N.a.23	ALLIANCE	A.403
	900	900-20 Managed or Modified Forests	383 Coastal Plain	I.C.3.N.b.5	PINUS TAEDA - LIRIODENDRON TULIPIFERA TEMPORARILY FLOODED FOREST ALLIANCE	A.434
	900	900-40 Successional Forests	20	I.A.8.N.b.15	PINUS TAEDA - PINUS ECHINATA - (JUNIPERUS VIRGINIANA) FOREST ALLIANCE	A.129
	900	900-40 Successional Forests	20	I.A.8.N.b.17	PINUS VIRGINIANA FOREST ALLIANCE	A.131
	900	900-40 Successional Forests	20	I.A.8.N.b.5	PINUS ECHINATA FOREST ALLIANCE	A.119
	900	900-40 Successional Forests	36	I.B.2.N.a.22	LIQUIDAMBAR STYRACIFLUA FOREST ALLIANCE	A.234
	900	900-40 Successional Forests	36	I.B.2.N.a.24	LIRIODENDRON TULIPIFERA FOREST ALLIANCE	A.236
	900	900-40 Successional Forests	36	I.B.2.N.a.44	ROBINIA PSEUDOACACIA FOREST ALLIANCE	A.256
	900	900-40 Successional Forests	36	III.B.2.N.a.18	VITIS AESTIVALIS VINE-SHRUBLAND ALLIANCE	A.911

900	900-40 Successional Forests	36	I.B.2.N.a.9	AILANTHUS ALTISSIMA FOREST ALLIANCE	A.221	
900	900-40 Successional Forests	36	III.A.2.N.a.1	LIGUSTRUM SINENSE SHRUBLAND ALLIANCE	A.738	
900	900-40 Successional Forests	36	II.B.2.N.a.9	PAULOWNIA TOMENTOSA WOODLAND ALLIANCE	A.609	
900	900-40 Successional Forests	36	II.B.2.N.a.17	QUERCUS LAEVIS WOODLAND ALLIANCE	A.617	
900	900-60 Herbaceous Alien-dominated Vegetation	205 NLCD Class 81	V.A.5.N.c.3	ANDROPOGON VIRGINICUS HERBACEOUS ALLIANCE	A.1208	
900	900-60 Herbaceous Alien-dominated Vegetation	205 NLCD Class 81	III.B.2.N.a.11	PUERARIA MONTANA VINE-SHRUBLAND ALLIANCE	A.904	
900	900-60 Herbaceous Alien-dominated Vegetation	205 NLCD Class 81	V.A.5.N.a.5	PHLEUM PRATENSE HERBACEOUS ALLIANCE	A.1195	
900	900-60 Herbaceous Alien-dominated Vegetation	205 NLCD Class 81	V.A.5.C.x.5	DACTYLIS GLOMERATA - RUMEX ACETOSELLA CULTIVATED HERBACEOUS ALLIANCE	A.1190	
900	900-60 Herbaceous Alien-dominated Vegetation	205 NLCD Class 81	V.A.5.N.c.8	FESTUCA SPP. HERBACEOUS ALLIANCE	A.1213	
900	900-60 Herbaceous Alien-dominated Vegetation	238	V.B.2.N.e.2	LUDWIGIA URUGUAYENSIS SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1670	
900	900-60 Herbaceous Alien-dominated Vegetation	238	V.C.2.N.a.5	HYDRILLA VERTICILLATA PERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1745	
900	900-60 Herbaceous Alien-dominated Vegetation	380	V.A.5.N.I.4	PHRAGMITES AUSTRALIS SEMIPERMANENTLY FLOODED HERBACEOUS ALLIANCE	A.1431	
-	900	900-60 Herbaceous Alien-dominated Vegetation	3	V.A.5.N.n.7	PHRAGMITES AUSTRALIS TIDAL HERBACEOUS ALLIANCE	A.1477

* Code assigned by NC GAP and used internally, these are not true alliance codes.

Key 1a. Classification Key for the North Carolina's Gap Analysis Map Units.

Appendix C. Dichotomous Key to the North Carolina Gap Map Units.

Water

Open water, includes fresh, brackish and salt water with inclusions of submerged aquatic vegetation (8)

Terrestrial

Anthropogenically dominated land cover

Developed Land

Low intensity residential (202)

High intensity residential (203)

Commercial/Industrial/Transportation (204)

Agriculture

Row crop (180)

Pasture/Hay/Abandoned field and urban/recreational grasses (205)

Barren

Quarries/Strip Mines/Gravel Pits (213)

Bare rock/Sand/Clay (214)

Natural/Semi-natural Land cover (see Key 1b)

Key 1b. Classification Key for the North Carolina's Gap Analysis Map Units.

Coastal Plain

Tidal and estuarine (wetland)

Forest/Woodland;

230 – 10 Tidal Swamp Forest (75)

Shrub/Herbaceous

110 – 10 Tidal Marshes (3)

110 – 20 Tidal Shrublands (124 in part)

110- 30 Hypersaline Coastal Flats (375)

Palustrine (wetland)

Depression/Saturated

Forest/Woodland/Shrubland

Maritime Depression Forest/Woodland/Shrubland

250 – 10 Interdune Wooded Depression Swamps (126)

Inland Forests/Woodlands/Shrublands

Forests/Woodlands on Mineral Soils

Forests/Woodlands dominate by *Taxodium* or *Nyssa* spp;

310 – 20 Pond-cypress - Gum Dome Swamps &

310 – 40 Savannas and Southeastern Coastal Plain

Lakeshores (78)

Forests dominated by bottomland oaks and hardwoods;

360- X Coastal Plain Nonriverine Wet Flat Forests (158)

Forests/Woodlands/Shrublands on Peatland Soils

Predominantly Deciduous Forests/Woodlands/Shrublands

340 – X Coastal Plain Seepage and Streamhead Swamps (15)

Predominantly Evergreen Forests/Woodlands/Shrublands

Stands dominated by White-cedar;

350-20 Peatland Atlantic White-cedar Forests (41)

Stands dominated by pine.

Pond pine Woodlands with evergreen shrub dominated
understory;

310 – 30 and 350-10 Pocosin Depressions (87)

Longleaf Flatlands with grass dominated understory;

300 – 10 Wet Longleaf or Slash Pine Savanna (67)

Herbaceous

Maritime Herbaceous Wetlands;

250 – 20 Interdune Herbaceous Wetlands (372)

Inland Herbaceous Wetlands;

320 – X Coastal Plain Depression Ponds and Lakeshore Marshes &
Coastal Plain Seepage Bogs (380 in part.)

Key 1b. Classification Key for the North Carolina's Gap Analysis Map Units.

Riverine/Alluvial

Forest/Woodland

Strong dominance of Cypress and/or Nyssa species;
380 – 05 Cypress-gum Floodplain Forests (30)

Stands not dominated by Cypress and/or Nyssa species.
Dominance of wetland oak species.;
380 – 10 Oak Bottomland Forests (49)

Dominance of non-oak hardwood species;
380 – 15 Mixed Hardwood Bottomland Forests (50)

Shrub;
380 – 25 (in part) Riverbank Shrublands (173)

Herbaceous;
380 – 35 Coastal Plain Riverbed and Streambed Vegetation &
Floodplain Pools & Beaver Marshes and 680 – 10

Misc. Aquatics
380 (in part)

Upland

Forest/Woodland

Predominantly Evergreen Forests and Woodlands

Planted Evergreen Forests
900-10 (in part) Timber Plantations – Evergreen (20, 21)

Natural/Semi-natural Evergreen Forests

Maritime Evergreen Forests/Woodlands

Maritime Southern Yellow pine dominated Forests/woodlands;
240 – 10 Maritime Pinelands, (121)

Maritime Broadleaf Evergreen Forests/Woodlands;
270 – 30 Broadleaf Maritime Forests and Hammocks (17)

Interior Evergreen Forests/Woodlands

Forests/Woodlands on excessively drained soils;
290 – 10 Xeric Longleaf Pine (42)

Forests/Woodlands on mesic sites;
290 – 20 Mesic Longleaf Pine (97)

Key 1b. Classification Key for the North Carolina's Gap Analysis Map Units.

Predominantly Deciduous Forests and Woodlands

Planted Forests/Woodlands

900-10 (in part) Timber Plantations - Deciduous (51)

Natural/Semi-Natural Forests/Woodlands

Xeric deciduous forests/woodlands;

460 –10 Xeric Oak - Pine Forests (46)

Dry-Mesic or Mesic forests/woodlands.

Mesic deciduous forests/woodlands;

400 – 10 Mesic Hardwood Forests (63)

Dry-mesic deciduous forests/woodlands;

390 –10 Dry-mesic Oak Forests (138)

Shrub;

150 - 10 Maritime Scrubs (124 in part)

Herbaceous;

140 – 10 Maritime Grasslands (371)

“Substrate-driven; 120 – 10 Ocean Beaches (378)

Mountains / Piedmont

Palustrine (wetland)

Depression/Saturated

Forest/Woodland

470 – 10 Appalachian Forested Bogs

470 – 20 Interior Streamhead Seepage Swamp (533)

Shrub/Herbaceous

470 – 40 Appalachian Bogs, Fens and Seeps (534)

Riverine/Alluvial

Forest/Woodland

Predominantly Evergreen Forest

380 – 20 Floodplain Eastern Hemlock Forests (517)

Predominantly Deciduous Forests

Wetland oaks dominant

380 – 10 (in part) Oak Bottomland Forests (385)

Non-oak dominated bottomlands

380 – 15 (in part) Mixed Hardwood Bottomland Forests (384)

Key 1b. Classification Key for the North Carolina's Gap Analysis Map Units.

Shrub

Temporarily to Seasonally Flooded Riverine Shrublands
380 – 25 Riverbank Shrublands (267)

Saturated to Permanently Flooded Riverine Shrublands
380 – 30 Floodplain Wet Shrublands (269)

Herbaceous

Emergent Vegetation
380 – 40 (in part) Eastern Interior Rocky Riverbed Herbaceous Vegetation
& Beaver Marshes and 680 – 10 Misc. Aquatics (239)

Submerged aquatic vegetation

380 – 40 (in part) Eastern Interior Rocky Riverbed Herbaceous Vegetation &
680 – 10 Misc. Aquatics (238)

Upland

Forest/Woodland

Predominantly Evergreen or Mixed Forests and Woodlands

Managed or Modified Forests

Planted Evergreen Forests

900 – 10 (in part) Timber Plantations (20, 21 in part)

Successional Mixed Forests

900 – 20 Piedmont Mixed Successional Forests (383)

Natural/Semi-Natural Evergreen Forest/Woodland

High Elevation Evergreen Forest/Woodland

420 – 10 Appalachian Spruce-fir Forests (521)

Low-Moderate Elevation Evergreen and Mixed Forest/Woodland

Dry-Mesic Evergreen Forests

Hemlock dominated Forests

450 – 20 Upland Eastern Hemlock Forests (527)

Southern Yellow Pine Dominated Forests

390 – 10 Dry-Mesic Pine Forest (222, 519)

Xeric Evergreen and Mixed Forest

Strongly evergreen dominated Xeric Forests/Woodlands

460 – 10 (in part) Xeric – Oak Pine Forests and Shortleaf Pine Woodlands
and Forests (220, 528)

Mixed Xeric Forests/ Woodlands

460 – 10 (in part) Xeric Oak Pine Forests &

410 – X Glades and Barrens (in part) (232, 529)

Key 1b. Classification Key for the North Carolina's Gap Analysis Map Units.

Predominantly Deciduous Forests and Woodlands
Successional Forest following clearcutting
900 – 10 (in part) Successional Deciduous Forests (36, 51)

Natural/Semi-Natural Deciduous Forest

High Elevation Deciduous Forests

Oak Dominated High Elevation Forests

440 – 10 Appalachian Oak Forest (525)

High Elevation Forests dominated by Yellow birch, American
beech and yellow buckeye.

420 – 20 Appalachian Northern Hardwood Forests (522)

Low to Moderate Elevation Deciduous Forests

Forests of protected landform positions

450 – 10 Appalachian Cove Forest (526)

Forests not in protected landform positions

Forests/Woodlands on mesic sites

400 – 10 Mesic Hardwood Forests (230, 520)

Forests/Woodlands on Dry-mesic sites

390 – 10 Dry-Mesic Oak Forests (228, 518)

Deciduous Forests/Woodlands on Xeric sites

460 – 10 (in part) Xeric Oak – Pine Forests,

410 – X (in part) Piedmont Xeric Woodlands
(226, 530)

Shrub

430 – 20 Appalachian Shrub Balds (524)

Herbaceous

430 – 10 Appalachian Grassy Balds (523)

“Substrate-driven”

Open woodlands with inclusions of exposed bedrock

410 – X Glades and Barrens (220 in part, 226 in part)

Vertical slopes with inclusions of exposed bedrock

650 – 05 Cliffs, 660 – 10 Talus, and 670 – 10 Outcrops (535)

FOOT NOTE: 130 – X Seagrass and Estuarine Aquatic Beds (8, in part)

Appendix D. 1992 National Land Cover Classification System.

Level I.	Level II.	Original NLDC Southeast Code	Current NLDC National Code	NC GAP Masking Status
Water	Open Water	201	11	class maintained with additions
	Perennial Ice	-	12	-
Developed	Low Intensity Residential	202	21	class maintained
	High Intensity Residential	203	22	class maintained
Barren	Commercial/Industrial/Transportation	204	23	class maintained with additions
	Bare Rock/Sand/Clay	214	31	class maintained
	Quarries/Strip Mines/Gravel Pits	213	32	class maintained
Forested Upland	Transitional	215	33	class maintained with additions
	Deciduous Forest	210	41	reprocessed
	Evergreen Forest	208	42	reprocessed
	Mixed Forest	209	43	reprocessed
Shrub land		-	51	-
Non-Natural Woody	Orchards/Vineyards/other	-	61	-
Herbaceous Upland	Grasslands/Herbaceous	-	71	-
Herbaceous Planted/Cultivated	Pasture/Hay	205	81	class maintained with additions
Wetland	Row Crops	206	82	class maintained with additions
	Small Grains	-	83	-
	Fallow	-	84	-
	Urban/Recreational Grasses	207	85	class merged with 205
	Woody Wetlands	211	91	reprocessed
	Emergent Herbaceous Wetlands	212	92	reprocessed

Appendix E. Recoding scheme for National Wetland Inventory classification. Using this scheme two raster data sets were created which represented the NWI information. For the primary data set, a six digit numeric code was developed to represent the system, subsystem, class, and descriptor NWI variables. Similarly, a three digit numeric code was developed to represent the water regime and modifiers for the secondary raster data set. For example, a polygon labeled as palustrine, forested, needle-leaved deciduous, permanently flooded by a beaver has an NWI code of PFO2Hb. The raster data sets would have numeric codes of 502125 and 181.

Primary Raster Data Set Coding:

Numeric Code (digit 1,2)	NWI Code	System/Subsystem
11	M1	Marine Subtidal
12	M2	Marine Intertidal
21	E1	Estuarine Subtidal
22	E2	Estuarine Intertidal
33	R1	Riverine Tidal
34	R2	Riverine Lower Perennial
35	R3	Riverine Upper Perennial
36	R4	Riverine Intermittent
37	R5	Riverine Unknown Perennial
48	L1	Lacustrine Limnetic
49	L2	Lacustrine Littoral
50	P	Palustrine
60	U	Upland
99		Unknown

Numeric Code (digit 3,4)	NWI Code	Class
00		n/a
01	RB	Rocky Bottom
02	RS	Rocky Shore
03	UB	Unconsolidated Bottom
04	US	Unconsolidated Shore
05	SB	Streambed
11	AB	Aquatic Bed
12	EM	Emergent
21	FO	Forested
31	RF	Reef
41	ML	Moss-Lichen
42	SS	Scrub-Shrub
91	OW	Open Water
99		Unknown

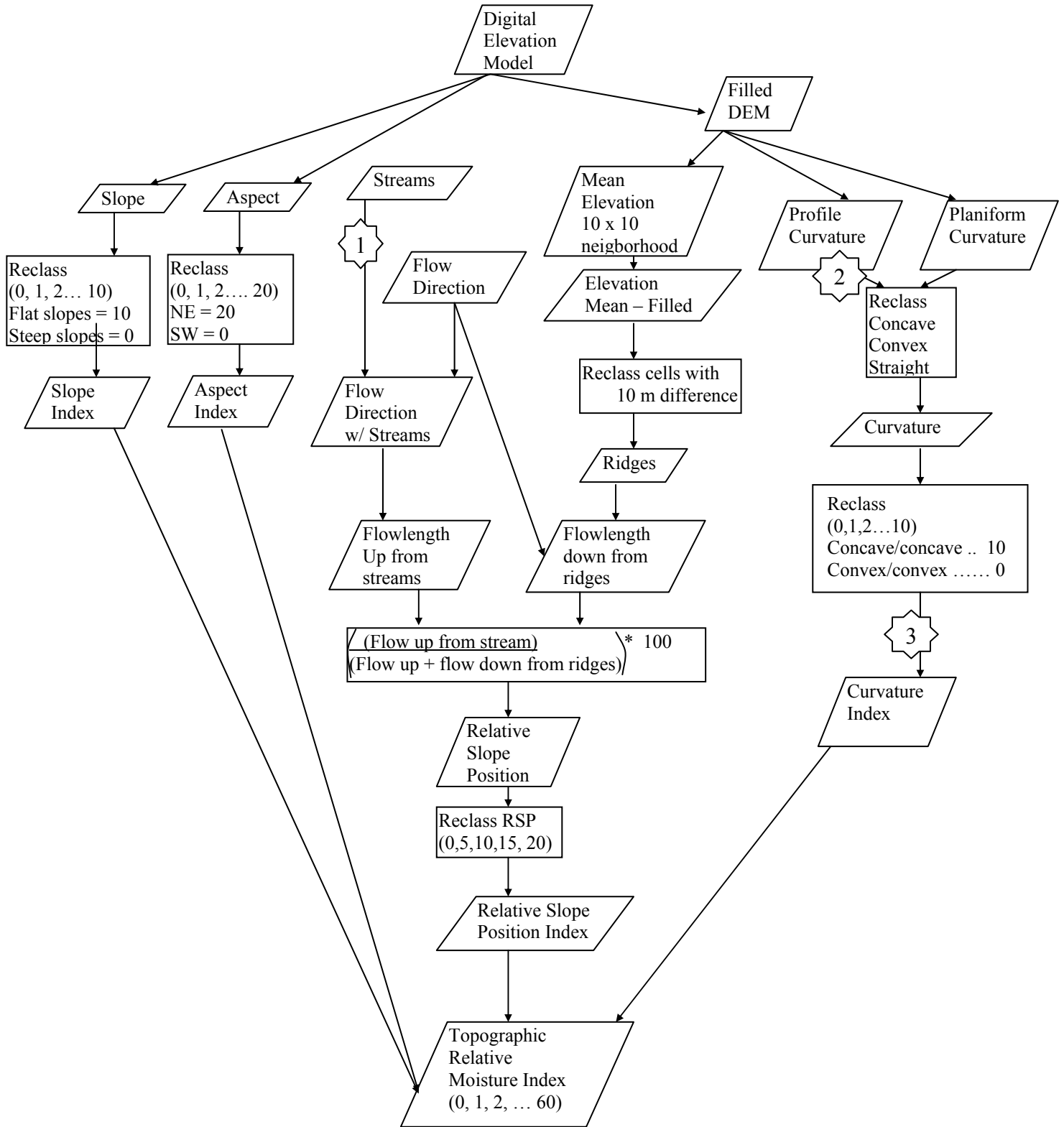
Numeric Code (digit 5,6)	NWI Descriptor
00	n/a
01	Bedrock
02	Cobble/gravel
03	Mud
04	Rubble
05	Sand
06	Organic
11	Algal
12	Aquatic moss
13	Floating Vascular
14	Rooted Vascular
21	Broad-leafed Deciduous
22	Broad-leafed Evergreen
23	Deciduous
24	Evergreen
25	Needle-leafed Deciduous
26	Needle-leafed Evergreen
27	Vegetated
31	Coral
32	Mollusc
33	Worm
41	Lichen
42	Moss
51	Nonpersistent
52	Persistent
71	Dead
91	Unknown Bottom
92	Unknown Submergent
93	Unknown Surface
99	Unknown

Secondary Raster Data Set Coding:

Numeric Code (digit 1,2)	NWI Code	Water Regime	
0	none		
11	A	non-tidal	Temporarily flooded
12	B	non-tidal	Saturated
13	C	non-tidal	Seasonally flooded
14	D	non-tidal	Seasonally flooded/well drained
15	E	non-tidal	Seasonally flooded/saturated
16	F	non-tidal	Semipermanently flooded
17	G	non-tidal	Intermittently exposed
18	H	non-tidal	Permanently flooded
19	J	non-tidal	Intermittently flooded
20	K	non-tidal	Artificially flooded
21	W	non-tidal	Intermittently flooded/Temporarily
22	Y	non-tidal	Saturated/Semiperment/seasonal
23	Z	non-tidal	Intermittently exposed/permanent
24	U	non-tidal	Unknown
30	K	tidal	Artificially flooded
31	L	tidal	subtidal
32	M	tidal	irregularly exposed
33	N	tidal	regularly flooded
34	P	tidal	irregularly flooded
35	S	tidal	Temporary-tidal
36	R	tidal	Seasonal-tidal
37	T	tidal	Semipermanent-tidal
38	V	tidal	Permanent-tidal
39	U	tidal	unknown

Numeric Code (digit 32)	NWI Code	Modifier
0	none	
1	b	beaver
2	d	partially drained/ditched
3	f	farmed
4	h	diked/impounded
5	r	artificial substrate
6	s	spoil
7	x	excavated

Appendix F. Generalized Flow Diagram for Calculating Topographic Relative Moisture Index based on Halpin (1999). See discussion of modifications below.



Modifications

1. We used stream data supplied by the North Carolina Center for Geographic Information and Analysis's 1:24,000 hydrography coverage to identify streams, as opposed to using stream flow accumulation to determine the stream network.
2. Due to a problem in ARC/VIEW and ARC/INFO's calculation of profile curvature, the output grid must be multiplied by -1 to get the correct scaling of the data.
3. The scaling for the slope configuration was modified to incorporate a score for convex/concave and the concave/convex slope configurations.

Slope Configuration		Index Values
Profile curvature	Planiform curvature	
Concave	Concave	10
Concave	Straight	8
Concave	Convex	7
Straight	Straight	5
Convex	Concave	3
Convex	Straight	2
Convex	Convex	0

Appendix G. North Carolina Map Classes, Areal Extents, and Percentages.

Map Unit	Cover Class	Area (Km ²)	Area (ha)	Percent
3	Tidal Marsh	918.6	91863	< 1
8	Open water	13558.8	1355879	10
15	Seepage and Streamhead Swamps	522.9	52293	< 1
17	Maritime Forests and Hammocks	125.5	12548	< 1
20	Coniferous Regeneration	2153.4	215340	2
21	Coniferous Cultivated Plantation (natural / planted)	9662	966199	7
30	Cypress-Gum Floodplain Forests	2177.2	217717	2
36	Successional Deciduous Forests	4386.9	438689	3
41	Peatland Atlantic White-Cedar Forest	281	28099	< 1
42	Xeric Longleaf Pine	2805.7	280569	2
46	Xeric Oak - Pine Forests	2.2	218	0
49	Coastal Plain Oak Bottomland Forest	2101.4	210139	2
50	Coastal Plain Mixed Bottomland Forests	1297.9	129792	< 1
51	Deciduous Cultivated Plantation	30.6	3063	< 1
60	Sand	69.9	6993	< 1
63	Coastal Plain Mesic Hardwood Forests	499	49900	< 1
67	Wet Longleaf or Slash Pine Savanna	472.3	47225	< 1
75	Tidal Swamp Forest	369.3	36928	< 1
78	Pond-Cypress - Gum Swamps, Savannas and Lakeshores	10.4	1045	< 1
87	Pocosin Woodlands and Shrublands	4635.3	463532	3
97	Mesic Longleaf Pine	1006.9	100687	< 1
121	Maritime Pinelands	322.7	32273	< 1
124	Maritime Scrubs and Tidal Shrublands	44.4	4436	< 1
126	Interdune Wooded Depression Swamp	0.7	70	0
138	Coastal Plain Dry to Dry-Mesic Oak Forests	1380.6	138057	< 1
158	Coastal Plain Nonriverine Wet Flat Forests	2122.9	212291	2
173	Coastal Plain Riverbank Shrubs	17.7	1774	< 1
180	Agricultural Crop Fields	24277.8	2427785	17
202	Residential Urban	2740.2	274021	2
203	Urban Low-Intensity Developed	650.2	65017	< 1
204	Urban High-Intensity Developed & Transportation Corridors	1494.4	149445	1
205	Agricultural Pasture/Hay and Natural Herbaceous	10677.9	1067787	8
213	Barren; quarries, strip mines, and gravel pits	122.4	12242	< 1
214	Barren; bare rock and sand	162.2	16223	< 1
220	Piedmont Xeric Pine Forests	937.7	93770	< 1
222	Piedmont Dry-Mesic Pine Forests	3999.5	399945	3
226	Piedmont Xeric Woodlands	2764.7	276470	2
228	Piedmont Dry-Mesic Oak and Hardwood Forests	9814.4	981441	7
230	Piedmont Mesic Forest	3296.8	329677	2
232	Xeric Pine-Hardwood Woodlands and Forests	1071.4	107142	< 1
238	Piedmont/Mountain Submerged Aquatic Vegetation	30	3004	< 1
239	Piedmont/Mountain Emergent Vegetation	15.1	1514	< 1
267	Riverbank Shrublands	57.4	5740	< 1
269	Floodplain Wet Shrublands	53.6	5359	< 1
371	Maritime Grasslands	105.9	10589	< 1
372	Interdune Herbaceous Wetlands	5.8	575	0

375	Hypersaline coastal salt flats	0.5	46	0
378	Ocean Beaches	54.1	5415	< 1
380	Coastal Plain Fresh Water Emergent	182.4	18245	< 1
382	Dry Mesic Oak Pine Forests	5906.7	590668	4
383	Piedmont Mixed Successional Forest	2146.6	214661	2
384	Piedmont/Mountain Mixed Bottomland Hardwood Forests	766.3	76626	< 1
385	Oak Bottomland Forest and Swamp Forest	824.6	82459	< 1
517	Hemlock Floodplain Forest	233.7	23372	< 1
518	Dry Mesic Oak Forest	7180.4	718044	5
519	Dry Mesic Mixed Forest	1655.4	165538	1
520	Mesic Hardwood Forest	292.7	29274	< 1
521	Spruce/Fir Forest	152	15204	< 1
522	Northern Hardwood Forest	145.7	14571	< 1
523	Grassy Bald	3.3	327	0
524	Shrub Bald	208	20800	< 1
525	Appalachian Oak Forest	2249.3	224933	2
526	Appalachian Cove Forest	2359.6	235965	2
527	Appalachian Hemlock	381.4	38144	< 1
528	Appalachian Xeric Pine Forest	474.3	47426	< 1
529	Appalachian Xeric Mixed Forest	87.1	8712	< 1
530	Appalachian Xeric Deciduous Forest	501.4	50136	< 1
533	Appalachian Swamp Forest	0.4	44	0
534	Appalachian Wet Shrubland/ Herbaceous	0.8	76	0
535	Talus/Outcrops/Cliffs	0.4	36	0
Total Area		139060.8	13906079	100

Appendix H. Spatial accuracy assessment points with measured offsets.

Point ID	QuadName	From Points		To Points		Shift X (m)	Shift Y (m)	Total Shift
		StatePlaneX	StatePlaneY	StatePlaneX	State PlaneY			
1	Laurinburg_2	572521.2	124079.7	572546.8	124077.4	-25.6	2.3	25.7
2	Manteo_2	913008.3	251771.4	912976.9	251780.8	31.4	-9.3	32.8
3	Ft. Landing	875671.0	247591.6	875692.0	247523.6	-21.0	68.0	71.2
4	Engelhard W	878428.5	208683.6	878372.8	208630.4	55.6	53.3	77.0
5	Bayboro	810719.6	163890.8	810736.8	163907.4	-17.2	-16.6	23.9
6	Farmville	744296.4	208764.7	744300.5	208776.2	-4.1	-11.5	12.2
7	Fremont	708978.3	206402.8	709002.7	206374.4	-24.5	28.4	37.5
8	Grimesland	775648.7	205711.0	775672.1	205721.4	-23.4	-10.4	25.6
9	Halifax	738750.1	289315.8	738728.3	289329.1	21.8	-13.3	25.5
10	Hamilton	777809.2	248341.7	777823.8	248342.4	-14.6	-0.7	14.6
11	Hollister	709053.9	290501.6	709029.6	290498.0	24.2	3.6	24.5
12	Holly Ridge	746069.0	81091.0	746075.0	81106.0	-6.0	-15.0	16.1
13	Jasper	776696.5	167433.2	776709.1	167427.4	-12.6	5.8	13.9
14	Newport	815339.8	121618.5	815385.7	121606.5	-45.9	12.0	47.5
15	Ponzer	847529.9	203970.6	847537.6	203909.3	-7.7	61.3	61.8
16	Rivermont	744540.4	161761.5	744514.1	161740.9	26.2	20.7	33.4
17	Rocky Point	713068.2	80821.2	713080.9	80840.2	-12.8	-19.0	22.9
18	Shiloh	873989.6	291177.7	873978.1	291151.1	11.5	26.6	29.0
19	Stella	780685.8	119400.7	780671.8	119425.0	13.9	-24.3	28.0
20	Tarboro	739233.7	250166.0	739249.3	250197.3	-15.6	-31.3	35.0
21	Woodard	807755.1	247590.0	807773.2	247617.4	-18.1	-27.4	32.8
22	Angier	639989.2	205047.8	640007.8	205043.1	-18.7	4.7	19.2
23	Aquadale	504808.7	160187.6	504781.4	160196.0	27.3	-8.4	28.6
24	Bald Creek	300446.7	251309.0	300472.2	251306.6	-25.5	2.4	25.6
25	Bayleaf	638036.0	245554.5	638027.8	245498.1	8.2	56.3	56.9
26	Bear Creek	574171.5	205768.2	574198.5	205737.7	-27.0	30.5	40.7
27	Berea	643136.2	287668.8	643134.9	287646.8	1.3	22.0	22.0
28	Bethany	537807.7	291119.3	537825.8	291083.4	-18.2	35.9	40.2
29	Boiling Springs	370590.6	163375.6	370619.3	163324.4	-28.7	51.1	58.6
30	Bunn West	677047.7	248782.5	677133.8	248780.6	-86.1	1.9	86.1
31	Canton	265080.6	210176.0	265101.6	210174.8	-21.0	1.3	21.0
32	Cherry Grove	575036.0	288450.0	575054.4	288410.8	-18.4	39.1	43.3
33	China Grove	468058.9	209254.3	468063.4	209232.8	-4.5	21.4	21.9
34	Clarkton	642087.5	78029.4	642093.0	78000.8	-5.5	28.6	29.1
35	Collettsville	371669.4	246210.5	371709.9	246206.4	-40.5	4.1	40.7
36	Diggs	538316.7	118166.2	538346.0	118191.0	-29.4	-24.8	38.4
37	Ellendale	405958.5	245669.3	405914.6	245630.6	43.9	38.7	58.5
38	Fingerville	335428.6	169491.3	335461.6	169452.7	-33.0	38.6	50.7
39	Harrisville	539698.5	160796.7	539633.6	160801.7	64.9	-5.0	65.1
40	High Rock	504507.7	203370.2	504526.9	203349.2	-19.1	21.0	28.4
41	Ingold	674458.3	124320.1	674409.0	124320.8	49.3	-0.7	49.3
42	Jerome	641036.4	120788.7	641067.7	120750.2	-31.3	38.5	49.6
43	Kelly	674730.4	82255.4	674754.6	82250.0	-24.2	5.4	24.8
44	Lake Norman	439226.5	206876.6	439201.4	206860.9	25.1	15.7	29.6
45	Midland	472020.9	165393.3	472020.2	165334.1	0.7	59.2	59.2
46	Mocksville	473283.1	247199.5	473258.5	247194.8	24.5	4.7	25.0
47	Newton Grove	675275.4	164024.8	675334.6	164036.8	-59.1	-12.0	60.3
48	Rennert	607530.4	121137.4	607571.7	121127.8	-41.3	9.6	42.4
49	Seagrove	541887.6	204777.9	541951.6	204783.8	-64.1	-5.9	64.3
50	Wade	642543.0	165693.3	642542.7	165726.7	0.3	-33.4	33.4
Mean						38.1	25.5	21.6
Std						17.7	18.1	18.0

Appendix I. Estimated Thematic Accuracy for the Detailed Land Cover Classes.

Lambda (λ) - the probability of the map being correct, given the map category.

Theta (θ) - the probably of the map being correct given the true category. n - represents the number of reference points within each map class.

Cover Class	map unit	lambda - % -	theta - % -	n	Area km2
Tidal Marsh	3	97	70	173	918.6
Open water	8	59	99	53	13558.8
Seepage and Streamhead Swamps	15	71	75	43	522.9
Maritime Forests and Hammocks	17	78	15	89	125.5
Coniferous Regeneration	20	88	47	302	2153.4
Coniferous Cultivated Plantation	21	78	72	1112	9662.0
Cypress-Gum Floodplain Forests	30	69	83	214	2177.2
Successional Deciduous Forests	36	81	59	436	4386.9
Peatland Atlantic White-Cedar Forest	41	79	86	22	281.0
Xeric Longleaf Pine	42	81	75	317	2805.7
Coastal Plain Xeric Oak - Pine Forests	46	100	100	1	2.2
Coastal Plain Oak Bottomland Forest	49	78	67	262	2101.4
Coastal Plain Mixed Bottomland Forest	50	83	50	209	1297.9
Deciduous Cultivated Plantation	51	0	0	14	30.6
Sand	60	0	0	9	69.9
Coastal Plain Mesic Hardwood Forest	63	72	23	112	499.0
Wet Longleaf or Slash Pine Savanah	67	55	60	72	472.3
Tidal Swamp Forest	75	95	62	82	369.3
Pond-Cypress - Gum Swamps, Savanah	78	96	2	37	10.4
Pocosin Woodlands and Shrublands	87	73	93	255	4635.3
Mesic Longleaf Pine	97	84	45	272	1006.9
Maritime Pinelands	121	80	78	18	322.7
Maritime Scrubs and Tidal Shrubland	124	75	81	8	44.4
Interdune Wooded Depression Swamp	126	100	1	10	0.7
Coastal Plain Dry to Dry-Mesic Oak Forest	138	19	44	29	1380.6
Coastal Plain Nonriverine Wet Floodplain Forest	158	82	67	251	2122.9
Coastal Plain Riverbank Shrubs	173	0	0	0	17.7
Agricultural Crop Fields	180	92	80	1439	24277.8
Residential Urban	202	21	94	11	2740.2
Urban Low-Intensity Developed	203	100	0	2	650.2
Urban High-Intensity Developed	204	53	74	13	1494.4
Agricultural Pasture/Hay and Natural Herbaceous	205	21	87	67	10677.9
Barren; Quarries, Strip Mines, and Gravel Pits	213	43	71	5	122.4
Barren; Bare Rock and Sand	214	50	0	1	162.2

Cover Class	map unit	lambda	theta	n	Area km2
		- % -	- % -		
Piedmont Xeric Pine Forests	220	55	62	52	937.7
Piedmont Dry-Mesic Pine Forests	222	0	0	0	3999.5
Piedmont Xeric Woodlands	226	28	91	31	2764.7
Piedmont Dry-Mesic Oak and Hardwood Forest	228	60	73	948	9814.4
Piedmont Mesic Forest	230	27	80	63	3296.8
Xeric Pine-Hardwood Woodlands and Forest	232	92	10	944	1071.4
Piedmont/Mountain Submerged Aquatic	238	0	0	0	30.0
Piedmont/Mountain Emergent Vegetation	239	0	0	5	15.1
Riverbank Shrublands	267	0	0	1	57.4
Floodplain Wet Shrublands	269	0	0	0	53.6
Maritime Grasslands	371	100	65	12	105.9
Interdune Herbaceous Wetlands	372	0	0	0	5.8
Hypersaline Coastal Salt Flats	375	0	0	0	0.5
Ocean Beaches	378	0	0	0	54.1
Coastal Plain Fresh Water Emergent	380	50	9	9	182.4
Dry Mesic Oak Pine Forests	382	23	64	148	5906.7
Piedmont Mixed Successional Forest	383	77	20	685	2146.6
Piedmont/Mountain Mixed Bottomland Forest	384	32	17	71	766.3
Oak Bottomland Forest and Swamp	385	42	44	37	824.6
Hemlock Floodplain Forest	517	23	100	5	233.7
Dry Mesic Oak Forests	518	16	98	47	7180.4
Dry Mesic Mixed Forest	519	26	90	40	1655.4
Mesic Hardwood Forest	520	33	32	22	292.7
Spruce/Fir Forest	521	92	40	73	152.0
Northern Hardwoods	522	97	15	177	145.7
Grassy Bald	523	60	8	7	3.3
Shrub Bald	524	75	32	74	208.0
Appalachian Oak Forest	525	77	39	505	2249.3
Appalachian Cove Forest	526	60	67	217	2359.6
Appalachian Hemlock	527	64	23	91	381.4
Appalachian Xeric Pine Forest	528	55	32	62	474.3
Appalachian Xeric Mixed Forest	529	92	2	171	87.1
Appalachian Xeric Deciduous Forest	530	70	23	106	501.4
Appalachian Swamp Forest	533	0	0	20	0.4
Appalachian Wet Shrubland/ Herbaceous	534	0	0	4	0.8
Talus/Outcrops/Cliffs	535	100	0	53	0.4
				10620	139061

Appendix K. List of Expert Reviewers.

Amphibians

Jeff Beane, Herpetology Collections Manager, NC State Museum of Natural Sciences
Alvin Braswell, Curator of Herpetology, NC State Museum of Natural Sciences
John E. Fauth, Associate Professor, Dept. of Biology, College/University of Charleston,
Charleston, SC
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources
Commission
Chuck Peoples, Wildlife Biologist, Champion Paper Company - North Carolina
Allen Ratzlaff, Fish and Wildlife Biologist, USFWS - Western NC

Birds

David Allen, Coastal Non-Game Project Leader, NC Wildlife Resources Commission
Cynthia Britton, Deputy Refuge Manager, USFWS Great Dismal Swamp National
Wildlife Refuge, VA
John Gerwin, Collections Manager-Birds, NC State Museum of Natural Sciences
Walker Golder, Coastal Coordinator, National Audubon Society
Lamar Gore, Wildlife Biologist, USFWS
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Mark Johns, NC Coordinator-Partners in Flight, NC Wildlife Resources Commission
David Lee, Curator of Birds, NC State Museum of Natural Sciences
Harry LeGrand, Zoologist, NC Natural Heritage Program
Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources
Commission
Wib Owen, Land Management Section Leader, NC Wildlife Resources Commission
John Stanton, Refuge Biologist, Mattamuskeet National Wildlife Reserve
Raleigh USFWS office (group effort)

Mammals

Stephen Busack, Director, Research and Collections, NC Museum of Natural Sciences
Mary K. Clark, Curator of Mammals, NC Museum of Natural Sciences
Lisa Gatens, Mammalogy Collections Manager, NC Museum of Natural Sciences
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Mark D. Jones, Black Bear Project Leader, NC Wildlife Resources Commission
Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources
Commission
Chuck Peoples, Wildlife Biologist, Champion Paper Company - North Carolina
David Sawyer, Wildlife Biologist, NC Wildlife Resources Commission
John Ann Shearer, State Coordinator for Partners for Fish and Wildlife, USFWS -
Raleigh, NC
John Stanton, Refuge Biologist, Mattamuskeet National Wildlife Reserve
Perry Sumner, Furbearer Project Leader, NC Wildlife Resources Commission
David Webster, Professor and Curator of Mammals, UNC Wilmington
Peter Weigl, Professor, Wake Forest University

Raleigh USFWS office (group effort)

Reptiles

Jeff Beane, Herpetology Collections Manager, NC State Museum of Natural Sciences

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John E. Fauth, Associate Professor, Dept. of Biology, College/University of Charleston,
Charleston, SC

John Groves, Curator of Reptiles and Amphibians, NC Zoological Park

Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources
Commission

Chuck Peoples, Wildlife Biologist, Champion Paper Company - North Carolina

Allen Ratzlaff, Fish and Wildlife Biologist, USFWS - Western NC

David Sawyer, Wildlife Biologist, NC Wildlife Resources Commission

Raleigh USFWS office (group effort)

Appendix L. Species list with taxonomic nomenclature. Source of nomenclature and species EICode is from NatureServe.

EICode	Order	Family	Scientific Name	Common Name
AAAAA01070	CAUDATA	AMBYSTOMATIDAE	AMBYSTOMA MABEEI	MABEE'S SALAMANDER
AAAAA01090	CAUDATA	AMBYSTOMATIDAE	AMBYSTOMA MACULATUM	SPOTTED SALAMANDER
AAAAA01100	CAUDATA	AMBYSTOMATIDAE	AMBYSTOMA OPACUM	MARBLED SALAMANDER
AAAAA01120	CAUDATA	AMBYSTOMATIDAE	AMBYSTOMA TALPOIDEUM	MOLE SALAMANDER
AAAAA01140	CAUDATA	AMBYSTOMATIDAE	AMBYSTOMA TIGRINUM	TIGER SALAMANDER
AAAAB01010	CAUDATA	AMPHIUMIDAE	AMPHIUMA MEANS	TWO-TOED AMPHIUMA
AAAAC01010	CAUDATA	CRYPTOBRANCHIDAE	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER
AAAAD01010	CAUDATA	PLETHODONTIDAE	ANEIDES AENEUS	GREEN SALAMANDER
AAAAD03010	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER
AAAAD03020	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS AURICULATUS	SOUTHERN DUSKY SALAMANDER
AAAAD03040	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS FUSCUS	DUSKY SALAMANDER
AAAAD03050	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS IMITATOR	IMITATOR SALAMANDER
AAAAD03060	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS MONTICOLA	SEAL SALAMANDER
AAAAD03080	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS QUADRAMACULATUS	BLACKBELLY SALAMANDER
AAAAD03100	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS WRIGHTI	PIGMY SALAMANDER
AAAAD03110	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS SANTEETLAH	SANTEETLAH DUSKY SALAMANDER
AAAAD03130	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER
AAAAD03140	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS OCOEE	OCOEE SALAMANDER
AAAAD03150	CAUDATA	PLETHODONTIDAE	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER
AAAAD05020	CAUDATA	PLETHODONTIDAE	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER
AAAAD05040	CAUDATA	PLETHODONTIDAE	EURYCEA LONGICAUDA	LONGTAIL SALAMANDER
AAAAD05090	CAUDATA	PLETHODONTIDAE	EURYCEA QUADRIDIGITATA	DWARF SALAMANDER
AAAAD05140	CAUDATA	PLETHODONTIDAE	EURYCEA CIRRIGERA	SOUTHERN TWO-LINED SALAMANDER
AAAAD05150	CAUDATA	PLETHODONTIDAE	EURYCEA WILDERAE	BLUE RIDGE TWO-LINED SALAMANDER
AAAAD05290	CAUDATA	PLETHODONTIDAE	EURYCEA GUTTOLINEATA	THREE-LINED SALAMANDER
AAAAD06020	CAUDATA	PLETHODONTIDAE	GYRINOPHILUS PORPHYRITICUS	SPRING SALAMANDER
AAAAD08010	CAUDATA	PLETHODONTIDAE	HEMIDACTYLUM SCUTATUM	FOUR-TOED SALAMANDER
AAAAD10010	CAUDATA	PLETHODONTIDAE	LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER
AAAAD12020	CAUDATA	PLETHODONTIDAE	PLETHODON CINEREUS	REDBACK SALAMANDER
AAAAD12070	CAUDATA	PLETHODONTIDAE	PLETHODON GLUTINOSUS	SLIMY SALAMANDER
AAAAD12090	CAUDATA	PLETHODONTIDAE	PLETHODON JORDANI	JORDAN'S SALAMANDER
AAAAD12150	CAUDATA	PLETHODONTIDAE	PLETHODON RICHMONDI	RAVINE SALAMANDER
AAAAD12160	CAUDATA	PLETHODONTIDAE	PLETHODON SERRATUS	SOUTHERN REDBACK SALAMANDER

EiCode	Order	Family	Scientific Name	Common Name
AAAAD12220	CAUDATA	PLETHODONTIDAE	PLETHODON WEHRLEI	WEHRLE'S SALAMANDER
AAAAD12230	CAUDATA	PLETHODONTIDAE	PLETHODON WELLERI	WELLER'S SALAMANDER
AAAAD12240	CAUDATA	PLETHODONTIDAE	PLETHODON YONAHLOSSEE	YONAHLOSSEE SALAMANDER
AAAAD12250	CAUDATA	PLETHODONTIDAE	PLETHODON AUREOLUS	TELLICO SALAMANDER
AAAAD12300	CAUDATA	PLETHODONTIDAE	PLETHODON TEYAHALEE	SOUTHERN APPALACHIAN SALAMANDER
AAAAD12370	CAUDATA	PLETHODONTIDAE	PLETHODON VENTRALIS	SOUTHERN ZIGZAG SALAMANDER
AAAAD13010	CAUDATA	PLETHODONTIDAE	PSEUDOTRITON MONTANUS	MUD SALAMANDER
AAAAD13020	CAUDATA	PLETHODONTIDAE	PSEUDOTRITON RUBER	RED SALAMANDER
AAAAD14010	CAUDATA	PLETHODONTIDAE	STEREOCHILUS MARGINATUS	MANY-LINED SALAMANDER
AAAAE01030	CAUDATA	PROTEIDAE	NECTURUS LEWISI	NEUSE RIVER WATERDOG
AAAAE01040	CAUDATA	PROTEIDAE	NECTURUS MACULOSUS	MUDPUPPY
AAAAE01050	CAUDATA	PROTEIDAE	NECTURUS PUNCTATUS	DWARF WATERDOG
AAAAF01030	CAUDATA	SALAMANDRIDAE	NOTOPHTHALMUS VIRIDESCENS	EASTERN NEWT
AAAAG02010	CAUDATA	SIRENIDAE	SIREN INTERMEDIA	LESSER SIREN
AAAAG02020	CAUDATA	SIRENIDAE	SIREN LACERTINA	GREATER SIREN
AAABB01020	ANURA	BUFONIDAE	BUFO AMERICANUS	AMERICAN TOAD
AAABB01130	ANURA	BUFONIDAE	BUFO QUERCICUS	OAK TOAD
AAABB01160	ANURA	BUFONIDAE	BUFO TERRESTRIS	SOUTHERN TOAD
AAABB01210	ANURA	BUFONIDAE	BUFO FOWLERI	FOWLER'S TOAD
AAABC01010	ANURA	HYLIDAE	ACRIS CREPITANS	NORTHERN CRICKET FROG
AAABC01020	ANURA	HYLIDAE	ACRIS GRYLLUS	SOUTHERN CRICKET FROG
AAABC02010	ANURA	HYLIDAE	HYLA ANDERSONII	PINE BARRENS TREEFROG
AAABC02050	ANURA	HYLIDAE	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG
AAABC02060	ANURA	HYLIDAE	HYLA CINEREA	GREEN TREEFROG
AAABC02090	ANURA	HYLIDAE	HYLA FEMORALIS	PINE WOODS TREEFROG
AAABC02100	ANURA	HYLIDAE	HYLA GRATIOSA	BARKING TREEFROG
AAABC02120	ANURA	HYLIDAE	HYLA SQUIRELLA	SQUIRREL TREEFROG
AAABC02130	ANURA	HYLIDAE	HYLA VERSICOLOR	GRAY TREEFROG
AAABC05020	ANURA	HYLIDAE	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG
AAABC05040	ANURA	HYLIDAE	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG
AAABC05050	ANURA	HYLIDAE	PSEUDACRIS ORNATA	ORNATE CHORUS FROG
AAABC05070	ANURA	HYLIDAE	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG
AAABC05090	ANURA	HYLIDAE	PSEUDACRIS CRUCIFER	SPRING PEEPER
AAABC05110	ANURA	HYLIDAE	PSEUDACRIS OCULARIS	LITTLE GRASS FROG
AAABE01010	ANURA	MICROHYLIDAE	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD

EiCode	Order	Family	Scientific Name	Common Name
AAABF01040	ANURA	PELOBATIDAE	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT
AAABH01070	ANURA	RANIDAE	RANA CATESBEIANA	BULLFROG
AAABH01090	ANURA	RANIDAE	RANA CLAMITANS	GREEN FROG
AAABH01160	ANURA	RANIDAE	RANA PALUSTRIS	PICKEREL FROG
AAABH01200	ANURA	RANIDAE	RANA SYLVATICA	WOOD FROG
AAABH01220	ANURA	RANIDAE	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG
AAABH01230	ANURA	RANIDAE	RANA VIRGATIPES	CARPENTER FROG
AAABH01270	ANURA	RANIDAE	RANA CAPITO	GOPHER FROG
ABNCA02010	PODICIPEDIFORMES	PODICIPEDIDAE	PODILYMBUS PODICEPS	PIED-BILLED GREBE
ABNFC01020	PELECANIFORMES	PELECANIDAE	PELECANUS OCCIDENTALIS	BROWN PELICAN
ABNFD01020	PELECANIFORMES	PHALACROCORACIDAE	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT
ABNFE01010	PELECANIFORMES	ANHINGIDAE	ANHINGA ANHINGA	ANHINGA
ABNGA01020	CICONIIFORMES	ARDEIDAE	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN
ABNGA02010	CICONIIFORMES	ARDEIDAE	IXOBRYCHUS EXILIS	LEAST BITTERN
ABNGA04010	CICONIIFORMES	ARDEIDAE	ARDEA HERODIAS	GREAT BLUE HERON
ABNGA04040	CICONIIFORMES	ARDEIDAE	ARDEA ALBA	GREAT EGRET
ABNGA06030	CICONIIFORMES	ARDEIDAE	EGRETTA THULA	SNOWY EGRET
ABNGA06040	CICONIIFORMES	ARDEIDAE	EGRETTA CAERULEA	LITTLE BLUE HERON
ABNGA06050	CICONIIFORMES	ARDEIDAE	EGRETTA TRICOLOR	TRICOLORED HERON
ABNGA07010	CICONIIFORMES	ARDEIDAE	BUBULCUS IBIS	CATTLE EGRET
ABNGA08010	CICONIIFORMES	ARDEIDAE	BUTORIDES VIRESCENS	GREEN HERON
ABNGA11010	CICONIIFORMES	ARDEIDAE	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON
ABNGA13010	CICONIIFORMES	ARDEIDAE	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON
ABNGE01010	CICONIIFORMES	THRESKIORNITHIDAE	EUDOCIMUS ALBUS	WHITE IBIS
ABNGE02010	CICONIIFORMES	THRESKIORNITHIDAE	PLEGADIS FALCINELLUS	GLOSSY IBIS
ABNJB05030	ANSERIFORMES	ANATIDAE	BRANTA CANADENSIS	CANADA GOOSE
ABNJB09010	ANSERIFORMES	ANATIDAE	AIX SPONSA	WOOD DUCK
ABNJB10040	ANSERIFORMES	ANATIDAE	ANAS RUBRIPES	AMERICAN BLACK DUCK
ABNJB10060	ANSERIFORMES	ANATIDAE	ANAS PLATYRHYNCHOS	MALLARD
ABNJB10130	ANSERIFORMES	ANATIDAE	ANAS DISCORS	BLUE-WINGED TEAL
ABNJB10160	ANSERIFORMES	ANATIDAE	ANAS STREPERA	GADWALL
ABNJB20010	ANSERIFORMES	ANATIDAE	LOPHODYTES CUCULLATUS	HOODED MERGANSER
ABNKA01010	FALCONIFORMES	CATHARTIDAE	CORAGYPS ATRATUS	BLACK VULTURE
ABNKA02010	FALCONIFORMES	CATHARTIDAE	CATHARTES AURA	TURKEY VULTURE
ABNKC01010	FALCONIFORMES	ACCIPITRIDAE	PANDION HALIAETUS	OSPREY

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ABNKC09010	FALCONIFORMES	ACCIPITRIDAE	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE
ABNKC10010	FALCONIFORMES	ACCIPITRIDAE	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
ABNKC11010	FALCONIFORMES	ACCIPITRIDAE	CIRCUS CYANEUS	NORTHERN HARRIER
ABNKC12020	FALCONIFORMES	ACCIPITRIDAE	ACCIPITER STRIATUS	SHARP-SHINNED HAWK
ABNKC12040	FALCONIFORMES	ACCIPITRIDAE	ACCIPITER COOPERII	COOPER'S HAWK
ABNKC19030	FALCONIFORMES	ACCIPITRIDAE	BUTEO LINEATUS	RED-SHOULDERED HAWK
ABNKC19050	FALCONIFORMES	ACCIPITRIDAE	BUTEO PLATYPTERUS	BROAD-WINGED HAWK
ABNKC19110	FALCONIFORMES	ACCIPITRIDAE	BUTEO JAMAICENSIS	RED-TAILED HAWK
ABNKD06020	FALCONIFORMES	FALCONIDAE	FALCO SPARVERIUS	AMERICAN KESTREL
ABNKD06070	FALCONIFORMES	FALCONIDAE	FALCO PEREGRINUS	PEREGRINE FALCON
ABNLC07010	GALLIFORMES	PHASIANIDAE	PHASIANUS COLCHICUS	RING-NECKED PHEASANT
ABNLC11010	GALLIFORMES	PHASIANIDAE	BONASA UMBELLUS	RUFFED GROUSE
ABNLC14010	GALLIFORMES	PHASIANIDAE	MELEAGRIS GALLOPAVO	WILD TURKEY
ABNLC21020	GALLIFORMES	ODONTOPHORIDAE	COLINUS VIRGINIANUS	NORTHERN BOBWHITE
ABNME03040	GRUIFORMES	RALLIDAE	LATERALLUS JAMAICENSIS	BLACK RAIL
ABNME05010	GRUIFORMES	RALLIDAE	RALLUS LONGIROSTRIS	CLAPPER RAIL
ABNME05020	GRUIFORMES	RALLIDAE	RALLUS ELEGANS	KING RAIL
ABNME05030	GRUIFORMES	RALLIDAE	RALLUS LIMICOLA	VIRGINIA RAIL
ABNME13010	GRUIFORMES	RALLIDAE	GALLINULA CHLOROPUS	COMMON MOORHEN
ABNME14020	GRUIFORMES	RALLIDAE	FULICA AMERICANA	AMERICAN COOT
ABNNB03040	CHARADRIIFORMES	CHARADRIIDAE	CHARADRIUS WILSONIA	WILSON'S PLOVER
ABNNB03070	CHARADRIIFORMES	CHARADRIIDAE	CHARADRIUS MELODUS	PIPING PLOVER
ABNNB03090	CHARADRIIFORMES	CHARADRIIDAE	CHARADRIUS VOCIFERUS	KILLDEER
ABNNC01010	CHARADRIIFORMES	HAEMATOPODIDAE	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER
ABNND01010	CHARADRIIFORMES	RECURVIROSTRIDAE	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT
ABNNF02010	CHARADRIIFORMES	SCOLOPACIDAE	CATOPTROPHORUS SEMIPALMATUS	WILLET
ABNNF19020	CHARADRIIFORMES	SCOLOPACIDAE	SCOLOPAX MINOR	AMERICAN WOODCOCK
ABNNM03010	CHARADRIIFORMES	LARIDAE	LARUS ATRICILLA	LAUGHING GULL
ABNNM03120	CHARADRIIFORMES	LARIDAE	LARUS ARGENTATUS	HERRING GULL
ABNNM03210	CHARADRIIFORMES	LARIDAE	LARUS MARINUS	GREAT BLACK-BACKED GULL
ABNNM08010	CHARADRIIFORMES	LARIDAE	STERNA NILOTICA	GULL-BILLED TERN
ABNNM08020	CHARADRIIFORMES	LARIDAE	STERNA CASPIA	CASPIAN TERN
ABNNM08030	CHARADRIIFORMES	LARIDAE	STERNA MAXIMA	ROYAL TERN
ABNNM08050	CHARADRIIFORMES	LARIDAE	STERNA SANDVICENSIS	SANDWICH TERN
ABNNM08070	CHARADRIIFORMES	LARIDAE	STERNA HIRUNDO	COMMON TERN

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ABNNM08090	CHARADRIIFORMES	LARIDAE	STERNA FORSTERI	FORSTER'S TERN
ABNNM08100	CHARADRIIFORMES	LARIDAE	STERNA ANTILLARUM	LEAST TERN
ABNNM08150	CHARADRIIFORMES	LARIDAE	STERNA FUSCATA	SOOTY TERN
ABNNM14010	CHARADRIIFORMES	LARIDAE	RYNCHOPS NIGER	BLACK SKIMMER
ABNPB01010	COLUMBIFORMES	COLUMBIDAE	COLUMBA LIVIA	ROCK DOVE
ABNPB04040	COLUMBIFORMES	COLUMBIDAE	ZENaida MACROURA	MOURNING DOVE
ABNRB02010	CUCULIFORMES	CUCULIDAE	COCCYZUS ERYTHROPHALMUS	BLACK-BILLED CUCKOO
ABNRB02020	CUCULIFORMES	CUCULIDAE	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO
ABNSA01010	STRIGIFORMES	TYTONIDAE	TYTO ALBA	BARN OWL
ABNSB01030	STRIGIFORMES	STRIGIDAE	OTUS ASIO	EASTERN SCREECH-OWL
ABNSB05010	STRIGIFORMES	STRIGIDAE	BUBO VIRGINIANUS	GREAT HORNED OWL
ABNSB12020	STRIGIFORMES	STRIGIDAE	STRIX VARIA	BARRED OWL
ABNSB15020	STRIGIFORMES	STRIGIDAE	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL
ABNTA02020	CAPRIMULGIFORMES	CAPRIMULGIDAE	CHORDEILES MINOR	COMMON NIGHTHAWK
ABNTA07010	CAPRIMULGIFORMES	CAPRIMULGIDAE	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW
ABNTA07070	CAPRIMULGIFORMES	CAPRIMULGIDAE	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL
ABNUA03010	APODIFORMES	APODIDAE	CHAETURA PELAGICA	CHIMNEY SWIFT
ABNUC45010	APODIFORMES	TROCHILIDAE	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD
ABNXD01020	CORACIIFORMES	ALCEDINIDAE	CERYLE ALCYON	BELTED KINGFISHER
ABNYF04040	PICIFORMES	PICIDAE	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER
ABNYF04170	PICIFORMES	PICIDAE	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER
ABNYF05010	PICIFORMES	PICIDAE	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER
ABNYF07030	PICIFORMES	PICIDAE	PICOIDES PUBESCENS	DOWNY WOODPECKER
ABNYF07040	PICIFORMES	PICIDAE	PICOIDES VILLOSUS	HAIRY WOODPECKER
ABNYF07060	PICIFORMES	PICIDAE	PICOIDES BOREALIS	RED-COCKADED WOODPECKER
ABNYF10020	PICIFORMES	PICIDAE	COLAPTES AURATUS	NORTHERN FLICKER
ABNYF12020	PICIFORMES	PICIDAE	DRYOCOPUS PILEATUS	PILEATED WOODPECKER
ABPAE32060	PASSERIFORMES	TYRANNIDAE	CONTOPUS VIRENS	EASTERN WOOD-PEWEE
ABPAE33020	PASSERIFORMES	TYRANNIDAE	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER
ABPAE33030	PASSERIFORMES	TYRANNIDAE	EMPIDONAX ALNORUM	ALDER FLYCATCHER
ABPAE33040	PASSERIFORMES	TYRANNIDAE	EMPIDONAX TRAILLII	WILLOW FLYCATCHER
ABPAE33070	PASSERIFORMES	TYRANNIDAE	EMPIDONAX MINIMUS	LEAST FLYCATCHER
ABPAE35020	PASSERIFORMES	TYRANNIDAE	SAYORNIS PHOEBE	EASTERN PHOEBE
ABPAE43070	PASSERIFORMES	TYRANNIDAE	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER
ABPAE52060	PASSERIFORMES	TYRANNIDAE	TYRANNUS TYRANNUS	EASTERN KINGBIRD

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ABPAT02010	PASSERIFORMES	ALAUDIDAE	EREMOPHILA ALPESTRIS	HORNED LARK
ABPAU01010	PASSERIFORMES	HIRUNDINIDAE	PROGNE SUBIS	PURPLE MARTIN
ABPAU03010	PASSERIFORMES	HIRUNDINIDAE	TACHYCINETA BICOLOR	TREE SWALLOW
ABPAU07010	PASSERIFORMES	HIRUNDINIDAE	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW
ABPAU09010	PASSERIFORMES	HIRUNDINIDAE	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW
ABPAU09030	PASSERIFORMES	HIRUNDINIDAE	HIRUNDO RUSTICA	BARN SWALLOW
ABPAV02020	PASSERIFORMES	CORVIDAE	CYANOCITTA CRISTATA	BLUE JAY
ABPAV10010	PASSERIFORMES	CORVIDAE	CORVUS BRACHYRHYNCHOS	AMERICAN CROW
ABPAV10080	PASSERIFORMES	CORVIDAE	CORVUS OSSIFRAGUS	FISH CROW
ABPAV10110	PASSERIFORMES	CORVIDAE	CORVUS CORAX	COMMON RAVEN
ABPAW01010	PASSERIFORMES	PARIDAE	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE
ABPAW01020	PASSERIFORMES	PARIDAE	POECILE CAROLINENSIS	CAROLINA CHICKADEE
ABPAW01110	PASSERIFORMES	PARIDAE	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE
ABPAZ01010	PASSERIFORMES	SITTIDAE	SITTA CANADENSIS	RED-BREASTED NUTHATCH
ABPAZ01020	PASSERIFORMES	SITTIDAE	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH
ABPAZ01040	PASSERIFORMES	SITTIDAE	SITTA PUSILLA	BROWN-HEADED NUTHATCH
ABPBA01010	PASSERIFORMES	CERTHIIDAE	CERTHIA AMERICANA	BROWN CREEPER
ABPBG06130	PASSERIFORMES	TROGLODYTIDAE	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN
ABPBG09010	PASSERIFORMES	TROGLODYTIDAE	TROGLODYTES AEDON	HOUSE WREN
ABPBG09050	PASSERIFORMES	TROGLODYTIDAE	TROGLODYTES TROGLODYTES	WINTER WREN
ABPBG10020	PASSERIFORMES	TROGLODYTIDAE	CISTOTHORUS PALUSTRIS	MARSH WREN
ABPBJ05010	PASSERIFORMES	REGULIDAE	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET
ABPBJ08010	PASSERIFORMES	SILVIIDAE	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER
ABPBJ15010	PASSERIFORMES	TURDIDAE	SIALIA SIALIS	EASTERN BLUEBIRD
ABPBJ18080	PASSERIFORMES	TURDIDAE	CATHARUS FUSCESCENS	VEERY
ABPBJ18110	PASSERIFORMES	TURDIDAE	CATHARUS GUTTATUS	HERMIT THRUSH
ABPBJ19010	PASSERIFORMES	TURDIDAE	HYLOCICHLA MUSTELINA	WOOD THRUSH
ABPBJ20170	PASSERIFORMES	TURDIDAE	TURDUS MIGRATORIUS	AMERICAN ROBIN
ABPBK01010	PASSERIFORMES	MIMIDAE	DUMETELLA CAROLINENSIS	GRAY CATBIRD
ABPBK03010	PASSERIFORMES	MIMIDAE	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD
ABPBK06010	PASSERIFORMES	MIMIDAE	TOXOSTOMA RUFUM	BROWN THRASHER
ABPBN01020	PASSERIFORMES	BOMBYCILLIDAE	BOMBYCILLA CEDRORUM	CEDAR WAXWING
ABPBR01030	PASSERIFORMES	LANIIDAE	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE
ABPBT01010	PASSERIFORMES	STURNIDAE	STURNUS VULGARIS	EUROPEAN STARLING
ABPBW01020	PASSERIFORMES	VIREONIDAE	VIREO GRISEUS	WHITE-EYED VIREO

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ABPBW01160	PASSERIFORMES	VIREONIDAE	VIREO SOLITARIUS	BLUE-HEADED VIREO
ABPBW01170	PASSERIFORMES	VIREONIDAE	VIREO FLAVIFRONS	YELLOW-THROATED VIREO
ABPBW01210	PASSERIFORMES	VIREONIDAE	VIREO GILVUS	WARBLING VIREO
ABPBW01240	PASSERIFORMES	VIREONIDAE	VIREO OLIVACEUS	RED-EYED VIREO
ABPBX01020	PASSERIFORMES	PARULIDAE	VERMIVORA PINUS	BLUE-WINGED WARBLER
ABPBX01030	PASSERIFORMES	PARULIDAE	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER
ABPBX02010	PASSERIFORMES	PARULIDAE	PARULA AMERICANA	NORTHERN PARULA
ABPBX03010	PASSERIFORMES	PARULIDAE	DENDROICA PETECHIA	YELLOW WARBLER
ABPBX03020	PASSERIFORMES	PARULIDAE	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER
ABPBX03050	PASSERIFORMES	PARULIDAE	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER
ABPBX03100	PASSERIFORMES	PARULIDAE	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER
ABPBX03120	PASSERIFORMES	PARULIDAE	DENDROICA FUSCA	BLACKBURNIAN WARBLER
ABPBX03130	PASSERIFORMES	PARULIDAE	DENDROICA DOMINICA	YELLOW-THROATED WARBLER
ABPBX03170	PASSERIFORMES	PARULIDAE	DENDROICA PINUS	PINE WARBLER
ABPBX03190	PASSERIFORMES	PARULIDAE	DENDROICA DISCOLOR	PRAIRIE WARBLER
ABPBX03240	PASSERIFORMES	PARULIDAE	DENDROICA CERULEA	CERULEAN WARBLER
ABPBX05010	PASSERIFORMES	PARULIDAE	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER
ABPBX06010	PASSERIFORMES	PARULIDAE	SETOPHAGA RUTICILLA	AMERICAN REDSTART
ABPBX07010	PASSERIFORMES	PARULIDAE	PROTONOTARIA CITREA	PROTHONOTARY WARBLER
ABPBX08010	PASSERIFORMES	PARULIDAE	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER
ABPBX09010	PASSERIFORMES	PARULIDAE	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER
ABPBX10010	PASSERIFORMES	PARULIDAE	SEIURUS AUROCAPILLUS	OVENBIRD
ABPBX10030	PASSERIFORMES	PARULIDAE	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH
ABPBX11010	PASSERIFORMES	PARULIDAE	OPORORNIS FORMOSUS	KENTUCKY WARBLER
ABPBX12010	PASSERIFORMES	PARULIDAE	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT
ABPBX16010	PASSERIFORMES	PARULIDAE	WILSONIA CITRINA	HOODED WARBLER
ABPBX16030	PASSERIFORMES	PARULIDAE	WILSONIA CANADENSIS	CANADA WARBLER
ABPBX24010	PASSERIFORMES	PARULIDAE	ICTERIA VIRENS	YELLOW-BREASTED CHAT
ABPBX45030	PASSERIFORMES	THRAUPIDAE	PIRANGA RUBRA	SUMMER TANAGER
ABPBX45040	PASSERIFORMES	THRAUPIDAE	PIRANGA OLIVACEA	SCARLET TANAGER
ABPBX60010	PASSERIFORMES	CARDINALIDAE	CARDINALIS CARDINALIS	NORTHERN CARDINAL
ABPBX61030	PASSERIFORMES	CARDINALIDAE	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK
ABPBX63010	PASSERIFORMES	CARDINALIDAE	GUIRACA CAERULEA	BLUE GROSBEAK
ABPBX64030	PASSERIFORMES	CARDINALIDAE	PASSERINA CYANEA	INDIGO BUNTING
ABPBX64060	PASSERIFORMES	CARDINALIDAE	PASSERINA CIRIS	PAINTED BUNTING

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ABPBX65010	PASSERIFORMES	CARDINALIDAE	SPIZA AMERICANA	DICKCISSEL
ABPBX74030	PASSERIFORMES	EMBERIZIDAE	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE
ABPBX91050	PASSERIFORMES	EMBERIZIDAE	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW
ABPBX94020	PASSERIFORMES	EMBERIZIDAE	SPIZELLA PASSERINA	CHIPPING SPARROW
ABPBX94050	PASSERIFORMES	EMBERIZIDAE	SPIZELLA PUSILLA	FIELD SPARROW
ABPBX95010	PASSERIFORMES	EMBERIZIDAE	POOECETES GRAMINEUS	VESPER SPARROW
ABPBX96010	PASSERIFORMES	EMBERIZIDAE	CHONDESTES GRAMMACUS	LARK SPARROW
ABPBX99010	PASSERIFORMES	EMBERIZIDAE	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW
ABPBXA0020	PASSERIFORMES	EMBERIZIDAE	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW
ABPBXA0030	PASSERIFORMES	EMBERIZIDAE	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW
ABPBXA0060	PASSERIFORMES	EMBERIZIDAE	AMMODRAMUS MARITIMUS	SEASIDE SPARROW
ABPBXA3010	PASSERIFORMES	EMBERIZIDAE	MELOSPIZA MELODIA	SONG SPARROW
ABPBXA5020	PASSERIFORMES	EMBERIZIDAE	JUNCO HYEMALIS	DARK-EYED JUNCO
ABPBXA9010	PASSERIFORMES	ICTERIDAE	DOLICHONYX ORYZIVORUS	BOBOLINK
ABPBXB0010	PASSERIFORMES	ICTERIDAE	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD
ABPBXB2020	PASSERIFORMES	ICTERIDAE	STURNELLA MAGNA	EASTERN MEADOWLARK
ABPBXB6060	PASSERIFORMES	ICTERIDAE	QUISCALUS MAJOR	BOAT-TAILED GRACKLE
ABPBXB6070	PASSERIFORMES	ICTERIDAE	QUISCALUS QUISCULA	COMMON GRACKLE
ABPBXB7030	PASSERIFORMES	ICTERIDAE	MOLOTHRUS ATER	BROWN-HEADED COWBIRD
ABPBXB9070	PASSERIFORMES	ICTERIDAE	ICTERUS SPURIUS	ORCHARD ORIOLE
ABPBXB9190	PASSERIFORMES	ICTERIDAE	ICTERUS GALBULA	BALTIMORE ORIOLE
ABPBY04040	PASSERIFORMES	FRINGILLIDAE	CARPODACUS MEXICANUS	HOUSE FINCH
ABPBY05010	PASSERIFORMES	FRINGILLIDAE	LOXIA CURVIROSTRA	RED CROSSBILL
ABPBY06030	PASSERIFORMES	FRINGILLIDAE	CARDUELIS PINUS	PINE SISKIN
ABPBY06110	PASSERIFORMES	FRINGILLIDAE	CARDUELIS TRISTIS	AMERICAN GOLDFINCH
ABPBZ01010	PASSERIFORMES	PASSERIDAE	PASSER DOMESTICUS	HOUSE SPARROW
AMAAA01010	DIDELPHIMORPHIA	DIDELPHIDAE	DIDELPHIS VIRGINIANA	VIRGINIA OPOSSUM
AMABA01010	INSECTIVORA	SORICIDAE	SOREX CINEREUS	MASKED SHREW
AMABA01060	INSECTIVORA	SORICIDAE	SOREX LONGIROSTRIS	SOUTHEASTERN SHREW
AMABA01150	INSECTIVORA	SORICIDAE	SOREX PALUSTRIS	WATER SHREW
AMABA01180	INSECTIVORA	SORICIDAE	SOREX FUMEUS	SMOKY SHREW
AMABA01210	INSECTIVORA	SORICIDAE	SOREX DISPAR	LONG-TAILED SHREW
AMABA01250	INSECTIVORA	SORICIDAE	SOREX HOYI	PYGMY SHREW
AMABA03010	INSECTIVORA	SORICIDAE	BLARINA BREVICAUDA	NORTHERN SHORT-TAILED SHREW
AMABA03020	INSECTIVORA	SORICIDAE	BLARINA CAROLINENSIS	SOUTHERN SHORT-TAILED SHREW

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AMABA04010	INSECTIVORA	SORICIDAE	CRYPTOTIS PARVA	LEAST SHREW
AMABB03010	INSECTIVORA	TALPIDAE	PARASCALOPS BREWERI	HAIRY-TAILED MOLE
AMABB04010	INSECTIVORA	TALPIDAE	SCALOPUS AQUATICUS	EASTERN MOLE
AMABB05010	INSECTIVORA	TALPIDAE	CONDYLURA CRISTATA	STAR-NOSED MOLE
AMACC01010	CHIROPTERA	VESPERTILIONIDAE	MYOTIS LUCIFUGUS	LITTLE BROWN BAT
AMACC01030	CHIROPTERA	VESPERTILIONIDAE	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN BAT
AMACC01100	CHIROPTERA	VESPERTILIONIDAE	MYOTIS SODALIS	INDIANA BAT
AMACC01130	CHIROPTERA	VESPERTILIONIDAE	MYOTIS LEIBII	EASTERN SMALL-FOOTED BAT
AMACC01150	CHIROPTERA	VESPERTILIONIDAE	MYOTIS SEPTENTRIONALIS	NORTHERN BAT
AMACC03020	CHIROPTERA	VESPERTILIONIDAE	PIPISTRELLUS SUBFLAVUS	EASTERN PIPISTRELLE
AMACC04010	CHIROPTERA	VESPERTILIONIDAE	EPTESICUS FUSCUS	BIG BROWN BAT
AMACC05010	CHIROPTERA	VESPERTILIONIDAE	LASIURUS BOREALIS	EASTERN RED BAT
AMACC05020	CHIROPTERA	VESPERTILIONIDAE	LASIURUS SEMINOLUS	SEMINOLE BAT
AMACC06010	CHIROPTERA	VESPERTILIONIDAE	NYCTICEIUS HUMERALIS	EVENING BAT
AMACC08010	CHIROPTERA	VESPERTILIONIDAE	CORYNORHINUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT
AMACC08020	CHIROPTERA	VESPERTILIONIDAE	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
AMACD01010	CHIROPTERA	MOLOSSIDAE	TADARIDA BRASILIENSIS	BRAZILIAN FREE-TAILED BAT
AMAEB01030	LAGOMORPHA	LEPORIDAE	SYLVILAGUS PALUSTRIS	MARSH RABBIT
AMAEB01040	LAGOMORPHA	LEPORIDAE	SYLVILAGUS FLORIDANUS	EASTERN COTTONTAIL
AMAEB01090	LAGOMORPHA	LEPORIDAE	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL
AMAFB02230	RODENTIA	SCIURIDAE	TAMIAS STRIATUS	EASTERN CHIPMUNK
AMAFB03010	RODENTIA	SCIURIDAE	MARMOTA MONAX	WOODCHUCK
AMAFB07010	RODENTIA	SCIURIDAE	SCIURUS CAROLINENSIS	EASTERN GRAY SQUIRREL
AMAFB07040	RODENTIA	SCIURIDAE	SCIURUS NIGER	EASTERN FOX SQUIRREL
AMAFB08010	RODENTIA	SCIURIDAE	TAMIASCIURUS HUDSONICUS	RED SQUIRREL
AMAFB09010	RODENTIA	SCIURIDAE	GLAUCOMYS VOLANS	SOUTHERN FLYING SQUIRREL
AMAFB09020	RODENTIA	SCIURIDAE	GLAUCOMYS SABRINUS	NORTHERN FLYING SQUIRREL
AMAFE01010	RODENTIA	CASTORIDAE	CASTOR CANADENSIS	AMERICAN BEAVER
AMAFF01010	RODENTIA	MURIDAE	ORYZOMYS PALUSTRIS	MARSH RICE RAT
AMAFF02020	RODENTIA	MURIDAE	REITHRODONTOMYS HUMULIS	EASTERN HARVEST MOUSE
AMAFF03040	RODENTIA	MURIDAE	PEROMYSCUS MANICULATUS	COMMON DEER MOUSE
AMAFF03060	RODENTIA	MURIDAE	PEROMYSCUS POLIONOTUS	OLDFIELD MOUSE
AMAFF03070	RODENTIA	MURIDAE	PEROMYSCUS LEUCOPUS	WHITE-FOOTED MOUSE
AMAFF03080	RODENTIA	MURIDAE	PEROMYSCUS GOSSYPINUS	COTTON MOUSE
AMAFF04010	RODENTIA	MURIDAE	OCHROTOMYS NUTTALLI	GOLDEN MOUSE

EiCode	Order	Family	Scientific Name	Common Name
AMAFF07010	RODENTIA	MURIDAE	SIGMODON HISPIDUS	HISPID COTTON RAT
AMAFF08010	RODENTIA	MURIDAE	NEOTOMA FLORIDANA	EASTERN WOODRAT
AMAFF08100	RODENTIA	MURIDAE	NEOTOMA MAGISTER	ALLEGHENY WOODRAT
AMAFF09020	RODENTIA	MURIDAE	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE
AMAFF11010	RODENTIA	MURIDAE	MICROTUS PENNSYLVANICUS	MEADOW VOLE
AMAFF11090	RODENTIA	MURIDAE	MICROTUS CHROTORRHINUS	ROCK VOLE
AMAFF11150	RODENTIA	MURIDAE	MICROTUS PINETORUM	WOODLAND VOLE
AMAFF15010	RODENTIA	MURIDAE	ONDATRA ZIBETHICUS	MUSKRAT
AMAFF17010	RODENTIA	MURIDAE	SYNAPTOMYS COOPERI	SOUTHERN BOG LEMMING
AMAFF21010	RODENTIA	MURIDAE	RATTUS RATTUS	BLACK RAT
AMAFF21020	RODENTIA	MURIDAE	RATTUS NORVEGICUS	NORWAY RAT
AMAFF22010	RODENTIA	MURIDAE	MUS MUSCULUS	HOUSE MOUSE
AMAFH01010	RODENTIA	DIPODIDAE	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE
AMAFH02010	RODENTIA	DIPODIDAE	NAPAEZAPUS INSIGNIS	WOODLAND JUMPING MOUSE
AMAFK01010	RODENTIA	MYOCASTORIDAE	MYOCASTOR COYPUS	NUTRIA
AMAJA01010	CARNIVORA	CANIDAE	CANIS LATRANS	COYOTE
AMAJA01020	CARNIVORA	CANIDAE	CANIS RUFUS	RED WOLF
AMAJA03010	CARNIVORA	CANIDAE	VULPES VULPES	RED FOX
AMAJA04010	CARNIVORA	CANIDAE	UROCYON CINEREOARGENTEUS	COMMON GRAY FOX
AMAJB01010	CARNIVORA	URSIDAE	URSUS AMERICANUS	BLACK BEAR
AMAJE02010	CARNIVORA	PROCYONIDAE	PROCYON LOTOR	COMMON RACCOON
AMAJF02020	CARNIVORA	MUSTELIDAE	MUSTELA NIVALIS	LEAST WEASEL
AMAJF02030	CARNIVORA	MUSTELIDAE	MUSTELA FRENATA	LONG-TAILED WEASEL
AMAJF02050	CARNIVORA	MUSTELIDAE	MUSTELA VISON	MINK
AMAJF05010	CARNIVORA	MUSTELIDAE	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK
AMAJF06010	CARNIVORA	MUSTELIDAE	MEPHITIS MEPHITIS	STRIPED SKUNK
AMAJF08010	CARNIVORA	MUSTELIDAE	LUTRA CANADENSIS	NORTHERN RIVER OTTER
AMAJH03020	CARNIVORA	FELIDAE	LYNX RUFUS	BOBCAT
AMALA01010	ARTIODACTYLA	SUIDAE	SUS SCROFA	FERAL PIG
AMALC02020	ARTIODACTYLA	CERVIDAE	ODOCOILEUS VIRGINIANUS	WHITE-TAILED DEER
AMATA01010	PERISSODACTYLA	EQUIDAE	EQUUS CABALLUS	FERAL HORSE
ARAAA01010	TESTUDINES	CHELONIIDAE	CARETTA CARETTA	LOGGERHEAD
ARAAA02010	TESTUDINES	CHELONIIDAE	CHELONIA MYDAS	GREEN TURTLE
ARAAA04010	TESTUDINES	CHELONIIDAE	LEPIDOCHELYS KEMPII	ATLANTIC RIDLEY
ARAAB01010	TESTUDINES	CHELYDRIDAE	CHELYDRA SERPENTINA	SNAPPING TURTLE

ElCode	Order	Family	Scientific Name	Common Name
ARAAC01010	TESTUDINES	DERMOCHELYIDAE	DERMOCHELYS CORIACEA	LEATHERBACK
ARAAD01010	TESTUDINES	EMYDIDAE	CHRYSEMYS PICTA	PAINTED TURTLE
ARAAD02010	TESTUDINES	EMYDIDAE	CLEMMYS GUTTATA	SPOTTED TURTLE
ARAAD02040	TESTUDINES	EMYDIDAE	CLEMMYS MUHLENBERGII	BOG TURTLE
ARAAD03010	TESTUDINES	EMYDIDAE	DEIROCHELYS RETICULARIA	CHICKEN TURTLE
ARAAD06010	TESTUDINES	EMYDIDAE	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN
ARAAD07020	TESTUDINES	EMYDIDAE	PSEUDEMYS CONCINNA	RIVER COOTER
ARAAD07030	TESTUDINES	EMYDIDAE	PSEUDEMYS FLORIDANA	FLORIDA COOTER
ARAAD07050	TESTUDINES	EMYDIDAE	PSEUDEMYS RUBRIVENTRIS	REDBELLY TURTLE
ARAAD08010	TESTUDINES	EMYDIDAE	TERRAPENE CAROLINA	EASTERN BOX TURTLE
ARAAD09010	TESTUDINES	EMYDIDAE	TRACHEMYS SCRIPTA	YELLOWBELLY SLIDER
ARAAE01010	TESTUDINES	KINOSTERNIDAE	KINOSTERNON BAURII	STRIPED MUD TURTLE
ARAAE01050	TESTUDINES	KINOSTERNIDAE	KINOSTERNON SUBRUBRUM	EASTERN MUD TURTLE
ARAAE02030	TESTUDINES	KINOSTERNIDAE	STERNOTHERUS MINOR	LOGGERHEAD MUSK TURTLE
ARAAE02040	TESTUDINES	KINOSTERNIDAE	STERNOTHERUS ODORATUS	COMMON MUSK TURTLE
ARAAG01030	TESTUDINES	TRIONYCHIDAE	APALONE SPINIFERA	SPINY SOFTSHELL
ARABA01010	CROCODYLIA	ALLIGATORIDAE	ALLIGATOR MISSISSIPPIENSIS	AMERICAN ALLIGATOR
ARACB02010	SQUAMATA	ANGUIDAE	OPHISAURUS ATTENUATUS	SLENDER GLASS LIZARD
ARACB02030	SQUAMATA	ANGUIDAE	OPHISAURUS VENTRALIS	EASTERN GLASS LIZARD
ARACB02040	SQUAMATA	ANGUIDAE	OPHISAURUS MIMICUS	MIMIC GLASS LIZARD
ARACF01010	SQUAMATA	POLYCHRIDAE	ANOLIS CAROLINENSIS	GREEN ANOLE
ARACF12010	SQUAMATA	PHRYNOSOMATIDAE	PHRYNOSOMA CORNUTUM	TEXAS HORNED LIZARD
ARACF14130	SQUAMATA	PHRYNOSOMATIDAE	SCELOPORUS UNDULATUS	EASTERN FENCE LIZARD
ARACH01010	SQUAMATA	SCINCIDAE	EUMECES ANTHRACINUS	COAL SKINK
ARACH01050	SQUAMATA	SCINCIDAE	EUMECES FASCIATUS	FIVE-LINED SKINK
ARACH01070	SQUAMATA	SCINCIDAE	EUMECES INEXPECTATUS	SOUTHEASTERN FIVE-LINED SKINK
ARACH01080	SQUAMATA	SCINCIDAE	EUMECES LATICEPS	BROADHEAD SKINK
ARACH03010	SQUAMATA	SCINCIDAE	SCINCELLA LATERALIS	GROUND SKINK
ARACJ02110	SQUAMATA	TEIIDAE	CNEMIDOPHORUS SEXLINEATUS	SIX-LINED RACERUNNER
ARADB02010	SQUAMATA	COLUBRIDAE	CARPHOPIUS AMOENUS	WORM SNAKE
ARADB03010	SQUAMATA	COLUBRIDAE	CEMOPHORA COCCINEA	SCARLET SNAKE
ARADB07010	SQUAMATA	COLUBRIDAE	COLUBER CONSTRICTOR	RACER
ARADB10010	SQUAMATA	COLUBRIDAE	DIADOPHIS PUNCTATUS	RINGNECK SNAKE
ARADB13020	SQUAMATA	COLUBRIDAE	ELAPHE GUTTATA	CORN SNAKE
ARADB13030	SQUAMATA	COLUBRIDAE	ELAPHE OBSOLETA	RAT SNAKE

EiCode	Order	Family	Scientific Name	Common Name
ARADB14010	SQUAMATA	COLUBRIDAE	FARANCIA ABACURA	MUD SNAKE
ARADB14020	SQUAMATA	COLUBRIDAE	FARANCIA ERYTROGRAMMA	RAINBOW SNAKE
ARADB17020	SQUAMATA	COLUBRIDAE	HETERODON PLATIRHINOS	EASTERN HOGNOSE SNAKE
ARADB17030	SQUAMATA	COLUBRIDAE	HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE
ARADB19010	SQUAMATA	COLUBRIDAE	LAMPROPELTIS CALLIGASTER	MOLE KINGSNAKE
ARADB19020	SQUAMATA	COLUBRIDAE	LAMPROPELTIS GETULA	COMMON KINGSNAKE
ARADB19050	SQUAMATA	COLUBRIDAE	LAMPROPELTIS TRIANGULUM	MILK SNAKE
ARADB21020	SQUAMATA	COLUBRIDAE	MASTICOPHIS FLAGELLUM	COACHWHIP
ARADB22020	SQUAMATA	COLUBRIDAE	NERODIA ERYTHROGASTER	REDBELLY WATER SNAKE
ARADB22030	SQUAMATA	COLUBRIDAE	NERODIA FASCIATA	BANDED WATER SNAKE
ARADB22060	SQUAMATA	COLUBRIDAE	NERODIA SIPEDON	NORTHERN WATER SNAKE
ARADB22070	SQUAMATA	COLUBRIDAE	NERODIA TAXISPILOTA	BROWN WATER SNAKE
ARADB23010	SQUAMATA	COLUBRIDAE	OPHEODRYS AESTIVUS	ROUGH GREEN SNAKE
ARADB26010	SQUAMATA	COLUBRIDAE	PITUOPHIS MELANOLEUCUS	PINE SNAKE
ARADB27030	SQUAMATA	COLUBRIDAE	REGINA RIGIDA	GLOSSY CRAYFISH SNAKE
ARADB27040	SQUAMATA	COLUBRIDAE	REGINA SEPTEMVITTATA	QUEEN SNAKE
ARADB28010	SQUAMATA	COLUBRIDAE	RHADINAEA FLAVILATA	PINE WOODS SNAKE
ARADB31010	SQUAMATA	COLUBRIDAE	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE
ARADB34010	SQUAMATA	COLUBRIDAE	STORERIA DEKAYI	BROWN SNAKE
ARADB34030	SQUAMATA	COLUBRIDAE	STORERIA OCCIPITOMACULATA	REDBELLY SNAKE
ARADB35020	SQUAMATA	COLUBRIDAE	TANTILLA CORONATA	SOUTHEASTERN CROWNED SNAKE
ARADB36120	SQUAMATA	COLUBRIDAE	THAMNOPHIS SAURITUS	EASTERN RIBBON SNAKE
ARADB36130	SQUAMATA	COLUBRIDAE	THAMNOPHIS SIRTALIS	COMMON GARTER SNAKE
ARADB39010	SQUAMATA	COLUBRIDAE	VIRGINIA STRIATULA	ROUGH EARTH SNAKE
ARADB39020	SQUAMATA	COLUBRIDAE	VIRGINIA VALERIAE	SMOOTH EARTH SNAKE
ARADC02010	SQUAMATA	ELAPIDAE	MICRURUS FULVIUS	EASTERN CORAL SNAKE
ARADE01010	SQUAMATA	VIPERIDAE	AGKISTRODON CONTORTRIX	COPPERHEAD
ARADE01020	SQUAMATA	VIPERIDAE	AGKISTRODON PISCIVORUS	COTTONMOUTH
ARADE02010	SQUAMATA	VIPERIDAE	CROTALUS ADAMANTEUS	EASTERN DIAMONDBACK RATTLESNAKE
ARADE02040	SQUAMATA	VIPERIDAE	CROTALUS HORRIDUS	TIMBER RATTLESNAKE
ARADE03020	SQUAMATA	VIPERIDAE	SISTRURUS MILIARIUS	PIGMY RATTLESNAKE

NORTH CAROLINA VERTEBRATE SPECIES KNOWN RANGE DATA

October 5, 2001

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Introduction

All species range maps are predictions about the occurrence of those species within a particular area (Csuti and Crist 2000). Traditionally, the predicted occurrences of most species begin with samples from collections made at individual point locations. Most species range maps are small-scale (e.g., >1:10,000,000) and derived primarily from point data to construct field guides. The purpose of the GAP vertebrate species maps is to provide more precise information about the current predicted distribution of individual native species within their general ranges. With this information, better estimates can be made about the actual amounts of habitat area and the nature of its configuration.

GAP maps are produced at a nominal scale of 1:100,000 or better, and are intended for applications at the landscape or “gamma” scale (heterogeneous areas generally covering 1,000 to 1,000,000 hectares and made up of more than one kind of natural community). Applications of these data to site- or stand-level analyses (site—a microhabitat, generally 10 to 100 square meters; stand—a single habitat type, generally 0.1 to 1,000 ha; Whittaker 1977, see also Stoms and Estes 1993) are likely to be compromised by the finer-grained patterns of environmental heterogeneity that are resolved at those levels.

Gap analysis uses the predicted distributions of native vertebrate species to evaluate their conservation status relative to existing land management (Scott et al. 1993). However, the maps of vertebrate species distributions may be used to answer a wide variety of management, planning, and research questions relating to individual species or groups of species. In addition to the maps, great utility may be found in the consolidated specimen collection records and literature that are assembled into databases used to produce the maps.

Previous to this effort there were no maps available, digital or otherwise, showing the likely present-day distribution of species by habitat type across their ranges. Because of this, ordinary species (i.e., those not threatened with extinction or not managed as game animals) are generally not given sufficient consideration in land-use decisions in the context of large geographic regions or in relation to their actual habitats. Their decline because of incremental habitat loss can, and does, result in one threatened or endangered species “surprise” after another. Frequently, the records that do exist for an ordinary species are truncated by state boundaries. Simply creating a consistent spatial framework for storing, retrieving, manipulating, analyzing, and updating the totality of our knowledge about the status of each vertebrate species is one of the most necessary and basic elements for preventing further erosion of biological resources.

Vertebrate modeling for the state of North Carolina is progressing in 4 phases: species selection, range mapping, habitat association development, and predicted distribution mapping. This progress report details the work that has been completed to date for the first 2 phases. The remaining 2 phases will be addressed at a later date.

Mapping Standards

We referred to the chapter on vertebrate distribution mapping in the gap analysis handbook (Csuti and Crist 2000) to establish standards for developing a species list and preparing range maps. The goal for the list of species to be mapped was to "include at a minimum those species known to breed in the

project area and that are regularly occurring non-accidentals." The GAP standard unit for mapping range extents was the Environmental Protection Agency's EMAP hexagon (635-km²).

Methods

We began the process by obtaining the Vertebrate Characterization Abstracts (VCA) for the vertebrate species occurring in North Carolina. This dataset included species' common and scientific names, element codes assigned by The Nature Conservancy (TNC), as well as a compilation of information on range, habitat associations, and taxonomy. The VCA data were obtained from the North Carolina Natural Heritage Program (NHP) office in Raleigh, NC on April 21, 1999, and were imported into a Microsoft Access database as a set of tables related by the TNC element codes. Throughout the process, we relied heavily on the VCA data as well as several published volumes (Hamel 1992, LeGrand and Hall 1999, National Geographic Society 1987, Palmer and Braswell 1995, Peterson 1980, Webster et al. 1985, Whitaker and Hamilton 1998, Wilson 1995). Expert review also is an integral element of the process. The names of reviewers who commented on the species list are presented in Appendix 1.

Species Selection

From the list of species in the VCA database, we decided which species to include in predicted distribution models. As a first cut, we excluded species occurring only offshore, and those occurring only as transients or accidentals. We also excluded migratory birds that occur only in the non-breeding season. We chose not to exclude introduced or exotic taxa at this stage, although they will be treated separately from native taxa in models of biodiversity.

Our modified species list was then sent out for expert review in the form of separate check lists for birds, mammals, reptiles, and amphibians. Next to each species' name, reviewers could check off "exclude" or "include". Reviewers also had space to add species names and other pertinent comments. The instructions to reviewers read as follows: "Species to be included in the NC Gap Analysis Project should be ones that are known to breed within the state and that are regularly occurring non-accidentals. Evidence of breeding in five out of the last 10 years is a suggested guideline. Species that are extinct or extirpated from the state should not be included" (adapted from Csuti and Crist 2000).

Reviewer comments were compiled, and, after additional in-house review, species were added to or eliminated from the list as necessary. At this time, we also eliminated subspecies and distinct population designations, treating these as part of the full species. Where there was disagreement or potential confusion about taxonomic status or name, we used the current species names recognized by TNC and the Association for Biodiversity Information (ABI; 1999). The taxa thus affected include the following:

- * **River cooter (*Pseudemys concinna*) and Florida cooter (*P. floridana*).** These species interbreed and may actually be conspecifics (J. Beane, from review comments on species list, 1999). Some argue that the latter is a subspecies of the former (Seidel 1994). We treated them as two separate species.
- * **Dusky salamander (*Desmognathus fuscus*), Santeetlah dusky salamander (*D. santeetlah*), and southern dusky salamander (*D. auriculatus*).** *D. fuscus* hybridizes extensively with *D. santeetlah* in the Great Smoky Mountains (Tilley 1988). Likewise, the relationship between *D. auriculatus* and *D. fuscus* is not clear; the two may hybridize or intergrade in some areas (J. Beane, pers. comm. Mar 2000). We treated the complex as 3 distinct species.

- * **Longtail salamander (*Eurycea longicauda*) and three-lined salamander (*E. guttolineata*).** Some regard these as distinct species (e.g., Martof 1980, Wilson 1995, Carlin 1997), but others consider the latter to be a subspecies of the former (e.g., Dundee and Rossman 1989, Conant and Collins 1991). We treated them as separate full species.
- * **"Sandhills salamander" (*Eurycea "sp. 9"*).** Although this taxon is recognized by herpetologists at the NC State Museum of Natural Sciences (NCSM; J. Beane, pers. comm. 2000), it has not been officially described, so we did not include it.
- * **Redback salamander (*Plethodon cinereus*) and southern redback salamander (*P. serratus*).** The latter was previously considered a subspecies of the former (Wilson 1995); we treated them as separate full species.
- * **Zigzag salamander (*P. dorsalis*) and southern zigzag salamander (*Plethodon ventralis*).** The latter was only recently recognized as a species distinct from the former (Highton 1997). We use the name *P. ventralis* for records in North Carolina.
- * **Slimy salamanders *Plethodon glutinosus*, *P. cylindraceus*, *P. chlorobryonis*, *P. teyahalee*, and *P. chattahoochee*.** All formerly included in *P. glutinosus*. Although herpetologists at the NCSM distinguish among these species (J. Beane, pers. comm. 2000), ABI currently recognizes only *P. teyahalee* and *P. glutinosus*, with the latter incorporating ranges of the remaining three taxa. We treated *P. cylindraceus*, *P. chlorobryonis*, and *P. chattahoochee* within the species *P. glutinosus*, but treated *P. teyahalee* as a separate species.
- * **Southern leopard frog (*Rana sphenoccephala* / *R. utricularia*).** Herpetologists at the NCSM have catalogued this species as *R. utricularia* (J. Beane, pers. comm. 2000), but ABI recognizes the species as *R. sphenoccephala*, and this is the name we used.

Range Mapping

For each of the species on our final species lists, we produced range maps utilizing the global hexagonal grid system developed by the EPA for its EMAP program (White et al. 1992). For each species, each 635-km² hexagonal unit was coded as follows (adapted from Merrill et al. 1996):

- Absent (0)** The hexagon is believed to be outside of the normal range of the species.
- Possible (1)** The species possibly occurs in the hexagon; likelihood of occurrence is thought to be between 10% and 80%.
- Predicted (2)** The species is expected to occur in the hexagon with a likelihood of at least 80%.
- Confirmed (3)** The species is confidently assumed (>95% certain) or known to occur. Documented locality records within the hexagon were required for this coding.
- Excluded (4)** The occurrence of the species within the hexagon was excluded after having previously been coded as either predicted or confirmed.

Initial range delineation

Initial range maps were produced from a VCA data table that indicated occurrence and migratory status of species within North Carolina's 100 counties. North Carolina counties range in size from 569 to 3570 km² (mean: 1364 km²). In the original table, residence status of species within counties was coded in two ways. In one field [CtyOccurStat], species presence was coded as:

- ? Possible
- P Predicted or probable
- C Confirmed
- X Presumed extirpated

In a second field [CtyMigrantStat], species migratory status was coded as:

- S? Seasonal resident and possible breeder
- SP Seasonal resident and probable breeder
- SC Seasonal resident and confirmed breeder
- SN Seasonal resident and nonbreeder
- SH Seasonal resident and current nonbreeder, historic breeder
- T Transient
- Y? Year-round resident and possible breeder
- YP Year-round resident and probable breeder
- YC Year-round resident and confirmed breeder
- YN Year-round resident and nonbreeder
- YH Year-round resident and current nonbreeder, historic breeder

The VCA table was converted to separate county occurrence tables in crosstabular format for mammals, bird, reptiles, and amphibians. The first column of these tables contained the 100 county FIPS (Federal Information Processing Standard) codes. The remaining columns were the element codes of the individual species. For all taxa other than birds, a value of **1 (possibly present)** was assigned to a cell if the species had been coded as **P** or **C** for a county in the **CtyOccurStat** field of the original VCA table; the default value was **0 (absent)**. For birds, we included only breeding ranges. Thus, to be coded as possibly present in a county, an additional requirement was a code of **S?**, **SP**, **SC**, **Y?**, **YP**, or **YN** in the **CtyMigrantStat** field of the original VCA table.

County occurrence tables were joined to a county coverage (acquired from NC-CGIA “**CB100**”) in ArcView GIS so that range maps for each species could be visually assessed and compared to existing maps. In many cases, modifications were made at this stage if VCA data appeared to be absent or missing, or were in serious disagreement with published range maps (Hamel 1992, LeGrand and Hall 1999, National Geographic Society 1987, Palmer and Braswell 1995, Peterson 1980, Webster et al. 1985, Whitaker and Hamilton 1998, Wilson 1995). Deviations from the VCA ranges are summarized in Appendix 2.

After the in-house review of county ranges, county occurrence tables were converted to hexagon occurrence tables. This was accomplished using an algorithm developed by S. Williams. Polygon coverages of the EPA EMAP hexagons (acquired from the National Gap Office) and the county boundaries (acquired from NC-CGIA “**CB100**”) were intersected to create a new polygon coverage called **CNTYHEX**. Polygons not within North Carolina were removed from **CNTYHEX**, and an additional attribute field was created to indicate the percent of the hexagon within North Carolina represented by that polygon. For each species, the polygons were selected by county occurrence, then hexagon percentages were summed. If at least 50% of a hexagon was covered by occupied counties, the hexagon was coded as occupied.

The resulting hexagon occurrence tables were identical in structure to the county occurrence tables, and cells were coded as **1 (possible)** or **(0) absent**. Another in-house review was conducted to ensure that the hexagon occurrence tables were reasonable. For example, the Neuse river waterdog (*Necturus lewisi*) occurs only within the Neuse river drainage basin, but a straight conversion from counties to hexagons would result in many hexagons entirely outside of the Neuse river basin being coded as possible. Similarly, shorebirds and sea turtles needed revision.

Incorporation of point localities

To improve the reliability of our range maps, we used locality records from several sources: existing point coverages, computerized location files, and hard copy museum records.

We obtained 2 GIS coverages from the North Carolina Natural Heritage Program. One, received on 5 December, 1999, contained point locations for species of concern tracked by NHP. A second file contained records from the North Carolina State Museum of Natural Sciences (NCSM) for a subset of species from the southeastern region of the state. The latter, received on 2 July 1999, had been compiled for a conservation assessment of the Southeast Coastal Plain (Hall and Schafale 1999). From each of these coverages, only those records from 1979 and later were used.

All point localities had an associated accuracy code to indicate the degree of confidence in the mapped location. The codes used by the NCSM were:

- L1** The linear site is known to be no more than 1/2 mile long
- L2** The linear site is known to be no more than 1 mile long
- L3** The linear site is known to be no more than 2 miles long
- L4** The linear site is known to be no more than 6 miles long
- L5** The linear site is known to be no more than 25 miles long
- L6** The linear site does not exceed a distance equal to 1/2 the State of North Carolina
- L7** The linear site does not exceed a distance equal to the diameter of North Carolina
- S0** Precise location known, plus/minus 200' (= within a POINT of QBSP)
- S1** Location known to be within a circle 1/4 mile in diameter
- S2** Location known to be within a circle 1/2 mile in diameter
- S3** Location known to be within a circle 1 mile in diameter (= 1 SQUARE of QBSP)
- S4** Location known to be within a circle 2 miles in diameter
- S5** Location known to be within 9 square miles (NW Block of QBSP for BBA)
- S6** Location known to be within a BLOCK (= 25 square miles) of QBSP
- S7** Location known to be within a COUNTY
- S8** Location known to be within 1/2 of the State of North Carolina
- S9** Location is known to be within the State of North Carolina
- U** Unknown

Only localities with a confidence of L5, S6, or better were used. From the NHP species file, all points were within acceptable accuracy limits, and the accuracy codes used were:

- S** Element is located within a 5- to 10-second (~500 ft.) radius of coordinates
- M** Element is located within a 1-minute (~1 mile) radius of coordinates
- G** Element is located within 5 miles of coordinates

For birds, the NCSM also maintains a computerized file of Breeding Bird Atlas (BBA) data and another for additional sight records. We obtained these files from J. Gerwin on July 21, 1999. Records in both files were referenced to the Quadrant-Block-Square-Point (QBSP) system of the NC Forest Service. We obtained coverages of quadrants, blocks, squares, and points for North Carolina through the North

Carolina Department of Agriculture and Consumer Services, Veterinary Division. Because the point coverage contained only one of the 25 points in each square, we generated a new ArcView shapefile containing all 25 points for each square by trigonometric extrapolation. The BBA and additional sight records were matched to this point shapefile to determine the coordinates of the locations. Because BBA surveys were conducted over multiple years, each point was assigned the latest observation date for each species, rather than including multiple records for the same location. BBA surveys were generally conducted within the NW corner (9 squares) of a block, so that the accuracy code was **S5** (see above). Other sight records had accuracy codes of **S2**. For all points, only records from 1984 and later were used.

Additional point localities were obtained from museum specimen records gathered at the NCSM with the help and cooperation of J. Gerwin (birds), M.K. Clark and L. Gatens (mammals), and J. Beane (herptiles). Some of the records had already been entered into computer files by museum staff, whereas others had to be obtained directly from specimens (birds) or catalogs (mammals and herptiles). Points were plotted directly into an ArcView shapefiles by K. Hazler from written descriptions referencing county roads, rivers, and other landmarks. This was accomplished using appropriate county road shapefiles (ESRI 1995) as an underlying layer and consulting the NC Atlas and Gazetteer (1993). A subset of points had coordinates already assigned (latitude/longitude or UTM); these were generated in ArcInfo, then added to the existing shapefiles. For mammals, an attempt was made to map all locations for each species (but ignoring multiple records in close proximity to each other). Much less effort was expended on bird specimens, because of the statewide coverage provided for most species by the BBA data. Due to the great volume of herptile records, a stratified approach was employed, and an attempt was made to map at least one recent location per species from each county. For all taxa, only records from 1979 or later were utilized, and we strove not to duplicate effort for species in areas previously mapped in the coverages obtained from the NHP. All points were attributed with species, collection date, and standard museum accuracy codes.

Using ArcView GIS, point locations were buffered with the appropriate radius, and the buffer area was calculated. The buffers were then unioned with the EPA hexagons, resulting in union polygons attributed with point identification numbers, buffer area for the associated points, species element codes, and hexagon identification numbers. Polygons not associated with any point buffer were deleted, and the union area was calculated for the remaining polygons. If the buffer area equaled the union area, a score of **3 (confirmed)** was assigned to the union polygon. If the union area was less than buffer area, but greater than 1/3 of the buffer area, the polygon was assigned a score of **2 (predicted)**. The polygon attribute table was crosstabulated to determine the maximum score for each species in each hexagon. An algorithm developed by K. Hazler compared the polygon attribute table to the existing hexagon occurrence table. If the value of a cell in the polygon attribute table exceeded the value in the corresponding table of the hexagon occurrence table, the hexagon occurrence table was updated to reflect the higher value. Thus, simple presence/absence codes were replaced with codes based on probability of occurrence.

Once the hexagon occurrence tables had been updated to reflect point localities, they were joined to the EMAP hexagon coverage in ArcView GIS so that the updated range maps for each species could be visually assessed and modified further. Changes made during this stage were somewhat subjective, although we strove to be as consistent and conservative as possible. Where hexes originally coded as "possible" were surrounded by or adjacent to at least 3 "confirmed" hexes, they were upgraded to "predicted." If "confirmed" or "predicted" hexes fell outside the "possible" range, but were not more than two hexes removed, we coded adjacent hexes as "possible" to produce a continuous range (except in the case of rare species). However, if these outliers were more than two hexes removed, they were considered to represent disjunct populations or (in the case of migratory species) were considered to be accidental records and coded as **4 (excluded)**. For a subset of maps that seemed questionable after completion of this process, K. Hazler consulted with M.K. Clark and L. Gatens (mammals), J. Gerwin (birds), and J. Beane (herptiles).

Steve Williams and Mathias Russ developed an Internet based approach to make range maps available for expert review. Reviewers could choose an interactive Internet review process or download hardcopy maps for offline review. For each species, experts made changes where appropriate by assigning a new status to individual hexagons. Hardcopy maps were returned to NC Gap through US Mail. Online reviews were exported to a text file and a printed hardcopy was used for range updates. Two software packages, ArcView GIS 3.2a and JMP Statistical Software version 4.0.2, were used to integrate range updates based upon expert review. A procedure was used by George W. Eason to minimize error and maximize efficiency in updating the range extents for each species. This method also allowed various hex-level comparisons showing expert disagreement over the range extent of a given species. To maintain a high level of confidence, internal review eliminated maps where no specific conclusion could be drawn regarding changes to range extent.

Working by reviewer and species, individual hexagons were selected in ArcView based on the new status assigned by an expert reviewer. For example, all hexagons assigned a new reviewed status of '1' (possible) were highlighted and exported as a table in dBase (DBF) file format. The table was then imported into a master JMP table with columns showing status changes based on Hex_ID and ElCode. A third column labeled by reviewer's name reflected the new hex status. This process was repeated for all species with range updates. For Hexagons where an expert reviewer was unsure or questioned the status of a given hexagon, a value of '999' (questionable) was assigned.

After incorporating all reviewer changes, individual tables were joined, combining reviewer changes into a single 'master' table. Original 'pre-reviewed' hex values were added as a new column to the master table for comparison, and the 'status' column was split to create a new status column for each reviewer. The master table was sorted by species element code and subset by taxa (Aves, Herps, and Mammals) to minimize processing time. Disagreements in reviewer ratings and downgrades to original hex values were identified using column formulas within each table, and several new columns were added to perform various calculations.

A column was created for each reviewer (i.e., ReviewerInitials-DG) to calculate if a given hexagon was a status downgrade from the original value. Another formula showed disagreement in hex ratings among reviewers by populating each cell with a '1' (YES) if any reviewer disagreed with another reviewer. A formula was also used to calculate disagreement where: 1 (YES) is written if any two reviewers downgrade a hex (or mark as 5 'Historical' or 999 'questionable') AND they do not agree. The 'Final Status' column reflected the updated hexagon value. For any hexagon where reviewers disagreed on range status (either via downgrade or general disagreement), the final status assigned was often based on the highest value assigned by a reviewer (usually '3' - Confirmed) with regard to reviewer comments and internal review. Disagreement over range extent was minimal for reptiles, amphibians and mammals as reviewer input for these taxa was limited at that time.

All master tables were subset, sorted and saved as two separate dBase tables (for each taxon) for reintegration into ArcView. The First table reflected the new hexagon values by Element Code and the second table attributed the changes to specific reviewer. Steve Williams incorporated these changes into an ArcView project that allowed immediate updates to species ranges by directly editing hex values. This was useful for meeting with expert reviewers, as changes could be made in situ. The project simultaneously updated the reviewer ID table with each change a reviewer made.

Reptilian range extents were updated using published ranges from Palmer and Braswell and entered directly into ArcView using this new project. G. W. Eason met with expert reviewer Jeff Beane to verify accuracy of reptilian ranges and update amphibian ranges. An internal review was performed to check AV range extents with original reviewer maps.

We obtained additional point localities from Perry Sumner of the North Carolina Wildlife Resources Commission (WRC) in May of 2001. These records consisted of mammal sightings throughout the state with narrative location descriptions. Due to a large amount of gray and red fox sightings, a subset of points was chosen for these two species using a stratified random sample by county. T. King used county road shapefiles (ESRI 1995, NC DOT) and the NC Atlas and Gazetter (1993) in conjunction with the location descriptions provided by the WRC to plot points directly into an ArcView shapefile. Only records from 1979 or later were used. Using an ArcView extension (Add XY Extension) created by Z. Stauber and available from the ESRI website, X and Y coordinates were determined for each point. These known point locations were then used to update the range maps.

We also obtained county distribution maps from the WRC for seven species (nutria, striped skunk, coyotes, groundhog, river otter, spotted skunk, and beaver). The range maps for these seven species were updated accordingly. Range maps for all other furbearer species (bobcat, mink, muskrat, opossum, red fox, grey fox and raccoon) were updated based on the WRC submission that they are currently statewide in distribution.

T. King and S. Williams met with L. Gatens from the NC Natural Sciences Museum on 9 August 2001 to review the mammal range maps. Range maps were reviewed and updated based on Ms. Gatens' professional opinion on the status and distribution of mammals across the state of North Carolina. Ms. Gatens also provided us with data from the 1999/2000 and 2001 Bat (Chiroptera) Inventory of North Carolina State Parks report. This data consisted of location descriptions for sampling stations and lists of which species were caught and was used by T. King to directly update the mammal range maps.

T. King and S. Williams also met with David Webster from UNC-Wilmington on 18 September 2001 to review several mammalian species range maps. These included all rodentia and chiroptera species as well as several others. Range maps were updated based on Dr. Webster's professional opinion as well as an extensive collection of specimen records.

Exceptions to the standard mapping process

- * **Nutria (*Myocastor coypus*).** No information on range or county distribution was available in the VCA data, and the range map published in Whitaker and Hamilton (1998) did not show nutria in North Carolina. Our map is based on the map in Webster et al. (1985) after consultation with Mary Kay Clark and Lisa Gatens at the NCSM (pers. comm., 14 Mar 2000).
- * **Carolina mountain dusky salamander (*Desmognathus carolinensis*), Ocoee salamander (*D. ocoee*), and Blue Ridge dusky salamander (*D. orestes*).** County distributions for these species were not included in the original VCA data, presumably because these species were recently split from *D. ochrophaeus*. Species' descriptions and range information are given in Tilley and Mahoney (1996); our maps are based on this paper.
- * **Rare species listed by the North Carolina Natural Heritage Program (LeGrand and Hall 1999).** For most species on this list, counties of occurrence were given. Our range maps were modified according to this list if it appeared (based on the distribution of point locality records) that the original VCA data exaggerated the extent of the range.

Results

Range maps were produced for 414 species, including 76 amphibians, 70 reptiles, 193 birds, and 75 mammals. The maps incorporate 748 point localities from the NCSM (subset of species in the southeast region only), 2028 points from the NHP (special concern species only), as well as 27,210 point localities that were newly mapped for this project. The newly mapped points include 25,001 records from Breeding Bird Atlas data and other sight records for birds, along with museum specimen records for birds (193 points), mammals (627 points), and herptiles (1389 points). We are able to have the highest confidence in our bird range maps due to the great volume of confirmed point localities. Deliverable products from our efforts include:

- * Point location files (with state plane and lat-long coordinates) for BBA data, which may be used by the NCSM to produce Breeding Bird Atlas Maps for North Carolina
- * Point location files (with state plane and lat-long coordinates) for NCSM specimen records, expanding the geographic range and number of species represented over the coverages originally produced for the conservation assessment of the southeastern region
- * Improved, up-to-date range maps at the resolution of 635-km² EMAP hexagons for 414 species in the state of North Carolina.

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Appendix 1

Reviewers of Species Lists

Mammals

Stephen Busack, Director, Research and Collections, NC Museum of Natural Sciences
Mary K. Clark, Curator of Mammals, NC Museum of Natural Sciences
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Mark D. Jones, Black Bear Project Leader, NC Wildlife Resources Commission
Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources Commission
David Sawyer, Wildlife Biologist, NC Wildlife Resources Commission
John Ann Shearer, State Coordinator for Partners for Fish and Wildlife, USFWS - Raleigh, NC
Perry Sumner, Furbearer Project Leader, NC Wildlife Resources Commission
David Webster, Professor and Curator of Mammals, UNC Wilmington
Peter Weigl, Professor, Wake Forest University
Raleigh USFWS office (group effort)

Birds

David Allen, Coastal Non-Game Project Leader, NC Wildlife Resources Commission
Cynthia Britton, Deputy Refuge Manager, USFWS Great Dismal Swamp National Wildlife Refuge, VA
John Gerwin, Collections Manager-Birds, NC State Museum of Natural Sciences
Walker Golder, Coastal Coordinator, National Audubon Society
Lamar Gore, Wildlife Biologist, USFWS
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Mark Johns, NC Coordinator-Partners in Flight, NC Wildlife Resources Commission
David Lee, Curator of Birds, NC State Museum of Natural Sciences
Harry LeGrand, Zoologist, NC Natural Heritage Program
Christopher McGrath, Mountain Non-Game Project Leader, NC Wildlife Resources Commission
Raleigh USFWS office (group effort)
John Stanton, Refuge Biologist, Mattamuskeet National Wildlife Reserve

Reptiles

Jeff Beane, Herpetology Collections Manager, NC State Museum of Natural Sciences
Alvin Braswell, Curator of Herpetology, NC State Museum of Natural Sciences
John E. Fauth, Associate Professor, Dept. of Biology, College/University of Charleston, Charleston, SC
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Chuck Peoples, Wildlife Biologist, Champion Paper Company - North Carolina
Allen Ratzlaff, Fish and Wildlife Biologist, USFWS - Western NC
David Sawyer, Wildlife Biologist, NC Wildlife Resources Commission
Raleigh USFWS office (group effort)

Amphibians

Jeff Beane, Herpetology Collections Manager, NC State Museum of Natural Sciences
Alvin Braswell, Curator of Herpetology, NC State Museum of Natural Sciences
John E. Fauth, Associate Professor, Dept. of Biology, College/University of Charleston, Charleston, SC
John Groves, Curator of Reptiles and Amphibians, NC Zoological Park
Chuck Peoples, Wildlife Biologist, Champion Paper Company - North Carolina
Allen Ratzlaff, Fish and Wildlife Biologist, USFWS - Western NC

Appendix 2

Summary of initial changes made to range maps deviating from ranges in Vertebrate Characterization Abstracts (VCA)

- ABNKC12040 ACCIPITER COOPERII COOPER'S HAWK**
Craven County was eliminated from VCA range because it is disjunct and not supported by range comments or point locations.
- AAABC01010 ACRIS CREPITANS NORTHERN CRICKET FROG**
Northampton County was added to VCA range to fill in gap.
- ARADE01020 AGKISTRODON PISCIVORUS COTTONMOUTH**
Anson County was added to VCA range to reflect map in Palmer and Braswell (1995).
- ABPBX91050 AIMOPHILA AESTIVALIS BACHMAN'S SPARROW**
Range map was modified after referring to NHP list.
- ARABA01010 ALLIGATOR MISSISSIPPIENSIS AMERICAN ALLIGATOR**
Range map was modified after referring to NHP list, but excludes Gates and Camden Counties since they seem to be outliers and are not supported by any point localities.
- AAAAA01090 AMBYSTOMA MACULATUM SPOTTED SALAMANDER**
Numerous eastern counties were eliminated from VCA range to reflect map shown in Wilson (1995). After consultation with J. Beane (16 Mar 2000), possible range was extended slightly to incorporate easternmost point record.
- AAAAA01100 AMBYSTOMA OPACUM MARBLED SALAMANDER**
Numerous western counties were eliminated from VCA range to reflect map in Wilson (1992). Consulted with J. Beane (16 Mar 2000) on whether to connect mountain range to remainder of range. He had no strong opinion on that, but we decided to join it since the original VCA range covered the entire state.
- AAAAA01120 AMBYSTOMA TALPOIDEUM MOLE SALAMANDER**
Range map was modified after referring to NHP list.
- AAAAA01140 AMBYSTOMA TIGRINUM TIGER SALAMANDER**
Range map was modified after referring to NHP list.
- ABPBXA0030 AMMODRAMUS HENSLOWII HENSLOW'S SPARROW**
Range map was modified after referring to NHP list.
- ABNFE01010 ANHINGA ANHINGA ANHINGA**
Camden, Onslow, and Pender Counties were added to VCA range to fill in gaps.
- ARACF01010 ANOLIS CAROLINENSIS GREEN ANOLE**
Added several counties to VCA range to reflect map in Palmer and Braswell (1995).
- ARAAG01030 APALONE SPINIFERA SPINY SOFTSHELL**
Buncombe, Cleveland, Gaston, Madison, and Rutherford Counties were added to VCA range to reflect map in Palmer and Braswell (1995).
- AMABA03020 BLARINA CAROLINENSIS SOUTHERN SHORT-TAILED SHREW**
Stanley Co. was added to VCA range to fill in gap.
- ABNGA01020 BOTAURUS LENTIGINOSUS AMERICAN BITTERN**
Range map was modified after referring to NHP list, but kept intervening areas from VCA.
- ABNJB05030 BRANTA CANADENSIS CANADA GOOSE**
Numerous counties were added to VCA range to fill in gaps between counties with known breeding.

ABNGA07010 BUBULCUS IBIS

Currituck County was added to VCA range to fill in gap.

CATTLE EGRET

AAABB01210 BUFO FOWLERI

Brunswick and Columbus Counties were eliminated from VCA range to reflect Wilson's (1995) map for B. woodhousii.

FOWLER'S TOAD

ABNKC19030 BUTEO LINEATUS

Mountain counties were eliminated from VCA range, based on comments in VCA data, map shown in Hamel (1992), and lack of point localities supporting presence of breeding populations there.

RED-SHOULDERED HAWK

ABNKC19050 BUTEO PLATYPTERUS

Coastal counties were eliminated from VCA range, based on map shown in Hamel (1992)

BROAD-WINGED HAWK

AMAJA01010 CANIS LATRANS

The original VCA data showed very limited range. The range map was changed to include the entire state, to incorporate point records and reflect the map published in Whitaker and Hamilton (1998).

COYOTE

ARAAA01010 CARETTA CARETTA

Range map was modified after referring to NHP list.

LOGGERHEAD

ABPBY04040 CARPODACUS MEXICANUS

Alamance County was added to VCA range to fill in gap. Southern coastal plain counties were eliminated from VCA range to reflect map in Hamel (1992).

HOUSE FINCH

ARADB03010 CEMOPHORA COCCINEA

Burke, Forsyth, and Rockingham Counties were added to VCA range to reflect map in Palmer and Braswell (1995).

SCARLET SNAKE

ABNUA03010 CHAETURA PELAGICA

Alamance County was added to VCA range to fill in gap.

CHIMNEY SWIFT

ABNNB03070 CHARADRIUS MELODUS

Onslow County was added to VCA range to fill in gap.

PIPING PLOVER

ARAAA02010 CHELONIA MYDAS

Range map was modified after referring to NHP list.

GREEN TURTLE

ABPBX96010 CHONDESTES GRAMMACUS

Range map was modified after referring to NHP list.

LARK SPARROW

ABNTA02020 CHORDEILES MINOR

Some mountain counties were eliminated from VCA range, based on map in Hamel (1992)

COMMON NIGHTHAWK

ARAAD02010 CLEMMYS GUTTATA

Granville and Vance Counties were eliminated from range, based on Palmer and Braswell (1995).

SPOTTED TURTLE

ARAAD02040 CLEMMYS MUHLENBERGII

Range map was modified after referring to NHP list.

BOG TURTLE

ARACJ02110 CNEMIDOPHORUS SEXLINEATUS

Several counties were added to VCA range to reflect map in Palmer and Braswell (1995).

SIX-LINED RACERUNNER

ABNRB02010 COCCYZUS ERYTHROPHALMUS

Range map was modified after referring to NHP list.

BLACK-BILLED CUCKOO

AMABB05010 CONDYLURA CRISTATA

Range map was modified after referring to NHP list, but we retained intervening areas from VCA and added some based on point locations. Mecklenburg, although listed as a possible county within the range in the NHP list, was

STAR-NOSED MOLE

AMACC08020 CORYNORHINUS RAFINESQUII RAFINESQUE'S BIG-EARED BAT

Range map was modified after referring to NHP list, but retained some intervening areas from VCA. Alexander Co. was excluded because no records have been reported in >20 years, it is disjunct, and it was not included in VCA.

AMACC08010 CORYNORHINUS TOWNSENDII TOWNSEND'S BIG-EARED BAT

Range map was modified after referring to NHP list.

ARADE02010 CROTALUS ADAMANTEUS EASTERN DIAMONDBACK RATTLESNAKE

Cumberland and Robeson Counties were added to VCA range, based on Palmer and Braswell (1995) and NHP list.

ARADE02040 CROTALUS HORRIDUS TIMBER RATTLESNAKE

J. Beane (pers. comm. 16 Mar 2000) said the range we showed based on the VCA data was too extensive, and that the rattlesnake is gone from most of the east/central Piedmont. He recommended we eliminate Chatham, Forsyth, Guilford, Johnston, Lee, Rockingham, and Wake Counties from range (but wasn't sure he had listed all). We also eliminated a few other hexagons to the north of these areas, but left two hexagons where Beane said there may still be an extant population. Our map now looks much more similar to the maps shown in Wilson (1995) and in Palmer and

ARAAD03010 DEIROCHELYS RETICULARIA CHICKEN TURTLE

Camden County was eliminated from, and Craven, Dare, Onslow, and Wayne Counties were added to VCA range, based on Palmer and Braswell (1995).

ABPBX03050 DENDROICA CAERULESCENS BLACK-THROATED BLUE WARBLER

After consultation with J. Gerwin (23 Mar 2000), several hexagons were excluded, some coded "possible" were downgraded to "absent", and some were upgraded to "predicted".

ABPBX03240 DENDROICA CERULEA CERULEAN WARBLER

Range map was modified after referring to NHP list.

ABPBX03020 DENDROICA PENNSYLVANICA CHESTNUT-SIDED WARBLER

Range map was created from map in Hamel (1992).

ABPBX03010 DENDROICA PETECHIA YELLOW WARBLER

After consultation with J. Gerwin (23 Mar 2000), one confirmed outlier hexagon was excluded.

AAAAD03010 DESMOGNATHUS AENEUS SEEPAGE SALAMANDER

Map was modified after referring to NHP list.

AAAAD03020 DESMOGNATHUS AURICULATUS SOUTHERN DUSKY SALAMANDER

After consultation with J. Beane (16 Mar 2000), a bit of the western range was eliminated.

AAAAD03130 DESMOGNATHUS CAROLINENSIS CAROLINA MOUNTAIN DUSKY SALAMANDER

No VCA range was available. Range map is based on map prepared by Tilley and Mahoney (1996).

AAAAD03040 DESMOGNATHUS FUSCUS DUSKY SALAMANDER

J. Beane (16 Mar 2000) thought map looked about right. Point locations coded hexes as "predicted" rather than confirmed, due to possibility of taxonomic confusion.

AAAAD03140 DESMOGNATHUS OCOEE OCOEE SALAMANDER

No VCA range was available. Range map is based on map prepared by Tilley and Mahoney (1996).

AAAAD03150 DESMOGNATHUS ORESTES BLUE RIDGE DUSKY SALAMANDER

No VCA range was available. Range map is based on map prepared by Tilley and Mahoney (1996).

ABPBXA9010 DOLICHONYX ORYZIVORUS BOBOLINK

After consultation with J. Gerwin (23 Mar 2000), added confirmed hexagon at Shining Rock Wilderness, and coded hexagons in Alleghany Co. as predicted. Two confirmed hexagons outside of Mountains were excluded.

ABNGA06040 EGRETta CAERULEA

Onslow and Pender Counties were added to VCA range to fill in gap.

LITTLE BLUE HERON

ABNGA06030 EGRETta THULA

Onslow and Pender Counties were added to VCA range to fill in gap.

SNOWY EGRET

ABNGA06050 EGRETta TRICOLOR

Onslow and Pender Counties were added to VCA range to fill in gap.

TRICOLORED HERON

ARADB13020 ELAPHE GUTTATA

Many counties were eliminated from VCA range based on maps in Palmer and Braswell (1995) and in Wilson (1995).

CORN SNAKE

ABNGE01010 EUDOCIMUS ALBUS

Hyde County was added to VCA range to fill in gap.

WHITE IBIS

ARACH01070 EUMECES INEXPECTATUS

Several counties were added to VCA range to fill in gaps and to reflect maps in Palmer and Braswell (1995) and in

SOUTHEASTERN FIVE-LINED SKINK

AAAAD05090 EURYCEA QUADRIDIGITATA

Montgomery and Anson Counties were added to VCA range to fill in gaps.

DWARF SALAMANDER

ABNKD06020 FALCO SPARVERIUS

Coastal counties were added to VCA range, based on range comments in VCA data, map shown in Hamel (1992), and

AMERICAN KESTREL

ARADB14010 FARANCIA ABACURA

Wake and Chatham Counties were added to range to reflect map in Palmer and Braswell (1995).

MUD SNAKE

AAABE01010 GASTROPHRYNE CAROLINENSIS

Onslow County was added to VCA range to fill in gap.

EASTERN NARROWMOUTH TOAD

ABPBX08010 HELMITHEROS VERMIVORUS

After consultation with J. Gerwin (23 Mar 2000), several hexagons were upgraded to "predicted". He said the Piedmont portion of the range was okay, although they are probably rare there. The Piedmont was not included in the original VCA range, but was added due to point records.

WORM-EATING WARBLER

AAAAD08010 HEMIDACTYLIUM SCUTATUM

Range map was modified after referring to NHP list.

FOUR-TOED SALAMANDER

ARADB17030 HETERODON SIMUS

Range map was modified after referring to NHP list.

SOUTHERN HOGNOSE SNAKE

ABNND01010 HIMANTOPUS MEXICANUS

Hyde and Pender Counties were added to range to fill in gaps.

BLACK-NECKED STILT

AAABC02010 HYL A ANDERSONII

Range map was modified after referring to NHP list.

PINE BARRENS TREEFROG

AAABC02120 HYL A SQUIRELLA

Robeson County was added to VCA range to fill in gap.

SQUIRREL TREEFROG

AAABC02130 HYL A VERSICOLOR

After consultation with J. Beane (16 Mar 2000), range was restricted to NW Warren County. Original VCA range extended throughout state, but was presumably due to confusion with *H. chrysoscelis*.

GRAY TREEFROG

ABPBXB9190 ICTERUS GALBULA

Per consultation with J. Gerwin (23 Mar 2000), the outlier hexagons are legitimate breeding records. He also guesses that many hexagons to the south and west of confirmed/predicted hexagons in the Piedmont should be upgraded to "possible", but wants to know what Harry LeGrand thinks about that.

BALTIMORE ORIOLE

ABPBXB9070 ICTERUS SPURIUS

This species is "quite rare" in the mountains and confined to low valleys (J. Gerwin, pers. comm. 23 Mar 2000), so we left the outliers as they were.

ORCHARD ORIOLE

ABNGA02010 IXOBRYCHUS EXILIS

Wilson County was added to VCA range to fill in a gap.

LEAST BITTERN

ABPBXA5020 JUNCO HYEMALIS

After consultation with J. Gerwin (23 Mar 2000), several confirmed hexagons were excluded, and several "possible" hexagons in the mountains were upgraded to "predicted".

DARK-EYED JUNCO

ARAAE01010 KINOSTERNON BAURII

Franklin County was added to VCA range, per Palmer and Braswell (1995).

STRIPED MUD TURTLE

ARADB19010 LAMPROPELTIS CALLIGASTER

Cherokee County was added to VCA range to reflect map in Palmer and Braswell (1995).

MOLE KINGSLAKE

ARADB19020 LAMPROPELTIS GETULA

Ashe, Alleghany, Wilkes, and Watauga Counties were eliminated from VCA range based on Palmer and Braswell

COMMON KINGSLAKE

ABNNM03120 LARUS ARGENTATUS

Onslow, Pender, and New Hanover Counties were added to VCA range to fill in gap.

HERRING GULL

ABNME03040 LATERALLUS JAMAICENSIS

Hyde County was added to VCA range to fill in gap.

BLACK RAIL

ARAAA04010 LEPIDOCHELYS KEMPII

Range map was modified after referring to NHP list.

ATLANTIC RIDLEY

AMAJF08010 LUTRA CANADENSIS

Lenoir County was added to VCA range to fill in a gap.

NORTHERN RIVER OTTER

ARAAD06010 MALACLEMYS TERRAPIN

Range map was modified after referring to NHP list.

DIAMONDBACK TERRAPIN

AMAFB03010 MARMOTA MONAX

Alexander and Orange Counties were added to VCA range to fill in gaps. Onslow County was deleted from range because it is disjunct and not supported by range comments.

WOODCHUCK

ARADB21020 MASTICOPHIS FLAGELLUM

Harnett, Moore, Montgomery, and Stanley Counties were added to VCA range to reflect map in Palmer and Braswell

COACHWHIP

ABNYF04170 MELANERPES CAROLINUS

Alamance County was added to VCA range to fill in gap.

RED-BELLIED WOODPECKER

ABNLC14010 MELEAGRIS GALLOPAVO

Numerous counties were added to VCA range to fill in gaps, and to reflect map in Hamel (1992).

WILD TURKEY

ABPBXA3010 MELOSPIZA MELODIA

Two additional hexagons were upgraded to "predicted" after consultation with J. Gerwin (23 Mar 2000).

SONG SPARROW

AMAJF06010 MEPHITIS MEPHITIS

Original VCA data showed range throughout the state. Much of the coastal portion of the range was deleted to reflect the map printed in Whitaker and Hamilton (1998).

STRIPED SKUNK

AMAFF11010 MICROTUS PENNSYLVANICUS

Coastal areas were added to range to reflect map in Whitaker and Hamilton (1998).

MEADOW VOLE

AMAFF11150 MICROTUS PINETORUM

Outer Banks were deleted from range after consultation with M.K. Clark; otherwise range map reflects original VCA

WOODLAND VOLE

ARADC02010 MICRURUS FULVIUS EASTERN CORAL SNAKE
Harnett County was added to VCA range, based on Palmer and Braswell (1995) and NHP list.

AMAJF02020 MUSTELA NIVALIS LEAST WEASEL
Range map was modified after referring to NHP list.

AMAFK01010 MYOCASTOR COYPUS NUTRIA
There was no range information available in the VCA data. This range map is based on the maps in Webster et al., (1985) and Lee et al. (1982), after consultation with M.K. Clark (14 Mar 2000).

AMACC01030 MYOTIS AUSTRORIPARIUS SOUTHEASTERN BAT
Range map was modified after referring to NHP list.

AMACC01130 MYOTIS LEIBII EASTERN SMALL-FOOTED BAT
Range map was modified after referring to NHP list.

AMACC01010 MYOTIS LUCIFUGUS LITTLE BROWN BAT
Range map was modified after consultation with M.K. Clark at the NCSM (pers. comm. 14 Mar 2000).

AMACC01150 MYOTIS SEPTENTRIONALIS NORTHERN BAT
Range map was modified after referring to NHP list, but retained some intervening area from VCA.

AMACC01100 MYOTIS SODALIS INDIANA BAT
Range map was modified after referring to NHP list.

AMAFF08010 NEOTOMA FLORIDANA EASTERN WOODRAT
Range map was modified after referring to NHP list, but intervening areas were retained from VCA range.

AMAFF08100 NEOTOMA MAGISTER ALLEGHENY WOODRAT
Range map was modified after referring to NHP list. Alexander and Catawba Counties were added to fill in a gap.

ARADB22020 NERODIA ERYTHROGASTER REDBELLY WATER SNAKE
Anson, Chatham, Orange and Wake Counties were added to VCA range to reflect map in Palmer and Braswell (1995).

ARADB22030 NERODIA FASCIATA BANDED WATER SNAKE
Several counties were added to VCA range to reflect map in Palmer and Braswell (1995).

ARADB22060 NERODIA SIPEDON NORTHERN WATER SNAKE
Cumberland County was added to the VCA range to reflect map in Palmer and Braswell (1995).

ARADB22070 NERODIA TAXISPILOTA BROWN WATER SNAKE
Halifax County was added to VCA range to reflect map in Palmer and Braswell (1995).

ARACB02040 OPHISAURUS MIMICUS MIMIC GLASS LIZARD
Range map was modified after referring to NHP list.

ARACB02030 OPHISAURUS VENTRALIS EASTERN GLASS LIZARD
Nash, Moore, and Richmond Counties were added to VCA range to reflect map in Palmer and Braswell (1995).

ABPBZ01010 PASSER DOMESTICUS HOUSE SPARROW
Alamance County was added to VCA range to fill in gap.

ABPBX99010 PASSERCULUS SANDWICHENSIS SAVANNAH SPARROW
Range map was modified after referring to NHP list.

ABPBX64060 PASSERINA CIRIS PAINTED BUNTING
Range map was modified after referring to NHP list.

AMAFF03080 PEROMYSCUS GOSSYPINUS

Washington County was added to VCA range to fill in a gap.

COTTON MOUSE

AMAFF03060 PEROMYSCUS POLIONOTUS

Range map was modified after referring to NHP list.

OLDFIELD MOUSE

ABPAU09010 PETROCHELIDON PYRRHONOTA

Per consultation with J. Gerwin (23 Mar 2000), a few hexagons were upgraded to "confirmed".

CLIFF SWALLOW

ABNFD01020 PHALACROCORAX AURITUS

Columbus County was added to VCA range to fill in a gap. Range was extended up the coast to incorporate point

DOUBLE-CRESTED CORMORANT

ABPBX61030 PHEUCTICUS LUDOVICIANUS

After consultation with J. Gerwin (23 Mar 2000), many confirmed/predicted hexagons were excluded in the Coastal Plain and Piedmont. Some hexagons in the Mountains were upgraded to predicted.

ROSE-BREADED GROSBEAK

ABNYF07060 PICOIDES BOREALIS

Added Chowan, Currituck, Martin, Pasquotank, Perquimans, Washington, and Wilson Counties to VCA range to fill in gaps. Eliminated Outer Banks from range.

RED-COCKADED WOODPECKER

ABPBX45030 PIRANGA RUBRA

Allamance County was added to VCA range to fill in gap.

SUMMER TANAGER

ABNGE02010 PLEGADIS FALCINELLUS

Onslow and Pender Counties were added to VCA range to fill in gap.

GLOSSY IBIS

AAAAD12020 PLETHODON CINEREUS

Bertie County was added to VCA range to fill in a gap. After consultation with J. Beane (16 Mar 2000), everything west of and including Buncombe, Henderson, and Madison Counties was eliminated from the range. Based on his comment that the range in the southern portion of Coastal Plain was much spottier than shown, the map was modified to reflect

REDBACK SALAMANDER

AAAAD12160 PLETHODON SERRATUS

After consultation with J. Beane (16 Mar 2000), Buncombe, Henderson, and Madison Counties were eliminated from

SOUTHERN REDBACK SALAMANDER

AAAAD12370 PLETHODON VENTRALIS

Range map was created from NHP list.

SOUTHERN ZIGZAG SALAMANDER

AAAAD12220 PLETHODON WEHRLEI

Range map was modified after referring to NHP list.

WEHRLE'S SALAMANDER

AAAAD12230 PLETHODON WELLERI

Range map was modified after referring to NHP list.

WELLER'S SALAMANDER

ABPAW01010 POECILE ATRICAPILLUS

Range was reduced and some confirmed hexagons were excluded after consultation with J. Gerwin (23 Mar 2000).

BLACK-CAPPED CHICKADEE

ABPBX95010 POECETES GRAMINEUS

Range map was modified after referring to NHP list.

VESPER SPARROW

ARAAD07020 PSEUDEMYS CONCINNA

Several counties were added to VCA range to reflect map in Palmer and Braswell (1995). After consultation with J. Beane (16 Mar 2000), range was extended in southwestern part of range to be continuous to Polk Co.

RIVER COOTER

ABPBXB6060 QUISCALUS MAJOR

After consultation with J. Gerwin (23 Mar 2000), upgraded several hexagons to predicted.

BOAT-TAILED GRACKLE

ABNME05030 RALLUS LIMICOLA

Hyde County was added to range to fill in gap.

VIRGINIA RAIL

AAABH01220 RANA SPHENOCEPHALA SOUTHERN LEOPARD FROG
Onslow and Vance Counties were added to VCA range to fill in gaps.

AAABH01230 RANA VIRGATIPES CARPENTER FROG
Onslow County was added to VCA range to fill in gap.

AMAFF21010 RATTUS RATTUS BLACK RAT
Much of the western portion of the range was deleted based on the map shown in Whitaker and Hamilton (1998)

ARADB27030 REGINA RIGIDA GLOSSY CRAYFISH SNAKE
Hoke County was added to VCA range to reflect map in Palmer and Braswell (1995).

ARADB27040 REGINA SEPTEMVITTATA QUEEN SNAKE
Warren and Vance Counties were added to VCA range to reflect map in Palmer and Braswell (1995).

ARADB28010 RHADINAEA FLAVILATA PINE WOODS SNAKE
Beaufort, Dare, and Scotland Counties were added to VCA range to reflect map in Palmer and Braswell (1995).

ABNNM14010 RYNCHOPS NIGER BLACK SKIMMER
Onslow County was added to VCA range to fill in gap.

ARACH03010 SCINCELLA LATERALIS GROUND SKINK
Several counties were added to VCA range to reflect map in Palmer and Braswell (1995).

AMAFB07040 SCIURUS NIGER EASTERN FOX SQUIRREL
Range map was modified after referring to NHP list, but coastal counties were retained from VCA range where bounded by point records. Mountain counties itemized in NHP list were not included because they were based on old records, and no recent records support persistence of the species in that region.

ARADE03020 SISTRURUS MILIARIUS PIGMY RATTLESNAKE
Range map was modified after referring to NHP list.

AMABA01010 SOREX CINEREUS MASKED SHREW
Henderson Co. was added to VCA range to fill in a gap.

AMABA01210 SOREX DISPAR LONG-TAILED SHREW
Range map was modified after referring to NHP list, but retained intervening areas from VCA.

AMABA01180 SOREX FUMEUS SMOKY SHREW
Henderson Co. was added to VCA range to fill in gap.

AMABA01250 SOREX HOYI PYGMY SHREW
Range map was modified after referring to NHP list, but retained intervening areas from VCA.

AMABA01150 SOREX PALUSTRIS WATER SHREW
Range map was modified after referring to NHP list, but retained intervening areas from VCA.

ABNYF05010 SPHYRAPICUS VARIUS YELLOW-BELLIED SAPSUCKER
Range map was modified after referring to NHP list.

ABPBX65010 SPIZA AMERICANA DICKCISSEL
J. Gerwin (pers. comm. 23 Mar 2000) said this map was okay, despite spotty range.

ABNNM08070 STERNA HIRUNDO COMMON TERN
Range map was created based on maps from the Breeding Bird Survey (Internet page at: <<http://www.mbr.nbs.gov/bbs/bbs.html>>) and from National Geographic Society (1987)

ABNNM08030 STERNA MAXIMA ROYAL TERN
Carteret and Onslow Counties were add to VCA range to fill in gap.

ABNNM08010 STERNA NILOTICA

Hyde and Onslow Counties were added to VCA range to fill in gaps.

GULL-BILLED TERN

ABNNM08050 STERNA SANDVICENSIS

Onslow and Pender Counties were added to VCA range to fill in gaps.

SANDWICH TERN

ABPBT01010 STURNUS VULGARIS

Alamance County was added to range to fill in gap.

EUROPEAN STARLING

AMALA01010 SUS SCROFA

Coastal areas were added to VCA range to reflect map in Whitaker and Hamilton (1998).

FERAL PIG

AMAEB01090 SYLVILAGUS OBSCURUS

Range map was modified after referring to NHP list, but kept intervening areas from VCA.

APPALACHIAN COTTONTAIL

AMAFF17010 SYNAPTOMYS COOPERI

Original VCA data showed the coastal population occurring only in the extreme northeastern corner of NC, in the Dismal Swamp area. After consultation with M.K. Clark (14 Mar 2000), this range was extended to incorporate the southernmost point record, which had also been reported in Clark et al. (1993). The hexagon coded as "predicted" is based on a specimen record reported by Webster et al. (1992), which was mapped and cited in Clark et al. (1993). The hexagon was not coded "confirmed" because accuracy of this point is unknown.

SOUTHERN BOG LEMMING

ABPAU03010 TACHYGINETA BICOLOR

After consultation with J. Gerwin (23 Mar 2000), upgraded numerous hexagons to "predicted" and a few to "confirmed"

TREE SWALLOW

AMAFB08010 TAMIASCIURUS HUDSONICUS

Stokes and Rockingham Counties were added to VCA range to fill in a gap.

RED SQUIRREL

ARADB35020 TANTILLA CORONATA

Warren County was added to VCA range to reflect map in Palmer and Braswell (1995).

SOUTHEASTERN CROWNED SNAKE

ARADB36120 THAMNOPHIS SAURITUS

Several mountain counties were deleted from range to reflect maps in Palmer and Braswell (1995) and in Wilson

EASTERN RIBBON SNAKE

ARAAD09010 TRACHEMYS SCRIPTA

Cabarrus, Granville, Guilford, and Mecklenburg Counties were added to VCA range to reflect map in Palmer and

YELLOWBELLY SLIDER

ABPBX01020 VERMIVORA PINUS

Range map was modified after referring to NHP list.

BLUE-WINGED WARBLER

ABPBW01210 VIREO GILVUS

Range map was modified after referring to NHP list.

WARBLING VIREO

ABPBW01160 VIREO SOLITARIUS

Two confirmed outlier hexes were excluded after consultation with J. Gerwin (23 Mar 2000). However, it is still unclear what to do with the remaining two outliers.

BLUE-HEADED VIREO

ABPBX16030 WILSONIA CANADENSIS

After consultation with J. Gerwin (23 Mar 2000), one confirmed outlier hexagon was excluded, several other hexagons were upgraded to "predicted", and one was upgraded to "confirmed".

CANADA WARBLER

Appendix 3

Summary of changes made to hex based range maps during the expert review process

<u>AAAAA01070</u>		<u>AMBYSTOMA MABEEI</u>		<u>MABEE'S SALAMANDER</u>	
Palmer & Braswell	labeled	1179, 1403, 1619, 1626, 1733, 1740, 1741, 1742, 1852, 1853, 1854, 1855, 1856, 1968, 1969, 1970, 1971, 2082, 2084, 2202, 2315, 2316, 2556			Predicted
Jeff Beane	labeled	2196, 2313, 2314, 2432, 2433, 2552, 2553, 2554, 2673, 2674, 2675, 2676, 2677			Absent
<u>AAAAA01090</u>		<u>AMBYSTOMA MACULATUM</u>		<u>SPOTTED SALAMANDER</u>	
Jeff Beane	labeled	2198, 2199, 2316, 2317, 2435, 2436			Possible
Jeff Beane	labeled	1509, 1511, 1621, 1622, 1733, 1734, 1735, 1847, 1848, 1849, 1961, 1963, 1964, 2076, 2079, 2080, 2192, 2195, 2197, 2310, 2429, 2434, 2548, 2555, 2556, 2669, 2670, 2671, 2672, 2675, 2676, 2791, 2792, 2793, 2794, 2799, 2914, 2917, 2921, 2922, 3040, 3042, 3043, 3046, 3165, 3169, 3170, 3292, 3293, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3545, 3546, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 3802, 3805, 3806, 3807, 3808, 3934, 3937, 3938, 3939, 4066, 4067, 4068, 4070, 4199, 4200, 4201, 4334, 4335, 4336, 4470, 4606, 4607, 4609, 4743, 4744,			Predicted
John Fauth	labeled	3672, 3674, 3804			Confirmed
Palmer & Braswell	labeled	1399, 1400, 2193, 2311, 2312, 2313, 2314, 2315, 2430, 2431, 2432, 2549, 2551, 2552, 2553, 2554, 2673, 2674, 2677, 2795, 2798, 2916, 2918, 3038, 3044, 3045, 3163, 3164, 3166, 3167, 3168, 3289, 3295, 3416, 3543, 3544, 3673, 3935, 3936, 4069, 4071, 4202, 4203, 4204, 4337, 4338, 4471, 4472, 4473, 4608			Predicted
<u>AAAAA01100</u>		<u>AMBYSTOMA OPACUM</u>		<u>MARbled SALAMANDER</u>	
Palmer & Braswell	labeled	1179, 1396, 1398, 1399, 1402, 1403, 1507, 1508, 1509, 1510, 1618, 1620, 1622, 1623, 1731, 1733, 1735, 1736, 1737, 1739, 1845, 1847, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1961, 1962, 1964, 1965, 1966, 1967, 1969, 2076, 2080, 2081, 2084, 2195, 2196, 2197, 2200, 2310, 2313, 2315, 2316, 2436, 2437, 2549, 2551, 2552, 2554, 2555, 2673, 2675, 2792, 2795, 2796, 2797, 2798, 2916, 2918, 2920, 3043, 3044, 3168, 3294, 4608			Predicted
Jeff Beane	labeled	2432			Confirmed
John Fauth	labeled	2550			Confirmed
John Fauth	labeled	1180, 1181, 1286, 1288, 1289, 1290, 1292, 1293, 1395, 1397, 1400, 1401, 1506, 1514, 1617, 1619, 1621, 1627, 1730, 1732, 1734, 1738, 1740, 1741, 1844, 1846, 1848, 1856, 1959, 1960, 1963, 1971, 2075, 2082, 2083, 2085, 2086, 2192, 2193, 2194, 2198, 2199, 2201, 2202, 2311, 2312, 2317, 2319, 2429, 2430, 2433, 2434, 2435, 2548, 2556, 2557, 2669, 2671, 2672, 2677, 2791, 2793, 2794, 2799, 2914, 2917, 2921, 2922, 3038, 3042, 3045, 3046, 3163, 3165, 3166, 3167, 3170, 3289, 3291, 3292,			Predicted
<u>AAAAA01120</u>		<u>AMBYSTOMA TALPOIDEUM</u>		<u>MOLE SALAMANDER</u>	
Jeff Beane	labeled	2670			Predicted
Palmer & Braswell	labeled	2676, 2793, 2796, 2798, 2919, 2921, 3039, 3044, 3164, 3544,			Predicted
<u>AAAAA01140</u>		<u>AMBYSTOMA TIGRINUM</u>		<u>TIGER SALAMANDER</u>	
Jeff Beane	labeled	1735, 1960, 2075, 2196, 2197, 2198			Possible
Jeff Beane	labeled	2432			Predicted
Palmer & Braswell	labeled	2315, 2316, 2433, 2437, 2553, 2556			Predicted

AAAAB01010 AMPHIUMA MEANS**TWO-TOED AMPHIUMA**

Palmer & Braswell	labeled	1074, 1396, 1398, 1401, 1402, 1507, 1509, 1512, 1514, 1618, 1619, 1620, 1625, 1627, 1731, 1732, 1733, 1735, 1738, 1739, 1740, 1741, 1742, 1846, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1962, 1963, 1965, 1967, 1969, 1970, 2076, 2077, 2078, 2079, 2080, 2083, 2084, 2085, 2194, 2195, 2200, 2201, 2314, 2315, 2317, 2432, 2434, 2435, 2437, 2554, 2556, 2798	Predicted
Jeff Beane	labeled	967, 1072, 1073, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1397, 1399, 1400, 1403, 1506, 1510, 1511, 1515, 1617, 1621, 1622, 1623, 1624, 1628, 1629, 1630, 1730, 1734, 1736, 1737, 1844, 1845, 1847, 1856, 1959, 1960, 1961, 1966, 1971, 2075, 2081, 2082, 2086, 2192, 2193, 2198, 2199, 2202, 2312, 2316, 2319, 2433, 2557	Predicted
John Fauth	labeled	2555	Confirmed
John Groves	labeled	2196, 2318	Confirmed

AAAAC01010 CRYPTOBRANCHUS ALLEGANIENSIS**HELLBENDER**

Palmer & Braswell	labeled	3805, 3937, 3938, 4069, 4071, 4201, 4336, 4337, 4470, 4473, 4606, 4608, 4745	Predicted
John Groves	labeled	3803	Confirmed
John Fauth	labeled	3544	Confirmed
Chris McGrath	labeled	3543, 3672, 3673, 3935, 4067	Confirmed

AAAAD01010 ANEIDES AENEUS**GREEN SALAMANDER**

Chris McGrath	labeled	3808	Possible
Chris McGrath	labeled	4071	Predicted
Palmer & Braswell	labeled	3938, 4336, 4337	Predicted

AAAAD03010 DESMOGNATHUS AENEUS**SEEPAGE SALAMANDER**

Palmer & Braswell	labeled	4337, 4338, 4608, 4609, 4744, 4745	Predicted
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AAAAD03020 DESMOGNATHUS AURICULATUS**SOUTHERN DUSKY SALAMANDER**

Jeff Beane	labeled	967, 1072, 1073, 1074, 1181, 1182, 1183, 1184, 1292	Possible
Jeff Beane	labeled	1179, 1180, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2315, 2316,	Predicted
Jeff Beane	labeled	1291	Absent
John Fauth	labeled	2555	Confirmed

AAAAD03040 DESMOGNATHUS FUSCUS**DUSKY SALAMANDER**

Jeff Beane	labeled	3935, 3936, 4066, 4067, 4068, 4199, 4200, 4201, 4202, 4334, 4335, 4336, 4470, 4471, 4606, 4607, 4608, 4743, 4744, 4745,	Possible
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Jeff Beane	labeled	1959, 1960, 1961, 2075, 2076, 2077, 2078, 2080, 2192, 2193, 2194, 2195, 2196, 2197, 2199, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2429, 2430, 2431, 2432, 2434, 2435, 2436, 2548, 2549, 2550, 2551, 2552, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2795, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3544, 3548, 3549, 3677, 3678, 3806, 3807, 3808, 3937, 3938, 3939, 4069, 4070, 4071, 4203, 4204,	Predicted
John Fauth	labeled	3802	Confirmed
John Fauth	labeled	3672, 3673, 3803	Predicted
John Groves	labeled	2796	Confirmed
<u>AAAAD03050</u>	<u>DESMOGNATHUS IMITATOR</u>		<u>IMITATOR SALAMANDER</u>
Palmer & Braswell	labeled	4335, 4336, 4470, 4606	Predicted
<u>AAAAD03060</u>	<u>DESMOGNATHUS MONTICOLA</u>		<u>SEAL SALAMANDER</u>
Jeff Beane	labeled	3038	Predicted
Palmer & Braswell	labeled	3289, 3415, 3416, 3417, 3544, 3545, 3546, 3547, 3672, 3673, 3674, 3675, 3676, 3678, 3802, 3803, 3806, 3807, 3808, 3934, 3935, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745,	Predicted
John Fauth	labeled	3805, 3936	Confirmed
<u>AAAAD03080</u>	<u>DESMOGNATHUS QUADRAMACULATUS</u>		<u>BLACKBELLY SALAMANDER</u>
John Fauth	labeled	3936	Confirmed
Palmer & Braswell	labeled	3289, 3290, 3415, 3416, 3543, 3544, 3545, 3546, 3547, 3672, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4473, 4606, 4607, 4608, 4609,	Predicted
<u>AAAAD03100</u>	<u>DESMOGNATHUS WRIGHTII</u>		<u>PIGMY SALAMANDER</u>
Jeff Beane	labeled	3672, 3673, 4337, 4338, 4472	Predicted
John Fauth	labeled	3936	Confirmed
Palmer & Braswell	labeled	3802, 3803, 3934, 3935, 4066, 4067, 4068, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4470, 4471,	Predicted
<u>AAAAD03110</u>	<u>DESMOGNATHUS SANTEETLAH</u>		<u>SANTEETLAH DUSKY SALAMANDER</u>
Palmer & Braswell	labeled	4070, 4202, 4203, 4335	Predicted
<u>AAAAD03130</u>	<u>DESMOGNATHUS CAROLINENSIS</u>		<u>CAROLINA MOUNTAIN DUSKY SALAMANDER</u>
Jeff Beane	labeled	3676, 3805, 3806, 3935, 3936, 3937, 4066, 4067, 4068, 4069, 4199, 4200, 4201, 4202, 4334, 4335	Predicted
<u>AAAAD03140</u>	<u>DESMOGNATHUS OCOEE</u>		<u>OCOEE SALAMANDER</u>
Jeff Beane	labeled	3677, 3678, 3807, 3808, 3938, 3939, 4070, 4071, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
<u>AAAAD03150</u>	<u>DESMOGNATHUS ORESTES</u>		<u>BLUE RIDGE DUSKY SALAMANDER</u>
Jeff Beane	labeled	3039, 3163, 3164, 3289, 3415, 3416, 3417, 3543, 3544, 3545, 3546, 3547, 3672, 3673, 3674, 3675, 3676, 3802, 3803, 3804, 3805, 3806, 3934, 3935, 4066	Predicted

<u>AAAAD05020</u>	<u>EURYCEA JUNALUSKA</u>		<u>JUNALUSKA SALAMANDER</u>	
Alan Ratzlaff	labeled	4743, 4744		Confirmed
Jeff Beane	labeled	4606		Absent
<u>AAAAD05040</u>	<u>EURYCEA LONGICAUDA</u>		<u>LONGTAIL SALAMANDER</u>	
Palmer & Braswell	labeled	3543, 3544, 3672, 3803, 3804, 3934, 4201, 4335, 4338		Predicted
<u>AAAAD05090</u>	<u>EURYCEA QUADRIDIGITATA</u>		<u>DWARF SALAMANDER</u>	
Jeff Beane	labeled	1183, 1184, 1292, 1293, 1294, 1403, 1514, 1515, 1623, 1625, 1626, 1627, 1628, 1629, 1630, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1963, 1964, 1965, 1966, 1967, 1968, 1971, 2078, 2079, 2080, 2081, 2082, 2083, 2086, 2194, 2195, 2196, 2197, 2198, 2199, 2202, 2312, 2313, 2314, 2315, 2316, 2319, 2433, 2434, 2437, 2553, 2554, 2555, 2556, 2557, 2674, 2675, 2676, 2677, 2796, 2797, 2798, 2799, 2919, 2920		Predicted
<u>AAAAD05140</u>	<u>EURYCEA CIRRIGERA</u>		<u>SOUTHERN TWO-LINED SALAMANDER</u>	
Jeff Beane	labeled	1402, 1403, 1511, 1512, 1514, 1515, 1619, 1620, 1621, 1622, 1623, 1625, 1626, 1627, 1628, 1629, 1630, 1731, 1732, 1733, 1734, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1856, 1959, 1960, 1961, 1963, 1964, 1966, 1967, 1969, 1970, 1971, 2075, 2076, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2194, 2195, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2317, 2318, 2319, 2429, 2430, 2434, 2435, 2436, 2437, 2548, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2798, 2799, 2914, 2916, 2917, 2920, 2921, 2922, 3038, 3040, 3041, 3042, 3044, 3046, 3163, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3418, 3419, 3421, 3422, 3544, 3545, 3546, 3547, 3548, 3549, 3674, 3676, 3677, 3678, 3805,		Predicted
<u>AAAAD05150</u>	<u>EURYCEA WILDERAE</u>		<u>BLUE RIDGE TWO-LINED SALAMANDER</u>	
Jeff Beane	labeled	3289, 3415, 3416, 3417, 3543, 3544, 3545, 3546, 3547, 3672, 3673, 3674, 3675, 3677, 3678, 3802, 3803, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4069, 4070, 4071, 4199, 4200, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609,		Predicted
<u>AAAAD05290</u>	<u>EURYCEA GUTTOLINEATA</u>		<u>THREE-LINED SALAMANDER</u>	
John Groves	labeled	2795		Confirmed
Palmer & Braswell	labeled	1735, 1742, 1845, 1848, 1849, 2310, 2311, 2312, 2313, 2314, 2431, 2432, 2551, 2552, 2554, 2670, 2671, 2792, 2796, 2915, 2916, 2918, 2919, 2920, 3040, 3043, 3163, 3164, 3169, 3294, 3416, 3421, 3543, 3544, 3674, 3676, 3803, 3804, 3805, 3806, 3807, 3936, 3937, 3938, 3939, 4068, 4069, 4070, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4606,		Predicted
Jeff Beane	labeled	2434, 2435, 2436, 2550, 2553, 2555, 2556, 2669, 2673, 2677, 2791, 2793, 2794, 2798, 2799, 2914, 2917, 2921, 2922, 3038, 3041, 3042, 3044, 3045, 3046, 3165, 3166, 3167, 3168, 3170, 3289, 3290, 3291, 3292, 3293, 3295, 3415, 3417, 3418, 3419, 3420, 3422, 3545, 3546, 3547, 3548, 3549, 3675, 3677, 3678		Predicted
<u>AAAAD06020</u>	<u>GYRINOPHILUS PORPHYRITICUS</u>		<u>SPRING SALAMANDER</u>	
Palmer & Braswell	labeled	2914, 2915, 3038, 3039, 3040, 3042, 3043, 3163, 3164, 3165, 3166, 3167, 3289, 3290, 3291, 3292, 3293, 3415, 3416, 3417, 3418, 3419, 3420, 3544, 3545, 3546, 3547, 3548, 3672, 3673, 3674, 3675, 3802, 3804, 3805, 3806, 3807, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470,		Predicted
Jeff Beane	labeled	2795		Possible

<u>AAAAD08010 HEMIDACTYLUM SCUTATUM</u>		<u>FOUR-TOED SALAMANDER</u>	
Jeff Beane	labeled	1731, 3163	Confirmed
Jeff Beane	labeled	2085, 2202, 2318, 2319, 2436, 2437, 2556, 2557, 2677, 2798, 2799, 2920, 2921, 2922, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3291, 3292, 3293, 3294, 3295, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3934, 3936, 4066, 4067, 4071, 4199, 4200, 4201, 4202, 4203, 4334,	Possible
Palmer & Braswell	labeled	1968, 1969, 2084, 2194, 2195, 2313, 2670, 2671, 2915, 3289, 3290, 3808, 3937, 3938, 3939, 4069, 4070, 4338, 4607, 4608	Predicted
<u>AAAAD10010 LEUROGNATHUS MARMORATUS</u>		<u>SHOVELNOSE SALAMANDER</u>	
Palmer & Braswell	labeled	3417, 3544, 3545, 3546, 3547, 3673, 3674, 3675, 3676, 3802, 3803, 3805, 3806, 3934, 3935, 3936, 3937, 3938, 4066, 4067, 4068, 4069, 4199, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608	Predicted
<u>AAAAD12020 PLETHODON CINEREUS</u>		<u>REDBACK SALAMANDER</u>	
Jeff Beane	labeled	1179, 1287, 1731, 2432	Confirmed
Palmer & Braswell	labeled	1286, 1395, 1396, 1402, 1506, 1617, 1618, 1620, 1730, 1732, 1735, 1741, 1742, 1844, 1845, 1848, 1849, 1959, 1963, 2431, 2433, 2549, 2550, 2551, 2552, 2670, 2671, 3672, 3673, 3802, 3803, 3804, 3934, 3935, 3936, 4067	Predicted
<u>AAAAD12070 PLETHODON GLUTINOSUS</u>		<u>SLIMY SALAMANDER</u>	
Jeff Beane	labeled	1180, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1514, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1959, 1960, 1962, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2195, 2196, 2197, 2198, 2199, 2200, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2319, 2429, 2430, 2431, 2432, 2434, 2437, 2548, 2549, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743,	Predicted
<u>AAAAD12090 PLETHODON JORDANI</u>		<u>JORDAN'S SALAMANDER</u>	
Palmer & Braswell	labeled	3673, 3676, 3677, 3802, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4743	Predicted
John Fauth	labeled	3936	Confirmed
Jeff Beane	labeled	3675	Possible
Jeff Beane	labeled	3548, 3674	Predicted
<u>AAAAD12150 PLETHODON RICHMONDI</u>		<u>RAVINE SALAMANDER</u>	
Palmer & Braswell	labeled	3544, 3672, 3674, 3675, 3802, 3804, 3934, 3935, 4066	Predicted

<u>AAAAD12160</u>	<u>PLETHODON SERRATUS</u>		<u>SOUTHERN REDBACK SALAMANDER</u>	
Palmer & Braswell	labeled	4070, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4471, 4472, 4606, 4607, 4608		Predicted
<u>AAAAD12220</u>	<u>PLETHODON WEHRLEI</u>		<u>WEHRLE'S SALAMANDER</u>	
Jeff Beane	labeled	3544		Confirmed
Palmer & Braswell	labeled	3164, 3543		Predicted
<u>AAAAD12230</u>	<u>PLETHODON WELLERI</u>		<u>WELLER'S SALAMANDER</u>	
Jeff Beane	labeled	3804		Confirmed
<u>AAAAD12240</u>	<u>PLETHODON YONAHLOSSEE</u>		<u>YONAHLOSSEE SALAMANDER</u>	
Jeff Beane	labeled	3416, 3804, 3937		Confirmed
Palmer & Braswell	labeled	3544, 3672, 3673, 3674, 3803, 3805, 3935, 4068		Predicted
Jeff Beane	labeled	3938		Predicted
<u>AAAAD12300</u>	<u>PLETHODON TEYAHALEE</u>		<u>SOUTHERN APPALACHIAN SALAMANDER</u>	
Jeff Beane	labeled	3937, 3938, 3939, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4606, 4607, 4743		Predicted
<u>AAAAD12370</u>	<u>PLETHODON VENTRALIS</u>		<u>SOUTHERN ZIGZAG SALAMANDER</u>	
Internal Review	labeled	4067, 4335		Possible
Jeff Beane	labeled	4200, 4201, 4334		Confirmed
Palmer & Braswell	labeled	4337, 4472		Predicted
<u>AAAAD13010</u>	<u>PSEUDOTRITON MONTANUS</u>		<u>MUD SALAMANDER</u>	
Jeff Beane	labeled	1732, 1733, 1846, 1848, 1849, 1961, 1962, 1963, 1964, 2076, 2077, 2078, 2079, 2080, 2192, 2193, 2194, 2195, 3042, 3166, 3167, 3292, 3293, 3415, 3419, 3420, 3421, 3422, 3543, 3548, 3549, 3672, 3673, 3677, 3678, 3803, 3807, 3808, 3936, 3937,		Predicted
Palmer & Braswell	labeled	1184, 1292, 1293, 1294, 1402, 1403, 1513, 1514, 1515, 1625, 1627, 1628, 1629, 1630, 1731, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1847, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1965, 1966, 1967, 1969, 1970, 1971, 2075, 2081, 2082, 2083, 2084, 2085, 2086, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3168, 3170, 3289, 3290, 3291, 3294, 3295, 3416, 3418, 3544, 3545, 3546, 3547, 3674, 3675, 3676, 3804, 3805, 3806, 3934, 3938, 3939, 4070, 4071, 4203, 4204, 4336, 4337, 4338, 4472, 4473		Predicted
<u>AAAAD13020</u>	<u>PSEUDOTRITON RUBER</u>		<u>RED SALAMANDER</u>	
Jeff Beane	labeled	2193, 2310, 2311, 2429, 2430, 2548, 2549, 2791, 2792, 2799, 2914, 2915, 2921, 2922, 3038, 3040, 3041, 3045, 3046, 3165, 3166, 3167, 3170, 3292, 3549, 3678		Predicted
John Groves	labeled	2795		Confirmed
Jeff Beane	labeled	2555, 3544		Confirmed

Palmer & Braswell	labeled	1964, 1965, 2079, 2080, 2081, 2082, 2194, 2195, 2196, 2197, 2198, 2199, 2312, 2313, 2314, 2315, 2316, 2317, 2431, 2432, 2433, 2434, 2435, 2436, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2793, 2794, 2796, 2797, 2798, 2916, 2917, 2920, 3039, 3042, 3043, 3044, 3163, 3164, 3168, 3169, 3289, 3290, 3291, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3672, 3673, 3674, 3675, 3676, 3677, 3802, 3803, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
<u>AAAAD14010 STEREOCHILUS MARGINATUS</u>		<u>MANY-LINED SALAMANDER</u>	
Jeff Beane	labeled	1291	Absent
Jeff Beane	labeled	1292, 1293, 1294, 1399, 1400, 1401, 1507, 1508, 1511, 1515, 1619, 1628, 1629, 1630, 1734, 1844, 1848, 1959, 1960, 1963, 1966, 1971, 2075, 2076, 2078, 2079, 2082, 2086, 2195, 2196, 2198, 2199, 2202, 2316, 2319, 2437	Predicted
Palmer & Braswell	labeled	1288, 1398, 1402, 1403, 1506, 1510, 1512, 1617, 1618, 1620, 1622, 1623, 1624, 1625, 1626, 1627, 1730, 1731, 1732, 1733, 1735, 1736, 1737, 1738, 1739, 1740, 1845, 1846, 1847, 1849, 1850, 1851, 1852, 1853, 1961, 1962, 1964, 1965, 1967, 2077, 2080, 2081, 2084, 2085, 2197, 2201, 2315, 2317, 2318, 2435,	Predicted
<u>AAAAE01030 NECTURUS LEWISI</u>		<u>NEUSE RIVER WATERDOG</u>	
Jeff Beane	labeled	1854, 2548, 2669	Absent
John Groves	labeled	2196	Confirmed
Palmer & Braswell	labeled	1734, 2314, 2549	Predicted
<u>AAAAE01040 NECTURUS MACULOSUS</u>		<u>MUDPUPPY</u>	
Palmer & Braswell	labeled	3938, 3939, 4069, 4070	Predicted
<u>AAAAE01050 NECTURUS PUNCTATUS</u>		<u>DWARF WATERDOG</u>	
Palmer & Braswell	labeled	1403, 1513, 1514, 1623, 1624, 1625, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1740, 1741, 1742, 1845, 1846, 1847, 1848, 1849, 1850, 1852, 1853, 1854, 1856, 1960, 1961, 1963, 1964, 1965, 1967, 1968, 1970, 2076, 2078, 2079, 2080, 2081, 2082, 2084, 2194, 2195, 2198, 2199, 2200, 2201, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2432, 2433, 2434, 2435, 2436, 2437, 2549, 2551, 2552, 2553, 2554, 2797, 2798	Predicted
Jeff Beane	labeled	1627, 1739, 1969, 1971, 2085, 2086, 2202, 2557, 2677	Predicted
John Groves	labeled	2196	Confirmed
<u>AAAAF01030 NOTOPHTHALMUS VIRIDESCENS</u>		<u>EASTERN NEWT</u>	
Jeff Beane	labeled	1291	Absent
Jeff Beane	labeled	2555, 2556, 3163, 3416, 3544	Confirmed
Jeff Beane	labeled	1180, 1181, 1288, 1289, 1290, 1294, 1395, 1396, 1397, 1401, 1506, 1507, 1509, 1510, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1627, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1736, 1737, 1738, 1844, 1846, 1847, 1848, 1849, 1851, 1852, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2195, 2196, 2197, 2198, 2201, 2202, 2312, 2318, 2319, 2429, 2437, 2548, 2549, 2553, 2557, 2669, 2672, 2673, 2791, 2792, 2793, 2794, 2799, 2914, 2915, 2916, 2917, 2922, 3041, 3042, 3044, 3045, 3046, 3165, 3166, 3167, 3168, 3169, 3170, 3291, 3292, 3293, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3546, 3547, 3548, 3549, 3676, 3677, 3678, 3807, 3808, 3934, 3938, 3939, 4066, 4067, 4071, 4199, 4204, 4335, 4338, 4470, 4473, 4606, 4609,	Predicted
John Fauth	labeled	2550	Confirmed

John Groves	labeled	2796	Confirmed
Palmer & Braswell	labeled	1286, 1287, 1293, 1398, 1399, 1400, 1402, 1403, 1508, 1512, 1514, 1623, 1624, 1625, 1731, 1735, 1739, 1740, 1845, 1850, 1853, 1854, 1855, 1856, 1966, 1969, 1970, 1971, 2193, 2194, 2199, 2310, 2311, 2313, 2315, 2316, 2430, 2431, 2432, 2433, 2551, 2552, 2554, 2670, 2671, 2674, 2677, 2795, 2921, 3039, 3040, 3043, 3164, 3289, 3290, 3294, 3543, 3545, 3672, 3673, 3674, 3675, 3802, 3803, 3804, 3805, 3935, 3936, 4068, 4069, 4200, 4201, 4202, 4203, 4334, 4336, 4337, 4471, 4472, 4607,	Predicted

AAAAG02010 SIREN INTERMEDIA

LESSER SIREN

Jeff Beane	labeled	1968	Confirmed
Palmer & Braswell	labeled	1403, 1513, 1514, 1625, 1733, 1738, 1740, 1741, 1742, 1850, 1851, 1852, 1854, 1856, 1964, 1965, 1967, 1969, 1970, 2083, 2084, 2085, 2196, 2197, 2315, 2556, 2676	Predicted
Jeff Beane	labeled	1626, 1627, 1737, 1739, 1853, 1966, 1971, 2080, 2081, 2082, 2086, 2198, 2199, 2200, 2201, 2202, 2316, 2318, 2319, 2437	Predicted
John Fauth	labeled	1180, 1287, 1288, 1289, 1290, 1292, 1293, 1397, 1398, 1399, 1400, 1401, 1402, 1509, 1510, 1511, 1512, 1620, 1621, 1622, 1623, 1732, 1734, 1735, 1736, 1846, 1847, 1848, 1849, 1961, 1962, 1963, 2076, 2078, 2079, 2195, 2434, 2553, 2554, 2557,	Predicted

AAAAG02020 SIREN LACERTINA

GREATER SIREN

Jeff Beane	labeled	2436	Confirmed
Jeff Beane	labeled	1287, 1288, 1289, 1290, 1292, 1293, 1294, 1397, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1511, 1512, 1514, 1515, 1617, 1618, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1734, 1736, 1737, 1738, 1739, 1844, 1845, 1846, 1847, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 2075, 2076, 2077, 2080, 2081, 2082, 2083, 2084, 2086, 2192, 2193, 2194, 2195, 2196, 2198, 2199, 2200, 2310, 2311, 2312, 2315, 2316, 2317, 2319, 2433, 2434, 2435, 2555,	Predicted
John Groves	labeled	2202, 2318	Confirmed
Palmer & Braswell	labeled	1398, 1399, 1508, 1513, 1619, 1620, 1733, 1735, 1740, 1741, 1742, 1848, 1849, 1963, 1969, 2078, 2079, 2085, 2313, 2314, 2432, 2437, 2798	Predicted

AAABB01020 BUFO AMERICANUS

AMERICAN TOAD

John Fauth	labeled	2550	Confirmed
Palmer & Braswell	labeled	1396, 1506, 1507, 2078, 2080, 2194, 2195, 2196, 2197, 2313, 2431, 2551, 2552, 2553, 2671, 2916, 3164, 3166, 3294, 3420, 3421, 3545, 3546, 3547, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3935, 3936, 3937, 3938, 3939, 4067, 4068, 4069, 4070, 4071, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4472, 4745	Predicted
John Fauth	labeled	1286, 1395, 1508, 1617, 1618, 1619, 1620, 1621, 1730, 1731, 1732, 1733, 1734, 1844, 1845, 1846, 1847, 1959, 1960, 1961, 1963, 1964, 1965, 1967, 2075, 2076, 2079, 2081, 2082, 2192, 2193, 2198, 2199, 2310, 2311, 2312, 2315, 2316, 2317, 2429, 2430, 2434, 2435, 2436, 2548, 2549, 2554, 2555, 2556, 2557, 2669, 2675, 2676, 2677, 2798, 2799, 2920, 2921, 2922, 3045,	Predicted
Jeff Beane	labeled	2314, 2432, 3416, 3544	Confirmed
Jeff Beane	labeled	2670, 2672, 2791, 2792, 2793, 2914, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3163, 3165, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3295, 3415, 3417, 3418, 3419, 3422, 3548, 3549, 3934, 4066, 4199, 4200, 4334, 4470, 4473, 4606,	Predicted
John Groves	labeled	2673, 2674, 2794, 2795, 2796, 2917, 2919, 4471, 4607, 4608, 4743, 4744	Confirmed

<u>AAABB01130 BUFO QUERCICUS</u>		<u>OAK TOAD</u>	
Jeff Beane	labeled	1179, 2436, 2555	Confirmed
Jeff Beane	labeled	1737, 1740, 1851, 1853, 1966, 2081, 2086, 2201, 2202, 2319, 2435, 2557	Predicted
Palmer & Braswell	labeled	1289, 1290, 1293, 1398, 1399, 1400, 1403, 1508, 1509, 1512, 1513, 1514, 1619, 1622, 1624, 1625, 1627, 1731, 1733, 1734, 1738, 1739, 1741, 1742, 1845, 1850, 1852, 1854, 1855, 1856, 1962, 1965, 1969, 1970, 1971, 2078, 2079, 2082, 2083, 2084, 2085, 2197, 2198, 2199, 2200, 2315, 2316, 2317, 2433, 2437,	Predicted
<u>AAABB01160 BUFO TERRESTRIS</u>		<u>SOUTHERN TOAD</u>	
Jeff Beane	labeled	1286, 1289, 1294, 1395, 1396, 1515, 1617, 1628, 1629, 1630, 1730, 1844, 1845, 1846, 1847, 1848, 1959, 1961, 1963, 1971, 2079, 2085, 2086, 2319, 2557	Predicted
John Fauth	labeled	2555	Confirmed
Palmer & Braswell	labeled	1180, 1287, 1288, 1290, 1293, 1397, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1512, 1514, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 2077, 2080, 2081, 2082, 2084, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2317, 2433, 2434, 2435, 2437, 2553, 2554, 2556, 2677	Predicted
<u>AAABB01210 BUFO FOWLERI</u>		<u>FOWLER'S TOAD</u>	
Jeff Beane	labeled	1291	Absent
John Groves	labeled	2673, 2674, 2794, 2795, 2796, 2917, 2918, 2919	Confirmed
John Fauth	labeled	2550, 2671	Confirmed
Jeff Beane	labeled	1182, 2314, 2432, 3416	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1074, 1180, 1181, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1625, 1626, 1627, 1628, 1629, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1851, 1852, 1853, 1854, 1959, 1960, 1961, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2310, 2311, 2312, 2313, 2315, 2316, 2317, 2429, 2430, 2431, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2672, 2675, 2676, 2677, 2791, 2792, 2793, 2798, 2799, 2914, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743,	Predicted
<u>AAABC01010 ACRIS CREPITANS</u>		<u>NORTHERN CRICKET FROG</u>	
Palmer & Braswell	labeled	1733, 1846, 1847, 1848, 1962, 1963, 2078, 2079, 2080, 2193, 2194, 2195, 2196, 2197, 2311, 2312, 2313, 2314, 2315, 2429, 2430, 2431, 2433, 2434, 2435, 2549, 2550, 2551, 2552, 2554, 2555, 2671, 2675, 2676, 2797, 2798, 2916, 3040, 3043, 3044, 3165, 3168, 3291, 3293, 3294, 3418, 3419, 3420, 3421, 3806, 3937, 4069, 4070, 4203, 4608, 4745	Predicted
Jeff Beane	labeled	1967, 3544	Absent
Jeff Beane	labeled	2317, 2436, 2556, 2557	Possible

Jeff Beane	labeled	2198, 2310, 2548, 2669, 2672, 2677, 2791, 2792, 2793, 2799, 2914, 2915, 2921, 2922, 3041, 3042, 3045, 3046, 3166, 3167, 3169, 3170, 3292, 3295	Predicted
John Groves	labeled	2673, 2674, 2794, 2795, 2796, 2917, 2918	Confirmed
<u>AAABC01020 ACRIS GRYPHUS</u>		<u>SOUTHERN CRICKET FROG</u>	
Palmer & Braswell	labeled	1180, 1181, 1184, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1512, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2314,	Predicted
Jeff Beane	labeled	2675, 2677	Predicted
Jeff Beane	labeled	2310, 2311, 2312, 2313, 2432, 2433, 2552, 2553, 2673, 2674, 2796, 2798, 2799	Possible
<u>AAABC02010 HYLEA ANDERSONII</u>		<u>PINE BARRENS TREEFROG</u>	
Jeff Beane	labeled	1515, 1964, 2196, 2674	Absent
Palmer & Braswell	labeled	1514, 1626, 1627, 1737, 1738, 1739, 1851, 1852, 1853, 1966, 2081, 2084, 2197, 2198, 2200, 2315, 2316, 2317, 2434, 2435, 2553, 2554, 2557, 2675, 2677	Predicted
<u>AAABC02050 HYLEA CHRYSOSCELIS</u>		<u>COPE'S GRAY TREEFROG</u>	
Jeff Beane	labeled	1179, 2432, 2555, 3416, 3544	Confirmed
Jeff Beane	labeled	1180, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1513, 1514, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1963, 1964, 1965, 1966, 1968, 1969, 1970, 1971, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2311, 2312, 2313, 2315, 2316, 2317, 2319, 2429, 2430, 2431, 2433, 2434, 2435, 2437, 2548, 2549, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2799, 2914, 2916, 2917, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 2550	Predicted
John Fauth	labeled	2550	Confirmed
<u>AAABC02060 HYLEA CINEREA</u>		<u>GREEN TREEFROG</u>	
Jeff Beane	labeled	1294, 1509, 1515, 1617, 1618, 1620, 1621, 1623, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1844, 1845, 1846, 1847, 1848, 1849, 1852, 1959, 1961, 1962, 1963, 1966, 1967, 2075, 2076, 2080, 2084, 2086, 2195, 2196, 2199, 2200, 2202, 2316, 2434, 2435, 2554, 2557, 2675, 2798, 2799,	Predicted
John Fauth	labeled	1072, 1286, 2192, 2193, 2194, 2553, 2674, 2796, 2919, 2921, 2922, 3044, 3045	Predicted
Jeff Beane	labeled	1291	Absent

Palmer & Braswell	labeled	967, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1287, 1288, 1289, 1290, 1292, 1293, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1510, 1512, 1514, 1619, 1622, 1624, 1625, 1627, 1731, 1739, 1740, 1741, 1742, 1850, 1851, 1853, 1854, 1855, 1856, 1960, 1964, 1965, 1969, 1970, 1971, 2078, 2079, 2081, 2082, 2083, 2085, 2197, 2198, 2201, 2313, 2315, 2319, 2432, 2433, 2437, 2555, 2556, 2676	Predicted
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AAABC02090 HYL A FEMORALIS

PINE WOODS TREEFROG

Jeff Beane	labeled	2555	Confirmed
Palmer & Braswell	labeled	1180, 1184, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2318, 2319, 2434, 2435, 2437, 2552, 2553, 2554, 2556, 2557, 2673, 2675,	Predicted

AAABC02100 HYL A GRATIOSA

BARKING TREEFROG

Jeff Beane	labeled	2555	Confirmed
Jeff Beane	labeled	1971, 2086, 2202	Predicted
Palmer & Braswell	labeled	1291	Absent
Palmer & Braswell	labeled	1183, 1184, 1292, 1293, 1294, 1400, 1401, 1402, 1403, 1510, 1511, 1512, 1513, 1514, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1964, 1965, 1966, 1969, 1970, 2080, 2081, 2082, 2083, 2084, 2085, 2196, 2197, 2198, 2199, 2201, 2312, 2313, 2315, 2316, 2318, 2319, 2432, 2433, 2437, 2552, 2554, 2556, 2675, 2797	Predicted

AAABC02120 HYL A SQUIRELLA

SQUIRREL TREEFROG

Palmer & Braswell	labeled	1291	Absent
John Fauth	labeled	1286, 1395, 1396, 1506, 1617, 1618, 1619, 1730, 1731, 1732, 1844, 1845, 1846, 2312, 2552, 2553, 2557, 2672, 2673, 2674, 2677, 2793, 2794, 2796, 2798, 2799, 2922, 3046, 3170	Predicted
Jeff Beane	labeled	967, 1074, 1180, 1181, 1184, 1287, 1288, 1294, 1397, 1515, 1628, 1629, 1630, 1847, 1963, 1964, 2078, 2079, 2080, 2085, 2086, 2200, 2202, 2317, 2318, 2435, 2437	Predicted
Jeff Beane	labeled	2791, 2792	Absent
Palmer & Braswell	labeled	1072, 1073, 1182, 1183, 1289, 1290, 1293, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1620, 1621, 1622, 1623, 1624, 1627, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2081, 2082, 2083, 2084, 2194, 2195, 2196, 2197, 2198, 2199, 2201, 2314, 2315, 2316, 2319, 2432, 2433, 2434, 2554, 2555, 2556, 2675, 2676, 2916, 2921, 3044, 3045	Predicted

AAABC02130 HYL A VERSICOLOR

GRAY TREEFROG

Jeff Beane	labeled	1617, 1730, 1844, 1959, 2075, 2192, 2429, 2548, 2549, 2669, 2670, 2791, 2792, 2914, 3038, 3163, 3289, 3415, 3416, 3543, 3544, 3672, 3673, 3802	Possible
Palmer & Braswell	labeled	2310	Predicted

AAABC05020 PSEUDACRIS BRIMLEYI

BRIMLEY'S CHORUS FROG

Jeff Beane	labeled	2553, 2554, 2674, 2675, 2796, 2797	Absent
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Palmer & Braswell	labeled	1179, 1288, 1290, 1395, 1396, 1399, 1402, 1403, 1506, 1507, 1510, 1512, 1513, 1618, 1619, 1622, 1623, 1624, 1732, 1733, 1735, 1736, 1848, 1849, 1852, 1853, 1962, 1963, 1967, 2082, 2083, 2196, 2197, 2198, 2199, 2202, 2315, 2316, 2556	Predicted
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AAABC05040 PSEUDACRIS NIGRITA **SOUTHERN CHORUS FROG**

Palmer & Braswell	labeled	1183, 1184, 1292, 1293, 1294, 1401, 1402, 1403, 1510, 1512, 1513, 1514, 1515, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2196, 2197, 2198, 2199, 2201, 2202, 2316, 2319, 2435, 2555, 2557	Predicted
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Palmer & Braswell	labeled	1291	Absent
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AAABC05050 PSEUDACRIS ORNATA **ORNATE CHORUS FROG**

Jeff Beane	labeled	1510, 1511, 1621	Possible
Palmer & Braswell	labeled	1403, 1513, 1515, 1622, 1625, 1626, 1628, 1629, 1630, 1741, 1742, 1853, 1854, 1967, 1968, 1969, 2082, 2084, 2199, 2316, 2435, 2437, 2555, 2556	Predicted

AAABC05070 PSEUDACRIS TRISERIATA **UPLAND CHORUS FROG**

Jeff Beane	labeled	3543, 3544, 3672, 3673, 3674, 3802, 3803, 3804, 3934, 3935, 4066, 4067, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Absent
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Jeff Beane	labeled	3290	Confirmed
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Jeff Beane	labeled	1853, 1965, 1966, 1967, 1968, 2079, 2080, 2081, 2082, 2083, 2084, 2193, 2195, 2196, 2197, 2199, 2200, 2201, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2434, 2435, 2436, 2437, 2548, 2549, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3291, 3292, 3293, 3294, 3295, 3419	Predicted
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John Fauth	labeled	2550, 2671	Confirmed
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Palmer & Braswell	labeled	1732, 1733, 1735, 1846, 1848, 1849, 1854, 1961, 1962, 1963, 1969, 2077, 2078	Predicted
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AAABC05090 PSEUDACRIS CRUCIFER **SPRING PEEPER**

John Fauth	labeled	2550, 2671	Confirmed
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Palmer & Braswell	labeled	1286, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1514, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2316, 2317, 2319, 2429, 2430, 2431, 2434, 2435, 2437, 2548, 2549, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2672, 2675, 2676, 2677, 2791, 2792, 2793, 2798, 2799, 2914, 2916, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743	Predicted
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Jeff Beane	labeled	1180, 1181	Predicted
Jeff Beane	labeled	1179, 1287	Possible
Jeff Beane	labeled	2314, 2555, 3416, 3544	Confirmed
John Groves	labeled	2673, 2674, 2794, 2795, 2796, 2917, 2918, 2919	Confirmed

AAABC05110 PSEUDACRIS OCULARIS **LITTLE GRASS FROG**

Jeff Beane	labeled	1845, 1847, 1959, 1960, 1961, 1962, 2075, 2076, 2077, 2078, 2192, 2195, 2553, 2554, 2674, 2675, 2676, 2677, 2796, 2797	Absent
John Fauth	labeled	967, 1072, 1073, 1074, 1181, 1182, 1183	Predicted
Palmer & Braswell	labeled	1180, 1184, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1846, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 1971, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2318, 2319,	Predicted

AAABE01010 GASTROPHRYNE CAROLINENSIS **EASTERN NARROWMOUTH TOAD**

Palmer & Braswell	labeled	1291	Absent
Palmer & Braswell	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1512, 1513, 1514, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2312, 2313, 2315, 2316, 2318, 2319, 2430, 2431, 2432, 2434, 2435, 2437, 2551, 2552, 2553, 2554, 2556, 2557, 2673, 2674, 2675, 2677, 2794, 2796, 2798, 2799, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3043, 3044, 3045, 3046, 3168, 3169, 3170, 3293, 3294, 3295	Predicted
John Groves	labeled	2795	Confirmed
John Fauth	labeled	2550	Confirmed
Jeff Beane	labeled	1179, 1968, 2314, 2555, 2676	Confirmed

AAABF01040 SCAPHIOPUS HOLBROOKII **EASTERN SPADEFOOT**

Jeff Beane	labeled	2676	Confirmed
Jeff Beane	labeled	2429, 2430, 2549	Possible
Jeff Beane	labeled	2431, 2551	Predicted
John Fauth	labeled	2550	Possible
Palmer & Braswell	labeled	1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2201, 2202, 2310, 2311, 2312, 2313, 2315, 2316, 2319, 2432, 2433, 2434, 2552, 2554, 2557, 2675, 2677, 2796, 2797, 2798, 2919, 2920, 3043, 3044, 3168, 3169, 3938, 3939, 4070, 4071, 4608	Predicted
Jeff Beane	labeled	2917	Absent

AAABH01070 RANA CATESBEIANA**BULLFROG**

Jeff Beane	labeled	1968, 2432, 2555, 2676, 3416	Confirmed
Palmer & Braswell	labeled	967, 1073, 1074, 1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1963, 1964, 1965, 1966, 1969, 1971, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2315, 2318, 2319, 2429, 2430, 2433, 2434, 2437, 2548, 2552, 2554, 2556, 2557, 2669, 2670, 2673, 2674, 2677, 2791, 2792, 2793, 2794, 2798, 2799, 2914, 2916, 2917, 2918, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3046, 3163, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3804, 3805, 3806, 3807, 3808, 3934, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4473, 4606, 2795	Predicted
John Groves	labeled	2795	Confirmed
John Fauth	labeled	2550, 2551, 2671	Confirmed
Jeff Beane	labeled	1291	Absent
Chuck Peoples	labeled	1960, 1961, 2075, 2076, 2192	Confirmed
John Fauth	labeled	1072, 1182, 1183, 1184	Predicted

AAABH01090 RANA CLAMITANS**GREEN FROG**

Jeff Beane	labeled	1291	Absent
Jeff Beane	labeled	2314, 3544	Confirmed
John Groves	labeled	2674, 2917, 2918	Confirmed
Palmer & Braswell	labeled	1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1961, 1963, 1964, 1965, 1966, 1967, 1969, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2313, 2315, 2316, 2317, 2318, 2319, 2429, 2432, 2434, 2437, 2548, 2549, 2551, 2552, 2553, 2556, 2557, 2669, 2671, 2672, 2673, 2677, 2791, 2792, 2793, 2794, 2798, 2799, 2914, 2915, 2916, 2919, 2920, 2921, 2922, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745,	Predicted

AAABH01160 RANA PALUSTRIS**PICKEREL FROG**

Jeff Beane	labeled	2799, 2922, 3046, 3170, 4470, 4471, 4606	Predicted
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Palmer & Braswell	labeled	1400, 1401, 1402, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1618, 1619, 1620, 1621, 1622, 1623, 1625, 1627, 1628, 1730, 1731, 1732, 1733, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2434, 2435, 2436, 2437, 2548, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2677, 2791, 2792, 2793, 2794, 2914, 2916, 2917, 2921, 3038, 3040, 3041, 3042, 3043, 3044, 3045, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3289, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4472, 4473, 4607, 4608, 4609, 4743, 4744, 4745, 2550	Predicted
John Fauth	labeled		Confirmed
Jeff Beane	labeled	2314, 3544	Confirmed
John Groves	labeled	2795	Confirmed

AAABH01200 RANA SYLVATICA

WOOD FROG

Chris McGrath	labeled	3937, 4068	Confirmed
Jeff Beane	labeled	1400, 3422	Absent
Jeff Beane	labeled	1397, 1399, 3544, 3938	Confirmed
John Fauth	labeled	3549, 3678, 4202, 4335, 4336, 4470, 4606	Confirmed
Palmer & Braswell	labeled	3163, 3289, 3415, 3417, 3418, 3545, 3546, 3547, 3548, 3672, 3673, 3674, 3675, 3676, 3677, 3802, 3803, 3804, 3806, 3807, 3808, 3934, 3935, 3936, 3939, 4066, 4067, 4069, 4070, 4071, 4199, 4200, 4201, 4203, 4204, 4334, 4338, 4471, 4472, 4473, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted

AAABH01220 RANA SPHENOCEPHALA

SOUTHERN LEOPARD FROG

Jeff Beane	labeled	2555, 2556, 2676, 2677	Confirmed
Palmer & Braswell	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1510, 1512, 1514, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1736, 1737, 1738, 1739, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2202, 2310, 2311, 2312, 2313, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2437, 2548, 2549, 2551, 2552, 2553, 2554, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2793, 2794, 2799, 2916, 2921, 2922, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3165, 3166, 3167, 3168, 3169, 3170, 3292, 3293, 3294, 3295, 3419, 3420, 3421, 3422, 3548, 3549	Predicted
Palmer & Braswell	labeled	1291	Absent
John Groves	labeled	2795	Confirmed
John Fauth	labeled	2550	Confirmed

AAABH01230 RANA VIRGATIPES

CARPENTER FROG

Jeff Beane	labeled	2553, 2674	Absent
Jeff Beane	labeled	1968	Confirmed
Jeff Beane	labeled	1179	Possible

Jeff Beane	labeled	1970, 1971, 2086	Predicted
Palmer & Braswell	labeled	1180, 1184, 1286, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1398, 1399, 1400, 1401, 1402, 1506, 1509, 1510, 1511, 1512, 1514, 1515, 1617, 1618, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1738, 1740, 1741, 1742, 1844, 1845, 1853, 1855, 1856, 1967, 1969, 2082, 2084, 2085, 2198, 2199, 2201, 2202, 2315, 2316, 2317, 2318, 2319, 2434, 2435, 2437, 2554, 2556, 2557, 2675, 2676, 2677	Predicted
<u>AAABH01270 RANA CAPITO</u>			<u>GOPHER FROG</u>
John Fauth	labeled	2434, 2554, 2675	Possible
Palmer & Braswell	labeled	1513, 1515, 1622, 1625, 1627, 1628, 1629, 1630, 1739, 1853, 1854, 1968, 1969, 2084, 2086, 2200	Predicted
John Fauth	labeled	1183, 1184, 1291, 1292, 1293, 1294, 1401, 1402, 1511, 1512, 1623, 1624, 1736, 1737, 1851, 2081, 2085, 2198, 2201, 2202,	Absent
<u>ABNCA02010 PODILYMBUS PODICEPS</u>			<u>PIED-BILLED GREBE</u>
Harry LeGrand	labeled	2432, 2552, 2553, 2672, 2673, 2794, 2916	Excluded
Internal Review	labeled	1291	Possible
Lamar Gore	labeled	1509	Confirmed
David Allen	labeled	1292	Confirmed
<u>ABNFC01020 PELECANUS OCCIDENTALIS</u>			<u>BROWN PELICAN</u>
Internal Review	labeled	1291	Possible
Walker Golder	labeled	1630	Predicted
Walker Golder	labeled	1072, 1074, 1180, 1182, 1184, 1287, 1293, 1294, 1627, 1628, 1741, 1971	Confirmed
Walker Golder	labeled	1738, 1739, 1853, 1854	Absent
Lamar Gore	labeled	1395	Confirmed
Harry LeGrand	labeled	1289, 1399, 1625	Excluded
Harry LeGrand	labeled	1855	Absent
David Allen	labeled	1181, 1290, 1397, 1401, 1508, 1626, 1740	Confirmed
John Groves	labeled	1629	Confirmed
<u>ABNFD01020 PHALACROCORAX AURITUS</u>			<u>DOUBLE-CRESTED CORMORANT</u>
Walker Golder	labeled	1741	Confirmed
David Allen	labeled	967, 1073, 1074, 1180, 1181, 1182, 1183, 1290, 1292, 1293, 1401, 1402, 1403, 1508, 1515, 1619, 1620, 1626	Confirmed
Harry LeGrand	labeled	2195, 2313	Excluded
Harry LeGrand	labeled	1072, 1397, 1856, 1969, 1971, 2085	Predicted
Internal Review	labeled	1291	Confirmed
<u>ABNFE01010 ANHINGA ANHINGA</u>			<u>ANHINGA</u>
Internal Review	labeled	1291	Possible
David Allen	labeled	2196	Confirmed
Harry LeGrand	labeled	1730, 1844, 1848, 1849, 1850, 1851, 1852, 1959, 1962, 1965, 1966, 1967, 2075, 2077, 2081, 2082, 2198, 2316, 2435, 2436,	Absent
<u>ABNGA01020 BOTAURUS LENTIGINOSUS</u>			<u>AMERICAN BITTERN</u>
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1179, 1180, 1286	Absent
Harry LeGrand	labeled	2314	Excluded

JohnAnn Shearer	labeled	1291	Absent
JohnAnn Shearer	labeled	1074, 1181, 1182, 1183, 1289, 1290, 1399, 1400, 1510	Predicted
<u>ABNGA02010 IXOBRYCHUS EXILIS</u>		<u>LEAST BITTERN</u>	
Harry LeGrand	labeled	2193, 2194, 2310, 2311, 2312, 2313, 2314, 2315, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170,	Possible
Walker Golder	labeled	1401	Predicted
Walker Golder	labeled	1742	Confirmed
Harry LeGrand	labeled	967, 1074, 1181, 1286, 1287, 1289, 1292, 1293, 1396, 1399, 1400, 1402, 1403, 1506, 1512, 1513, 1514, 1515, 1625, 1626, 1627, 1628, 1629, 1856, 1971	Predicted
John Groves	labeled	1290	Confirmed
<u>ABNGA04010 ARDEA HERODIAS</u>		<u>GREAT BLUE HERON</u>	
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
David Allen	labeled	1288, 1289, 1399, 1401, 1403, 1508, 1514, 1620, 1621, 1624, 1625, 1626, 1737, 1965, 1967, 2077, 2201, 2202, 2317, 3042,	Confirmed
Harry LeGrand	labeled	2195, 2429, 2431, 2550, 2671, 2793	Confirmed
Walker Golder	labeled	1290, 1628, 1733, 1740, 1741, 1742, 1845, 1846, 1847, 1851, 1960, 1961, 1966, 1970, 2076, 2085, 2200, 2319	Confirmed
Walker Golder	labeled	2075	Predicted
<u>ABNGA04040 ARDEA ALBA</u>		<u>GREAT EGRET</u>	
Harry LeGrand	labeled	1733, 2317	Confirmed
Walker Golder	labeled	1400, 1401, 1402, 1511, 1627, 2075, 2202	Predicted
Walker Golder	labeled	1072, 1179, 1286, 1620, 1628, 1731, 1740, 1960, 1961, 1966, 1969, 1970, 2076, 2085	Confirmed
Harry LeGrand	labeled	1730, 1732, 1735, 1848, 1849, 1850, 1852, 1967, 2082, 2083, 2199, 2200, 2318, 2436, 2437	Possible
David Allen	labeled	1074, 1182, 1183, 1292, 1293, 1403, 1621, 1626, 1734, 1844, 1845, 1846, 1847, 1851, 1968, 2077, 2084, 2196, 2201, 2319	Confirmed
Internal Review	labeled	1959	Possible
<u>ABNGA06030 EGRETIA THULA</u>		<u>SNOWY EGRET</u>	
David Allen	labeled	2317	Confirmed
Harry LeGrand	labeled	2318	Predicted
Walker Golder	labeled	1401, 1628, 1740, 1741	Predicted
<u>ABNGA06040 EGRETIA CAERULEA</u>		<u>LITTLE BLUE HERON</u>	
Harry LeGrand	labeled	1401, 2085, 2086, 2201, 2202	Possible
Harry LeGrand	labeled	2318	Predicted
Walker Golder	labeled	1286, 1741	Confirmed
David Allen	labeled	1180, 1181, 1290, 1515, 1626, 1627, 1628, 1629, 1740	Confirmed
<u>ABNGA06050 EGRETIA TRICOLOR</u>		<u>TRICOLORED HERON</u>	
Harry LeGrand	labeled	1396, 1401	Possible
Walker Golder	labeled	1286, 1287, 1628, 1740, 1741	Confirmed

Walker Golder	labeled	1627, 1971	Predicted
<u>ABNGA07010 BUBULCUS IBIS</u>		<u>CATTLE EGRET</u>	
Walker Golder	labeled	1074, 1182, 1741	Confirmed
Walker Golder	labeled	1855, 1856	Predicted
Harry LeGrand	labeled	1851, 1966, 1968, 1969, 1970, 2082, 2083, 2084, 2085, 2086, 2199, 2200, 2202, 2319	Possible
Harry LeGrand	labeled	2317, 2318	Confirmed
David Allen	labeled	1183, 1292, 2201	Confirmed
<u>ABNGA08010 BUTORIDES VIRESCENS</u>		<u>GREEN HERON</u>	
David Allen	labeled	1293, 1403, 1624, 1626	Confirmed
Harry LeGrand	labeled	1180, 1290, 1292, 1513, 1625, 1737, 1739, 1844, 1851, 1852, 1853, 1959, 2075, 2084, 2086, 2200, 2201, 2202, 2317, 2319, 2429, 2436, 2548, 2549, 2555, 2556, 2557, 2669, 2670, 2676, 2677, 2791, 2792, 2799, 2914, 2922, 3038, 3046, 3163, 3289, 3291, 3292, 3293, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3547, 3675, 3676, 3802, 3803, 3804, 3805, 3934, 3935, 4066, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606,	Predicted
John Groves	labeled	2318	Confirmed
Walker Golder	labeled	1074, 1182, 1627, 1628, 1740, 1742, 1854	Confirmed
Walker Golder	labeled	1072, 1073	Predicted
Cynthia Britton	labeled	1617, 1730	Confirmed
<u>ABNGA11010 NYCTICORAX NYCTICORAX</u>		<u>BLACK-CROWNED NIGHT-HERON</u>	
Walker Golder	labeled	1294, 1628, 1629, 1630	Absent
Walker Golder	labeled	1072, 1073, 1293, 1741	Confirmed
Harry LeGrand	labeled	1617, 1618, 1623, 1736, 1737, 1738, 1739, 1846, 1853, 1855	Absent
David Allen	labeled	1074, 1182, 1183, 1292, 1514, 1742	Confirmed
Harry LeGrand	labeled	1286, 1287, 1395, 1396, 1626, 1856, 1971	Predicted
<u>ABNGA13010 NYCTANASSA VIOLACEA</u>		<u>YELLOW-CROWNED NIGHT-HERON</u>	
Walker Golder	labeled	1182	Confirmed
David Allen	labeled	1074, 1733, 1742	Confirmed
Walker Golder	labeled	1969, 1970	Predicted
Lamar Gore	labeled	1731	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1181, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1402, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1732, 1740, 1846, 1847, 1855, 1856,	Predicted
Harry LeGrand	labeled	1730, 1734, 1844, 1845, 1848, 1849, 1850, 1851, 1852, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3044, 3045, 3046, 3166, 3167, 3168, 3170, 3292, 3293, 3295, 3420,	Possible
Harry LeGrand	labeled	3549	Excluded

Harry LeGrand	labeled	1179, 1741, 2551, 3169	Confirmed
Harry LeGrand	labeled	3543	Absent

ABNGE01010 EUDOCIMUS ALBUS **WHITE IBIS**

Harry LeGrand	labeled	1742	Confirmed
Harry LeGrand	labeled	1286, 1396, 1506	Possible
Harry LeGrand	labeled	1287	Predicted
Lamar Gore	labeled	1395	Confirmed
Walker Golder	labeled	1072, 1179, 1183, 1292, 1403, 1628, 1740, 1741, 1855, 1969,	Confirmed
Walker Golder	labeled	1971, 2085	Predicted
David Allen	labeled	1074, 1182, 1293	Confirmed

ABNGE02010 PLEGADIS FALCINELLUS **GLOSSY IBIS**

Harry LeGrand	labeled	1396, 1401, 1402	Possible
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ABNJB05030 BRANTA CANADENSIS **CANADA GOOSE**

JohnAnn Shearer	labeled	1181, 1289, 1290, 1400, 1510	Predicted
John Gerwin	labeled	1959, 1960, 2671, 2792	Confirmed
David Allen	labeled	1073, 1074, 1179, 1182, 1183, 1292, 1293, 1403, 1742	Confirmed
Internal Review	labeled	1291	Possible

ABNJB09010 AIX SPONSA **WOOD DUCK**

Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	1179, 1180, 1181, 1288, 1290, 1293, 1403, 1513, 1514, 1515, 1625, 1626, 1627, 1628, 1629, 1737, 1844, 1851, 1856, 1959, 1962, 1965, 1966, 1967, 2075, 2077, 2078, 2080, 2081, 2082, 2083, 2084, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2200, 2201, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3166, 3167, 3168, 3169, 3170, 3289, 3291, 3292, 3293, 3294, 3295, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3544, 3545, 3547, 3548, 3549, 3674, 3675, 3676, 3677, 3678, 3805, 3806	Predicted
Walker Golder	labeled	1740, 1742, 1970	Confirmed

ABNJB10040 ANAS RUBRIPES **AMERICAN BLACK DUCK**

Walker Golder	labeled	1294, 1628, 1629, 1630	Absent
Walker Golder	labeled	1072, 1180, 1181, 1290	Confirmed
Harry LeGrand	labeled	1184, 1287, 1288, 1289, 1397, 1398, 1399, 2432	Predicted
Harry LeGrand	labeled	1291	Possible
Harry LeGrand	labeled	3421, 4071	Excluded
Harry LeGrand	labeled	1179	Confirmed
David Allen	labeled	1073, 1074, 1182, 1183, 1292, 1293, 1403, 1626, 1742, 2196	Confirmed

ABNJB10130 ANAS DISCORS **BLUE-WINGED TEAL**

Harry LeGrand	labeled	967, 1181, 1182, 1183, 1184, 1286, 1289, 1290, 1291, 1292, 1293, 1395, 1396, 1400, 1402, 1403, 1513, 1515	Possible
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ABNJB10160 ANAS STREPERA **GADWALL**

Harry LeGrand	labeled	1396	Absent
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Harry LeGrand	labeled	1182, 1183, 1293, 1402	Possible
Harry LeGrand	labeled	1292, 1401	Predicted
Internal Review	labeled	1291	Possible

ABNJB20010 LOPHODYTES CUCULLATUS

HOODED MERGANSER

David Allen	labeled	2083, 2196	Confirmed
Harry LeGrand	labeled	4071	Predicted

ABNKA01010 CORAGYPS ATRATUS

BLACK VULTURE

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294	Absent
John Groves	labeled	1289, 1290, 2318, 2671, 2792, 3167, 3292, 3419, 3546	Confirmed
John Gerwin	labeled	4203, 4204, 4336, 4337, 4338, 4471, 4472	Possible
Harry LeGrand	labeled	4068, 4200, 4473, 4607, 4608, 4609, 4743, 4882	Possible
Harry LeGrand	labeled	1180, 1181, 1286, 1287, 1288, 1292, 1293, 1396, 1397, 1398, 1399, 1400, 1401, 1403, 1507, 1511, 1512, 1513, 1514, 1515, 1617, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1734, 1735, 1736, 1737, 1739, 1740, 1742, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 2075, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2194, 2196, 2197, 2198, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2316, 2317, 2319, 2429, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2672, 2674, 2675, 2676, 2677, 2791, 2793, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2918, 2919, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3170, 3289, 3290, 3291, 3295, 3415, 3416, 3417, 3418, 3420, 3422, 3543, 3544, 3545, 3547, 3548, 3673, 3675, 3676, 3677, 3803,	Predicted

ABNKA02010 CATHARTES AURA

TURKEY VULTURE

Harry LeGrand	labeled	1291	Absent
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1515, 1628, 1629, 1630	Possible
Harry LeGrand	labeled	1179, 1180, 1181, 1286, 1287, 1288, 1293, 1397, 1400, 1403, 1513, 1617, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1730, 1732, 1737, 1845, 1846, 1847, 1849, 1850, 1851, 1853, 1856, 1959, 1960, 1962, 1963, 1966, 1970, 2075, 2077, 2078, 2080, 2081, 2084, 2086, 2192, 2194, 2197, 2198, 2200, 2201, 2202, 2311, 2312, 2313, 2315, 2316, 2319, 2429, 2433, 2435, 2437, 2548, 2549, 2550, 2554, 2556, 2557, 2669, 2674, 2675, 2676, 2677, 2791, 2914, 2915, 2918, 2922, 3040, 3041, 3043, 3045, 3046, 3164, 3166, 3167, 3170, 3289, 3291, 3292, 3293, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3422, 3675, 3676, 3677, 3805, 3934, 4066, 4067, 4069, 4199, 4200, 4201, 4202, 4204, 4334, 4337, 4338, 4470, 4471, 4473, 4606, 4609, 4743, 4744, 4882	Predicted
John Groves	labeled	1290, 2318, 2670, 2792	Confirmed
Walker Golder	labeled	1742	Confirmed

ABNKC01010 PANDION HALIAETUS

OSPREY

Harry LeGrand	labeled	1959, 1960, 1961, 1962, 1963, 1964, 2075, 2076, 2077, 2078, 2079, 2080, 2193, 2194, 2195, 2197, 2201, 2311, 2312, 2315, 2316, 2317, 2318, 2319, 2430, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2674, 2675, 2676, 2677, 2791, 2792, 2796, 2797, 2798, 2799, 2914, 2920, 2921, 2922, 3038, 3044, 3045, 3046, 3163,	Possible
Wib Owen	labeled	2429	Confirmed
Walker Golder	labeled	1182, 1290, 1400, 1515, 1620, 1626, 1627, 1628, 1630, 1740	Confirmed
John Groves	labeled	1622	Confirmed

John Gerwin	labeled	2192, 2310	Predicted
Harry LeGrand	labeled	1621, 1971, 2431, 3289, 3293, 3294	Predicted
David Allen	labeled	2196	Possible
Internal Review	labeled	1291	Possible
<u>ABNKC09010 ICTINIA MISSISSIPPIENSIS</u>		<u>MISSISSIPPI KITE</u>	
Harry LeGrand	labeled	2434, 2435	Absent
Harry LeGrand	labeled	1854, 1964, 1965, 1968, 2083, 2084, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2317, 2318, 2319, 2436, 2676, 2677	Possible
Harry LeGrand	labeled	1960, 1961	Predicted
<u>ABNKC10010 HALIAEETUS LEUCOCEPHALUS</u>		<u>BALD EAGLE</u>	
David Allen	labeled	1290, 1395, 1396, 1399, 1400, 1511, 1512, 1626, 1736, 1848, 1850, 2079, 2431, 2433, 2552, 2797, 2798, 2916	Confirmed
Harry LeGrand	labeled	1398, 1509, 1513, 1619, 1620, 1621, 2310, 2429, 2676, 2919, 3042, 3295, 3805	Confirmed
Wib Owen	labeled	2195, 2312, 2313	Confirmed
<u>ABNKC11010 CIRCUS CYANEUS</u>		<u>NORTHERN HARRIER</u>	
Harry LeGrand	labeled	1854	Excluded
<u>ABNKC12040 ACCIPITER COOPERII</u>		<u>COOPER'S HAWK</u>	
Harry LeGrand	labeled	1397, 1512, 1617, 1626, 1741, 1971	Absent
Harry LeGrand	labeled	1507, 1509, 1510, 1511, 1621, 1622, 1623, 1624, 1625, 1735, 1736, 1737, 1738, 1739, 1740, 1849, 1850, 1851, 1852, 1853, 1855, 1970, 2081, 2082, 2083, 2084, 2086, 2198, 2199, 2200, 2201, 2202, 2316, 2317, 2318, 2319, 2435, 2436, 2437, 2556,	Possible
Harry LeGrand	labeled	2075, 2076, 2192, 2193, 2194, 2310, 2311, 2312, 2429, 2430, 2431, 2434, 2548, 2549, 2550, 2669, 2670, 2671, 2791, 2792, 2796, 2797, 2798, 2799, 2914, 2915, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3166, 3167, 3168, 3169, 3170, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3549, 3672, 3675, 3676, 3802, 3934, 4066, 4067, 4199, 4200, 4204, 4336, 4337, 4338, 4471, 4472, 4473, 4606, 4609,	Predicted
<u>ABNKC19030 BUTEO LINEATUS</u>		<u>RED-SHOULDERED HAWK</u>	
John Gerwin	labeled	1624, 1850	Confirmed
John Groves	labeled	1959, 2671, 2792, 3167, 3293, 3419	Confirmed
Harry LeGrand	labeled	1180, 1287, 1288, 1293, 1403, 1742, 1845, 1846, 1856, 1960, 2075, 2076, 2077, 2078, 2079, 2080, 2086, 2194, 2196, 2201, 2202, 2311, 2312, 2319, 2429, 2548, 2549, 2669, 2670, 2791, 2797, 2914, 2919, 2920, 3038, 3041, 3042, 3043, 3163, 3166, 3289, 3290, 3291, 3292, 3416, 3418, 3420, 3547, 3548, 3677,	Predicted
Harry LeGrand	labeled	3673, 3806, 4338, 4472, 4473, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Possible
Cynthia Britton	labeled	1617, 1730	Confirmed
<u>ABNKC19050 BUTEO PLATYPTERUS</u>		<u>BROAD-WINGED HAWK</u>	
Harry LeGrand	labeled	2311, 2429, 2430, 2431, 2548, 2549, 2550, 2552, 2553, 2669, 2671, 2672, 2673, 2674, 2791, 2792, 2799, 2914, 2922, 3043, 3044, 3046, 3166, 3167, 3168, 3293, 3295, 3420, 3421, 3422, 3548, 4066, 4199, 4334, 4338, 4473, 4606, 4609, 4743, 4882	Predicted
John Groves	labeled	2670, 3169, 3419	Confirmed
Harry LeGrand	labeled	1736, 1737, 1970, 2086, 2202	Possible

<u>ABNKC19110 BUTEO JAMAICENSIS</u>		<u>RED-TAILED HAWK</u>	
Harry LeGrand	labeled	1289, 1293, 1403, 1513, 1624, 1627, 1737, 1738, 1742, 1851, 1856, 2548, 2669, 2791, 2914, 3546, 3676, 3805, 4066, 4199, 4200, 4201, 4334, 4335, 4338, 4470, 4473, 4606, 4609, 4743,	Predicted
John Gerwin	labeled	3935	Confirmed
John Groves	labeled	1290, 2549, 2670, 2792, 3418, 3419	Confirmed
<u>ABNKD06020 FALCO SPARVERIUS</u>		<u>AMERICAN KESTREL</u>	
John Gerwin	labeled	2317, 2435, 2555, 2919, 3041, 3042, 3169, 3290, 3293, 3294, 3419, 3421, 3546	Confirmed
Chris McGrath	labeled	4069	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1179, 1181, 1182, 1183, 1184, 1286, 1291, 1294, 1395, 1515, 1628, 1629, 1630	Absent
<u>ABNKD06070 FALCO PEREGRINUS</u>		<u>PEREGRINE FALCON</u>	
Harry LeGrand	labeled	3163, 3164, 3415, 3543, 3672, 3673, 3802, 3803, 3934, 4066, 4199, 4334, 4335, 4336, 4470, 4471, 4606, 4743	Possible
Chris McGrath	labeled	3806, 3935, 3938, 4068, 4071	Predicted
Chris McGrath	labeled	4607, 4608, 4744, 4745	Possible
<u>ABNLC07010 PHASIANUS COLCHICUS</u>		<u>RING-NECKED PHEASANT</u>	
Harry LeGrand	labeled	1180, 1181, 1288, 1289, 1290, 1399, 1400	Absent
Harry LeGrand	labeled	1182, 1183, 1184, 1293	Confirmed
<u>ABNLC11010 BONASA UMBELLUS</u>		<u>RUFFED GROUSE</u>	
Harry LeGrand	labeled	3415, 4338, 4473, 4606, 4609, 4743, 4745, 4882	Predicted
John Gerwin	labeled	3546, 3675	Predicted
<u>ABNLC14010 MELEAGRIS GALLOPAVO</u>		<u>WILD TURKEY</u>	
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	1507, 1509, 1619, 1620, 1621, 1622, 1731, 1732, 1734, 1735, 1736, 1737, 1738, 1739, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2086, 2192, 2193, 2194, 2195, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2794, 2796, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3544, 3545, 3546, 3547, 3548, 3549, 3673, 3674, 3675, 3676, 3677, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 4066, 4067, 4068, 4069, 4199, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472,	Predicted
<u>ABNLC21020 COLINUS VIRGINIANUS</u>		<u>NORTHERN BOBWHITE</u>	
Harry LeGrand	labeled	2548, 2669, 2791, 2914, 3802, 3803, 3934, 4066, 4199, 4202, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4744, 4882	Predicted
John Gerwin	labeled	2792, 3291, 3292	Confirmed
Cynthia Britton	labeled	1617, 1730	Confirmed
John Groves	labeled	2549, 2670	Confirmed

ABNME03040 LATERALLUS JAMAICENSIS

Harry LeGrand	labeled	1182
Harry LeGrand	labeled	1506, 1628, 1629, 1630, 1740, 1741, 1742, 1856, 1971
Harry LeGrand	labeled	1074, 1181, 1183, 1395

BLACK RAIL

Confirmed
Possible
Predicted

ABNME05010 RALLUS LONGIROSTRIS

John Groves	labeled	1289
Walker Golder	labeled	1072, 1073, 1074
Walker Golder	labeled	1182, 1183, 1627, 1628, 1740, 1741, 1856
David Allen	labeled	1395
Walker Golder	labeled	1294, 1630
Harry LeGrand	labeled	967, 1184, 1286, 1287, 1288, 1400, 1401, 1510, 1511, 1512, 1513, 1515
Harry LeGrand	labeled	1397, 1398, 1624
Harry LeGrand	labeled	1291, 1738, 1739, 1853, 1855
John Gerwin	labeled	1399, 1626
Harry LeGrand	labeled	1179, 1180, 1181, 1290

CLAPPER RAIL

Confirmed
Predicted
Confirmed
Confirmed
Absent
Predicted
Possible
Absent
Predicted
Confirmed

ABNME05020 RALLUS ELEGANS

Harry LeGrand	labeled	2429, 2430, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3166, 3167, 3169, 3170,
Harry LeGrand	labeled	1074, 1179, 1180, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1396, 1397, 1398, 1400, 1401, 1402, 1507, 1508, 1509, 1510, 1512, 1513, 1514, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1731, 1740, 1742, 1854, 1856

KING RAIL

Possible
Predicted

ABNME05030 RALLUS LIMICOLA

Harry LeGrand	labeled	1856, 1971
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1288, 1289, 1290, 1293, 1400, 1401, 1402, 1506
Harry LeGrand	labeled	1291
David Allen	labeled	1292, 1742

VIRGINIA RAIL

Possible
Predicted
Absent
Confirmed

ABNME13010 GALLINULA CHLOROPUS

Harry LeGrand	labeled	1179, 1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1396, 1399, 1400, 1401, 1402, 1506, 1512, 1513, 1514, 1624, 1625, 1626, 1742, 1856
Harry LeGrand	labeled	1074

COMMON MOORHEN

Predicted
Confirmed

ABNNB03040 CHARADRIUS WILSONIA

David Allen	labeled	1292, 1626, 1628, 1740
Harry LeGrand	labeled	1180, 1181, 1288, 1289, 1290, 1291, 1399, 1400, 1506, 1625, 1738, 1739, 1853, 1854, 1855
Harry LeGrand	labeled	1182, 1183, 1741, 1742, 1856, 1971
Harry LeGrand	labeled	967, 1074, 1184, 1629, 1630

WILSON'S PLOVER

Confirmed
Absent
Confirmed
Predicted

ABNNB03070 CHARADRIUS MELODUS

Harry LeGrand	labeled	1180, 1181, 1288, 1289, 1290, 1291, 1399, 1400, 1506, 1625, 1738, 1739, 1853, 1854, 1855
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PIPING PLOVER

Absent

Walker Golder	labeled	1072, 1182	Predicted
Walker Golder	labeled	1628	Confirmed
Harry LeGrand	labeled	1292	Predicted
David Allen	labeled	967, 1741	Confirmed
Harry LeGrand	labeled	1179, 1183, 1184, 1293, 1294	Confirmed

ABNNB03090 CHARADRIUS VOCIFERUS

KILLDEER

David Allen	labeled	1179, 1627, 1742	Confirmed
Harry LeGrand	labeled	1617, 1730, 1739, 1844, 1846, 1852, 1853, 1855, 1856, 1959, 1960, 1968, 1969, 1970, 2075, 2086, 2192, 2193, 2200, 2201, 2202, 2310, 2319, 2429, 2430, 2437, 2548, 2549, 2557, 2669, 2670, 2791, 2792, 2914, 3415, 3418, 3543, 3547, 3675, 3676, 3804, 3805, 3934, 3935, 4066, 4067, 4071, 4199, 4200, 4201, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4744, 4745, 4882	Predicted
John Groves	labeled	2318, 2550, 3419	Confirmed

ABNNC01010 HAEMATOPUS PALLIATUS

AMERICAN OYSTERCATCHER

Harry LeGrand	labeled	1288, 1289, 1290, 1399, 1400, 1401, 1506, 1625, 1738, 1739, 1853, 1854, 1855	Absent
Walker Golder	labeled	1074, 1184, 1294, 1403, 1741	Confirmed
David Allen	labeled	1181, 1286, 1287, 1395, 1396	Predicted
David Allen	labeled	1072, 1179, 1182, 1183, 1292, 1515, 1626, 1627, 1628, 1740, 1856, 1971	Confirmed

ABNND01010 HIMANTOPUS MEXICANUS

BLACK-NECKED STILT

Harry LeGrand	labeled	2202	Excluded
Harry LeGrand	labeled	1286, 1287, 1396	Possible
Lamar Gore	labeled	1395	Predicted
Harry LeGrand	labeled	1736, 1738, 1853, 1970, 2086	Absent

ABNNF02010 CATOPTROPHORUS SEMIPALMATUS

WILLET

Walker Golder	labeled	1074, 1184, 1515, 1627, 1628, 1629, 1630, 1740, 1741	Confirmed
David Allen	labeled	1179, 1182, 1183, 1286, 1287, 1290, 1292, 1395, 1401, 1626,	Confirmed
Harry LeGrand	labeled	1399, 1625, 1738, 1739, 1853, 1854, 1855, 1970	Absent

ABNNF19020 SCOLOPAX MINOR

AMERICAN WOODCOCK

Lamar Gore	labeled	1395	Predicted
Harry LeGrand	labeled	1509, 1510, 1617, 1618, 1621, 1622, 1623, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1959, 1960, 1961, 1962, 1963, 1964, 1969, 2075, 2077, 2078, 2079, 2080, 2081, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2674, 2675, 2676, 2677, 2791, 2792, 2798, 2799, 2914, 2916, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3934, 3937, 4066, 4067, 4068, 4069, 4199, 4200, 4201, 4204, 4334, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1396, 1397, 1398, 1399, 1400, 1401, 1403, 1511, 1512, 1513, 1514, 1515, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1739, 1740, 1742, 1854, 1855, 1856, 1970, 1971	Possible
Harry LeGrand	labeled	1291	Absent
<u>ABNNM0301 LARUS ATRICILLA</u>		<u>LAUGHING GULL</u>	
David Allen	labeled	1292, 1293	Confirmed
Harry LeGrand	labeled	1399, 1623, 1736, 1738, 1739, 1853	Absent
Harry LeGrand	labeled	1074, 1182, 1183	Confirmed
Internal Review	labeled	1291	Confirmed
Walker Golder	labeled	1072, 1073, 1180, 1181, 1184, 1286, 1290, 1294, 1395, 1397, 1400, 1401, 1403, 1514, 1515, 1626, 1627, 1628, 1629, 1630,	Confirmed
Walker Golder	labeled	1508, 1620	Possible
<u>ABNNM0312 LARUS ARGENTATUS</u>		<u>HERRING GULL</u>	
Harry LeGrand	labeled	1399, 1625, 1738, 1739, 1853, 1854, 1855	Absent
Walker Golder	labeled	1508, 1511	Possible
Walker Golder	labeled	967, 1072, 1179, 1184, 1287, 1401, 1402, 1628, 1630, 1742	Confirmed
Lamar Gore	labeled	1286, 1395	Confirmed
Internal Review	labeled	1291	Predicted
Harry LeGrand	labeled	1073, 1074, 1182, 1183, 1293	Confirmed
Walker Golder	labeled	1181, 1290, 1294, 1400, 1403, 1514, 1515, 1629, 1741, 1856	Predicted
David Allen	labeled	1292	Confirmed
Harry LeGrand	labeled	1396	Possible
<u>ABNNM0321 LARUS MARINUS</u>		<u>GREAT BLACK-BACKED GULL</u>	
Lamar Gore	labeled	1286, 1395	Confirmed
Walker Golder	labeled	967, 1294	Confirmed
Walker Golder	labeled	1181, 1184, 1290, 1400, 1401, 1508	Predicted
Internal Review	labeled	1291	Predicted
Harry LeGrand	labeled	1396	Possible
David Allen	labeled	1073, 1182, 1183, 1292, 1293	Confirmed
Harry LeGrand	labeled	1074	Confirmed
<u>ABNNM0801 STERNA NILOTICA</u>		<u>GULL-BILLED TERN</u>	
David Allen	labeled	1740, 1741	Confirmed
Harry LeGrand	labeled	1399, 1625, 1738, 1739, 1853, 1854, 1855	Absent
Internal Review	labeled	1291	Possible
Walker Golder	labeled	1628	Confirmed
<u>ABNNM0802 STERNA CASPIA</u>		<u>CASPIAN TERN</u>	
Harry LeGrand	labeled	1288, 1289, 1290, 1399	Absent
Harry LeGrand	labeled	1400	Excluded
Walker Golder	labeled	1182	Confirmed
<u>ABNNM0803 STERNA MAXIMA</u>		<u>ROYAL TERN</u>	
Harry LeGrand	labeled	1399, 1623, 1625, 1738, 1739, 1853, 1855	Absent

Walker Golder	labeled	1286, 1290, 1395	Predicted
Walker Golder	labeled	1397	Possible
Walker Golder	labeled	1072, 1073, 1074, 1181, 1184, 1294, 1400, 1403, 1514, 1515, 1627, 1628, 1629, 1630, 1741	Confirmed
Harry LeGrand	labeled	1182, 1183, 1293	Confirmed
Harry LeGrand	labeled	1626, 1740	Predicted
David Allen	labeled	1292	Confirmed
Internal Review	labeled	1291	Predicted

ABNNM0805 STERNA SANDVICENSIS SANDWICH TERN

Harry LeGrand	labeled	1399, 1625, 1738, 1739, 1853, 1854, 1855	Absent
Harry LeGrand	labeled	1182, 1183, 1742	Confirmed
Harry LeGrand	labeled	1626, 1740	Predicted
Internal Review	labeled	1291	Possible
Walker Golder	labeled	1072, 1073, 1179, 1184, 1292, 1294, 1628, 1629, 1630, 1741, 1856, 1971	Confirmed
Walker Golder	labeled	1180, 1181, 1286, 1287, 1395, 1401, 1514, 1515	Predicted

ABNNM0807 STERNA HIRUNDO COMMON TERN

David Allen	labeled	1072, 1073, 1184, 1292, 1514, 1626, 1628, 1740, 1741	Confirmed
Walker Golder	labeled	1181, 1287, 1515	Predicted
Walker Golder	labeled	1397, 1401	Possible
Walker Golder	labeled	1074, 1290, 1294, 1400, 1629, 1630, 1856, 1971	Confirmed
Internal Review	labeled	1291	Predicted
Harry LeGrand	labeled	1286, 1395	Predicted
Harry LeGrand	labeled	1399, 1625, 1738, 1739, 1853, 1854, 1855	Absent
Harry LeGrand	labeled	1179, 1182, 1183, 1742	Confirmed

ABNNM0809 STERNA FORSTERI FORSTER'S TERN

Internal Review	labeled	1291	Predicted
Walker Golder	labeled	1184, 1630	Predicted
Walker Golder	labeled	967, 1072, 1181, 1182, 1294, 1400, 1401	Confirmed
David Allen	labeled	1073, 1074, 1183, 1290, 1292, 1293	Confirmed
Harry LeGrand	labeled	1738	Absent
Harry LeGrand	labeled	1512, 1513, 1740, 1741, 1856, 1971	Possible
Harry LeGrand	labeled	1179, 1286, 1287, 1403	Predicted

ABNNM0810 STERNA ANTILLARUM LEAST TERN

Internal Review	labeled	1291	Possible
Walker Golder	labeled	1072, 1073, 1074, 1627, 1628, 1629, 1630, 1740	Confirmed
Harry LeGrand	labeled	1513	Predicted
Harry LeGrand	labeled	1182, 1183, 1293, 1623	Confirmed
Harry LeGrand	labeled	1399, 1738, 1853	Absent
David Allen	labeled	1184, 1287, 1292, 1294, 1403, 1514, 1515, 1624, 1626, 1856,	Confirmed
Walker Golder	labeled	1286	Predicted

<u>ABNNM0815 STERNA FUSCATA</u>			<u>SOOTY TERN</u>	
David Allen	labeled	1179, 1183, 1292, 1293		Confirmed
Harry LeGrand	labeled	1072, 1182, 1184		Possible
Walker Golder	labeled	1742		Confirmed
<u>ABNNM1401 RYNCHOPS NIGER</u>			<u>BLACK SKIMMER</u>	
David Allen	labeled	1290		Confirmed
Walker Golder	labeled	967, 1073		Confirmed
Walker Golder	labeled	1625		Absent
Internal Review	labeled	1291		Predicted
David Allen	labeled	1286, 1287, 1395		Predicted
Harry LeGrand	labeled	1399, 1738, 1739, 1853		Absent
David Allen	labeled	1854, 1855		Absent
Harry LeGrand	labeled	1401, 1512, 1513		Possible
<u>ABNPB01010 COLUMBA LIVIA</u>			<u>ROCK DOVE</u>	
Harry LeGrand	labeled	1286, 1287, 1395, 1397, 1398, 1399, 1400, 1403, 1509, 1510, 1513, 1617, 1621, 1625, 1626, 1627, 1730, 1731, 1739, 1844, 1852, 1853, 1959, 1966, 1967, 1968, 1969, 1970, 2075, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2197, 2198, 2200, 2201, 2202, 2310, 2311, 2312, 2319, 2429, 2431, 2435, 2548, 2549, 2550, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2676, 2677, 2791, 2792, 2796, 2797, 2798, 2799, 2914, 2919, 2922, 3038, 3046, 3291, 3292, 3293, 3418, 3419, 3545, 3674,		Predicted
<u>ABNPB04040 ZENAIDA MACROURA</u>			<u>MOURNING DOVE</u>	
John Gerwin	labeled	2313, 2792, 3291, 3292, 3419, 3420		Confirmed
John Groves	labeled	2670		Confirmed
Harry LeGrand	labeled	1181, 1742, 1959, 2075, 2548, 2549, 2669, 2791, 2914, 4066, 4199, 4200, 4201, 4334, 4335, 4606, 4743		Predicted
Cynthia Britton	labeled	1617, 1730		Confirmed
<u>ABNRB02010 COCCYZUS ERYTHROPTALMUS</u>			<u>BLACK-BILLED CUCKOO</u>	
Harry LeGrand	labeled	4066, 4067, 4199, 4200, 4201, 4334, 4335, 4470, 4606		Predicted
Lamar Gore	labeled	1395		Absent
Harry LeGrand	labeled	1180, 1288, 1289, 3415, 3416, 3543, 3544, 3545, 4338, 4471, 4472, 4473, 4607, 4608, 4609, 4743, 4744, 4745, 4882		Possible
<u>ABNRB02020 COCCYZUS AMERICANUS</u>			<u>YELLOW-BILLED CUCKOO</u>	
Cynthia Britton	labeled	1617, 1730		Confirmed
Harry LeGrand	labeled	1181, 1290, 1293, 1403, 1513, 1624, 1625, 1742, 2075, 2084, 2086, 2200, 2201, 2202, 2319, 2429, 2548, 2549, 2669, 2670, 2791, 2914, 3415, 3543, 3674, 3803, 3804, 3935, 3936, 4066, 4067, 4199, 4201, 4202, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4882		Predicted
John Gerwin	labeled	2313, 2792, 3293, 3418, 3419		Confirmed
John Groves	labeled	1959, 2318		Confirmed
<u>ABNSA01010 TYTO ALBA</u>			<u>BARN OWL</u>	
Harry LeGrand	labeled	3543, 3672, 3673, 3802, 3803, 3804, 3934, 3935, 4066, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4606,		Possible
John Gerwin	labeled	967, 1072, 1073, 1741, 1742, 2918, 2920, 2921, 3042, 3043, 3044, 3045, 3167, 3293, 3294, 3418, 3419, 3420, 3421, 3676		Confirmed

Lamar Gore	labeled	1395	Predicted
<u>ABNSB01030 OTUS ASIO</u>		<u>EASTERN SCREECH-OWL</u>	
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	1291	Absent
Harry LeGrand	labeled	1074, 1179	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1182, 1183, 1184, 1294	Possible
Harry LeGrand	labeled	1180, 1181, 1286, 1287, 1288, 1290, 1292, 1293, 1396, 1397, 1400, 1403, 1507, 1511, 1513, 1514, 1515, 1619, 1620, 1621, 1622, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1731, 1732, 1737, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1851, 1852, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1966, 1969, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2084, 2085, 2086, 2194, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2553, 2555, 2556, 2557, 2669, 2670, 2671, 2673, 2674, 2676, 2677, 2791, 2792, 2795, 2796, 2797, 2798, 2799, 2914, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3045, 3046, 3166, 3167, 3168, 3169, 3170, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3418, 3419, 3420, 3422, 3543, 3545, 3546, 3547, 3548, 3674, 3675, 3676, 3677, 3803, 3804, 3805, 3806, 3934, 3935, 4066, 4067, 4199, 4200, 4201, 4204, 4334, 4335, 4338, 4470, 1395	Predicted
Lamar Gore	labeled	1395	Predicted
<u>ABNSB05010 BUBO VIRGINIANUS</u>		<u>GREAT HORNED OWL</u>	
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Walker Golder	labeled	1741, 1742	Confirmed
John Groves	labeled	967, 2315, 2318, 2555, 3043, 3292, 3293, 3294, 3416, 3419, 3421, 3545	Confirmed
John Gerwin	labeled	2313, 3044, 3045, 4069	Confirmed
Harry LeGrand	labeled	1180, 1181, 1286, 1287, 1288, 1289, 1290, 1293, 1395, 1396, 1398, 1399, 1400, 1403, 1513, 1514, 1515, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1737, 1738, 1739, 1740, 1844, 1845, 1851, 1852, 1853, 1855, 1856, 1959, 1960, 1962, 1966, 1968, 1969, 2075, 2077, 2078, 2081, 2082, 2083, 2084, 2085, 2086, 2194, 2197, 2198, 2199, 2200, 2201, 2202, 2311, 2312, 2314, 2316, 2317, 2319, 2429, 2430, 2431, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2556, 2557, 2669, 2670, 2671, 2676, 2677, 2791, 2792, 2795, 2796, 2914, 2919, 3038, 3041, 3042, 3166, 3167, 3290, 3291, 3295, 3415, 3418, 3420, 3422, 3546, 3547, 3548, 3674, 3675, 3676, 3802, 3803, 3804, 3805, 3806, 3934, 3935, 3936, 4066, 4067, 4199, 4201, 4202, 4334, 4335, 4336, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 1072, 1073, 1182, 1183, 1184, 1294	Predicted
Harry LeGrand	labeled	1072, 1073, 1182, 1183, 1184, 1294	Possible
Harry LeGrand	labeled	1291	Absent
Harry LeGrand	labeled	1074, 1179	Confirmed
<u>ABNSB12020 STRIX VARIA</u>		<u>BARRED OWL</u>	
John Gerwin	labeled	3041, 3045, 3169	Confirmed
John Groves	labeled	2792, 3165, 3292, 3293, 3294, 3549	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1515, 1629, 1630	Absent
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Walker Golder	labeled	1740, 1741, 1742	Confirmed

Harry LeGrand	labeled	1179, 1180, 1181, 1286, 1287, 1288, 1290, 1292, 1293, 1395, 1400, 1401, 1510, 1511, 1621, 1622, 1627, 1628, 1844, 1845, 1855, 1856, 1959, 1960, 1963, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2084, 2086, 2192, 2194, 2196, 2197, 2198, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2319, 2429, 2430, 2431, 2434, 2548, 2549, 2550, 2553, 2554, 2669, 2670, 2671, 2674, 2791, 2914, 3038, 3040, 3164, 3289, 3290, 3291, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3422, 3543, 3544, 3545, 3547, 3548, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3934, 3935, 4066, 4067, 4199, 4200, 4201, 4334, 4470, 4471, 4473, 4606, 4607, 4608,	Predicted
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ABNSB15020 AEGOLIUS ACADICUS

NORTHERN SAW-WHET OWL

Harry LeGrand	labeled	3543, 3544, 3672, 3674, 4199, 4200, 4201, 4334	Possible
Harry LeGrand	labeled	4335	Predicted

ABNTA02020 CHORDEILES MINOR

COMMON NIGHTHAWK

Walker Golder	labeled	1293, 1403, 1742	Confirmed
Harry LeGrand	labeled	1072, 1073, 1074, 1179, 1182, 1183, 1287, 1624, 1626, 2432, 2436, 2556, 2671, 2672, 2676, 2677, 2793, 2794, 2795, 2917, 3041, 3042, 3166, 3167, 3169, 3293	Predicted
John Gerwin	labeled	3419	Confirmed
John Groves	labeled	2313	Confirmed

ABNTA07010 CAPRIMULGUS CAROLINENSIS

CHUCK-WILL'S-WIDOW

John Groves	labeled	1289	Confirmed
Harry LeGrand	labeled	1181, 1290, 1395, 1396, 1397, 1398, 1399, 1507, 1509, 1617, 1618, 1621, 1627, 1628, 1629, 1630, 1730, 1740, 1742, 1844, 1856, 1959, 1960, 1971, 2075, 2081, 2085, 2086, 2192, 2197, 2198, 2200, 2201, 2202, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2432, 2434, 2435, 2548, 2549, 2550, 2551, 2552, 2553, 2669, 2670, 2671, 2672, 2791, 2792, 2794, 2795, 2796, 2917, 2918, 2919, 3041, 3042, 3170, 3295, 3422	Predicted
Harry LeGrand	labeled	1291	Absent
Harry LeGrand	labeled	1182, 3806	Possible

ABNTA07070 CAPRIMULGUS VOCIFERUS

WHIP-POOR-WILL

Harry LeGrand	labeled	1179, 1184, 1286, 1287, 1292, 1293, 1395	Possible
Harry LeGrand	labeled	1180, 1181, 1288, 1289, 1290, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1510, 1511, 1512, 1513, 1617, 1618, 1619, 1621, 1622, 1623, 1624, 1625, 1730, 1732, 1734, 1737, 1738, 1739, 1844, 1845, 1851, 1852, 1959, 2075, 2084, 2085, 2086, 2200, 2201, 2202, 2318, 2319, 2429, 2669, 2670, 2671, 2791, 2914, 3038, 3290, 3291, 3292, 3415, 3416, 3418, 3419,	Predicted
John Gerwin	labeled	2313	Confirmed
John Groves	labeled	2792, 3546	Confirmed

ABNUA03010 CHAETURA PELAGICA

CHIMNEY SWIFT

John Gerwin	labeled	2313, 3419	Confirmed
John Groves	labeled	2549, 2670	Confirmed
Cynthia Britton	labeled	1617, 1730	Confirmed
Harry LeGrand	labeled	1742, 1959, 2075, 2548, 2669, 2791, 2914, 4199, 4334, 4338, 4470, 4471, 4473, 4606, 4609, 4743, 4882	Predicted

ABNUC45010 ARCHILOCHUS COLUBRIS

RUBY-THROATED HUMMINGBIRD

Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
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Harry LeGrand	labeled	1074, 1179, 1180, 1960, 2075, 2084, 2086, 2200, 2201, 2202, 2319, 2548, 2669, 2670, 2791, 2914, 4199, 4200, 4334, 4335, 4606, 4743, 4882	Predicted
John Gerwin	labeled	2671, 3293, 3419	Confirmed
John Groves	labeled	1959, 2549, 2792	Confirmed

ABNXD01020 CERYLE ALCYON

BELTED KINGFISHER

Harry LeGrand	labeled	1291	Absent
John Groves	labeled	2318, 2792, 3419	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1289, 1290, 1294, 1515, 1628, 1629, 1630	Possible
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	1184, 1292, 1293, 1403, 1506, 1507, 1513, 1514, 1624, 1625, 1626, 1627, 1731, 1737, 1738, 1739, 1740, 1742, 1844, 1851, 1852, 1853, 1855, 1856, 1959, 1960, 1961, 1962, 1968, 1969, 1970, 2075, 2077, 2084, 2085, 2086, 2194, 2200, 2201, 2202, 2319, 2437, 2548, 2549, 2556, 2557, 2669, 2670, 2676, 2677, 2791, 2798, 2799, 2914, 2922, 3038, 3046, 3292, 3293, 3295, 3418, 3420, 3421, 3422, 3548, 3675, 3676, 3803, 3804, 3805, 3934, 3935, 4066, 4199, 4200, 4201, 4202, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743,	Predicted

ABNYF04040 MELANERPES ERYTHROCEPHALUS

RED-HEADED WOODPECKER

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1629,	Absent
Harry LeGrand	labeled	1510, 1511, 1513, 1617, 1621, 1622, 1623, 1624, 1625, 1730, 1731, 1732, 1733, 1737, 1844, 1845, 1846, 1847, 1960, 1968, 1969, 2075, 2084, 2192, 2194, 2200, 2201, 2310, 2311, 2312, 2319, 2429, 2430, 2431, 2437, 2548, 2549, 2550, 2557, 2669, 2670, 2671, 2791, 2792, 2793, 2795, 2914, 2915, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3166, 3167, 3170, 3289, 3291, 3292, 3293, 3294, 3295, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3545, 3546, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 3806	Predicted
John Groves	labeled	1959, 2318	Confirmed

ABNYF04170 MELANERPES CAROLINUS

RED-BELLIED WOODPECKER

John Gerwin	labeled	1959, 2313, 2318, 2792, 3419	Confirmed
Lamar Gore	labeled	1510	Confirmed
John Groves	labeled	1290, 2670	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184	Absent
Cynthia Britton	labeled	1617, 1618, 1730	Confirmed
Harry LeGrand	labeled	1180, 1181, 1742, 2548, 2549, 2669, 2791, 2914, 3673, 3674, 3802, 4473, 4609, 4744, 4745, 4882	Predicted

ABNYF05010 SPHYRAPICUS VARIUS

YELLOW-BELLIED SAPSUCKER

Harry LeGrand	labeled	1854	Excluded
Harry LeGrand	labeled	3415, 3543, 3544, 3672, 3673, 3674, 3802, 3938, 3939, 4066, 4071, 4199, 4200, 4201, 4334, 4608, 4609, 4744, 4745, 4882	Possible
Harry LeGrand	labeled	3805, 4070, 4470	Predicted

ABNYF07030 PICOIDES PUBESCENS

DOWNY WOODPECKER

John Groves	labeled	2549, 2792	Confirmed
Cynthia Britton	labeled	1617, 1730	Confirmed
Harry LeGrand	labeled	1181, 1742, 2548, 2669, 2670, 2791, 2914, 2922, 3046	Predicted
John Gerwin	labeled	1959, 3292, 3419	Confirmed

ABNYF07040 PICOIDES VILLOSUS

John Groves labeled 1959, 3419, 3546
 John Gerwin labeled 2550, 2792
 Harry LeGrand labeled 1180, 1181, 1288, 1290, 1400, 1510, 1621, 1622, 1625, 1626, 1731, 1734, 1737, 1738, 1741, 1844, 1851, 1855, 1962, 2075, 2077, 2078, 2079, 2080, 2081, 2084, 2085, 2086, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2316, 2317, 2319, 2429, 2430, 2548, 2549, 2669, 2670, 2791, 2914, 3293, 3294, 3418, 3420, 3675, 4606, 4743, 4882
 Harry LeGrand labeled 967, 1072, 1073, 1074, 1179, 1182, 1183, 1184, 1286, 1287, 1292, 1293, 1294, 1395, 1403, 1515, 1627, 1628, 1629, 1630, 1742, 1856, 1971
 Cynthia Britton labeled 1617, 1618, 1730
 Harry LeGrand labeled 1291

HAIRY WOODPECKER

Confirmed
 Confirmed
 Predicted
 Possible
 Confirmed
 Absent

ABNYF07060 PICOIDES BOREALIS

Harry LeGrand labeled 2317, 2434
 Harry LeGrand labeled 1286, 1287, 1395, 1396, 1506, 1507, 1617, 1618, 1959, 1960, 1961, 2075, 2076, 2077, 2193, 2194, 2195, 2312, 2313, 2314, 2431, 2432, 2433, 2552, 2553, 2673, 2674, 2796, 2919, 2920
 Harry LeGrand labeled 1962, 1963, 2078, 2079, 2196, 2797

RED-COCKADED WOODPECKER

Confirmed
 Historic
 Possible

ABNYF10020 COLAPTES AURATUS

Harry LeGrand labeled 1742, 2075, 2086, 2202, 2319, 2429, 2548, 2549, 2669, 2670, 2791, 4334, 4338, 4470, 4471, 4473, 4606, 4609, 4743, 4882
 John Gerwin labeled 2318, 2550
 John Groves labeled 1959
 Cynthia Britton labeled 1617, 1730

NORTHERN FLICKER

Predicted
 Confirmed
 Confirmed
 Confirmed

ABNYF12020 DRYOCOPUS PILEATUS

Cynthia Britton labeled 1617, 1618, 1730
 Harry LeGrand labeled 1179, 1181, 1290, 1293, 1403, 1742, 1856, 2086, 2201, 2202, 2319, 2429, 2548, 2549, 2669, 2670, 2671, 2791, 2914, 3415, 4199, 4334, 4606, 4743
 John Gerwin labeled 1959
 John Groves labeled 2792

PILEATED WOODPECKER

Confirmed
 Predicted
 Confirmed
 Confirmed

ABPAE32060 CONTOPUS VIRENS

John Gerwin labeled 2318, 2550
 John Groves labeled 1959, 2792, 3419
 Harry LeGrand labeled 1180, 1181, 1742, 2075, 2086, 2201, 2202, 2319, 2548, 2549, 2669, 2670, 2791, 2914, 2922, 3046, 3293, 3294, 3295, 3418, 3420, 3421, 3422, 4199, 4334, 4338, 4473, 4606, 4609, 4743,
 Harry LeGrand labeled 967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630
 Cynthia Britton labeled 1617, 1730

EASTERN WOOD-PEWEE

Confirmed
 Confirmed
 Predicted
 Possible
 Confirmed

ABPAE33020 EMPIDONAX VIRESCENS

Harry LeGrand labeled 967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1630
 Harry LeGrand labeled 1629
 Harry LeGrand labeled 1179, 1181, 1286, 1287, 1288, 1290, 1742, 1856, 1971, 2086, 2202, 2319, 2548, 2549, 2669, 2670, 2791, 2792, 2914, 3293, 3294, 3295, 3420, 3421, 3422, 3547, 3548, 3549, 3676, 4199, 4334, 4606, 4743, 4882

ACADIAN FLYCATCHER

Absent
 Possible
 Predicted

John Gerwin	labeled	1959, 2550	Confirmed
John Groves	labeled	3419	Confirmed
Cynthia Britton	labeled	1617, 1730	Confirmed
<u>ABPAE33030</u>	<u>EMPIDONAX ALNORUM</u>		<u>ALDER FLYCATCHER</u>
Harry LeGrand	labeled	3673, 4069, 4202	Predicted
John Gerwin	labeled	4070	Predicted
<u>ABPAE33040</u>	<u>EMPIDONAX TRAILLII</u>		<u>WILLOW FLYCATCHER</u>
Harry LeGrand	labeled	3040, 3165, 3804, 3805, 3934, 3936, 4200, 4201, 4203, 4204, 4335, 4337, 4338, 4471, 4472	Predicted
Harry LeGrand	labeled	4473, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Possible
Harry LeGrand	labeled	4336	Confirmed
<u>ABPAE33070</u>	<u>EMPIDONAX MINIMUS</u>		<u>LEAST FLYCATCHER</u>
Harry LeGrand	labeled	4070, 4203, 4204, 4335, 4336, 4337, 4470	Confirmed
Harry LeGrand	labeled	3415, 3805, 3937, 4068, 4069, 4200, 4201, 4338, 4471, 4472	Predicted
<u>ABPAE35020</u>	<u>SAYORNIS PHOEBE</u>		<u>EASTERN PHOEBE</u>
Harry LeGrand	labeled	1509, 1621, 1622, 1623, 1737, 1851, 1852, 1853, 2086, 2202	Possible
Harry LeGrand	labeled	1617, 1730, 1734, 1959, 1960, 1966, 1967, 2075, 2081, 2082, 2084, 2198, 2200, 2201, 2316, 2319, 2437, 2548, 2556, 2557, 2669, 2670, 2677, 2791, 2914, 4199, 4334, 4606, 4743, 4882	Predicted
John Gerwin	labeled	2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
Lamar Gore	labeled	1395	Confirmed
<u>ABPAE43070</u>	<u>MYIARCHUS CRINITUS</u>		<u>GREAT CRESTED FLYCATCHER</u>
Harry LeGrand	labeled	2075, 2548, 2549, 2669, 2670, 2791, 2914, 3415, 3934, 4066, 4199, 4204, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609,	Predicted
John Gerwin	labeled	1403, 2312, 2550, 3419	Confirmed
Cynthia Britton	labeled	1617, 1730	Confirmed
John Groves	labeled	1959	Confirmed
<u>ABPAE52060</u>	<u>TYRANNUS TYRANNUS</u>		<u>EASTERN KINGBIRD</u>
Harry LeGrand	labeled	1074, 1181, 1182, 1183, 1844, 2075, 2548, 2549, 2669, 2791, 3804, 3805, 3934, 3935, 3936, 4066, 4067, 4199, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4744, 4745, 4882	Predicted
John Gerwin	labeled	2318, 2550, 3419	Confirmed
John Groves	labeled	1959, 2670	Confirmed
<u>ABPAU01010</u>	<u>PROGNE SUBIS</u>		<u>PURPLE MARTIN</u>
Harry LeGrand	labeled	1072, 1073, 1074, 1180, 1181, 1182, 1289, 1290, 1617, 1730, 1732, 1733, 1844, 1845, 1846, 1959, 1960, 2075, 2193, 2194, 2311, 2429, 2430, 2431, 2548, 2549, 2550, 2669, 2670, 2791, 3806, 4473, 4609, 4744, 4745, 4882	Predicted
<u>ABPAU03010</u>	<u>TACHYCINETA BICOLOR</u>		<u>TREE SWALLOW</u>
Harry LeGrand	labeled	3415, 3416, 3544, 3934, 4066, 4067, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4608, 4609, 4743, 4744, 4745, 4882	Possible

<u>ABPAU07010</u>			<u>STELGIDOPTERYX SERRIPENNIS</u>		<u>NORTHERN ROUGH-WINGED SWALLOW</u>	
John Groves	labeled	1844				Confirmed
John Gerwin	labeled	3419				Confirmed
Harry LeGrand	labeled	1291				Absent
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1290, 1294, 1395, 1515, 1627, 1628, 1629, 1630, 1742, 1856, 4470, 4606, 4743				Possible
Harry LeGrand	labeled	1506, 1617, 1618, 1730, 1845, 1846, 1959, 1960, 1967, 1968, 1969, 2075, 2083, 2084, 2085, 2086, 2193, 2194, 2201, 2311, 2312, 2429, 2430, 2431, 2548, 2549, 2550, 2669, 2670, 2671, 2791, 2792, 2799, 2914, 2921, 2922, 3038, 3042, 3043, 3044, 3045, 3046, 3167, 3170, 3291, 3292, 3295, 3418, 3421, 3422, 4334, 4338, 4471, 4473, 4609, 4882				Predicted
<u>ABPAU09010</u>			<u>PETROCHELIDON PYRRHONOTA</u>		<u>CLIFF SWALLOW</u>	
Harry LeGrand	labeled	1402				Confirmed
Harry LeGrand	labeled	1959, 1960, 2075, 2077, 2078, 2194, 2195, 2312, 2315, 2316, 2434, 2435, 2436, 2553, 2554, 2555, 2556, 2671, 2672, 2674, 2675, 2793, 2794, 2795, 2796, 2914, 2915, 2917, 2918, 2919, 2921, 2922, 3038, 3039, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3170, 3289, 3290, 3291, 3415, 3416, 3422, 3543, 3546, 3547, 3675, 3676, 3678, 3807, 3808				Possible
John Gerwin	labeled	2429, 3419				Confirmed
<u>ABPAU09030</u>			<u>HIRUNDO RUSTICA</u>		<u>BARN SWALLOW</u>	
Harry LeGrand	labeled	1072, 1073, 1074, 1179, 1181, 1290, 1617, 1627, 1730, 1844, 2075, 2548, 2669, 2670, 2791, 2914, 4606, 4743, 4882				Predicted
John Gerwin	labeled	2312, 2313, 3292, 3419				Confirmed
John Groves	labeled	1959, 2549, 2550, 2792				Confirmed
<u>ABPAV02020</u>			<u>CYANOCITTA CRISTATA</u>		<u>BLUE JAY</u>	
Harry LeGrand	labeled	1180, 1181, 1289, 1290, 1742, 1959, 2075, 2548, 2669, 2670, 2791, 2914, 4199, 4334, 4606, 4743, 4882				Predicted
John Gerwin	labeled	2550, 2792, 3292, 3419				Confirmed
John Groves	labeled	2549				Confirmed
<u>ABPAV10010</u>			<u>CORVUS BRACHYRHYNCHOS</u>		<u>AMERICAN CROW</u>	
John Groves	labeled	1290, 2549				Confirmed
Harry LeGrand	labeled	1074, 1181, 1959, 2075, 2548, 2669, 2670, 2791, 2914, 4606, 4743, 4882				Predicted
John Gerwin	labeled	2312, 2313, 2550, 2792, 3292, 3419				Confirmed
<u>ABPAV10080</u>			<u>CORVUS OSSIFRAGUS</u>		<u>FISH CROW</u>	
Harry LeGrand	labeled	2548, 2549, 2550, 2669, 2670, 2671, 2676, 2677, 2791, 2792, 2795, 2796, 2797, 2798, 2799, 2917, 2918, 2919, 2920, 2921, 2922, 3041, 3042, 3043, 3044, 3045, 3046, 3166, 3167, 3168,				Possible
Harry LeGrand	labeled	1183, 1184, 1294, 1628, 1629, 1630, 2075, 2086, 2201, 2202, 2312, 2319, 2430, 2431, 2556, 2557				Predicted
John Gerwin	labeled	3165, 3290				Possible
John Groves	labeled	1959				Confirmed
Walker Golder	labeled	1182, 1403, 1626, 1627				Confirmed
<u>ABPAV10110</u>			<u>CORVUS CORAX</u>		<u>COMMON RAVEN</u>	
Harry LeGrand	labeled	3038, 3039, 3040, 3165				Possible

Harry LeGrand	labeled	2916, 4201, 4338, 4470, 4471, 4606, 4607	Predicted
<u>ABPAW01010 POECILE ATRICAPILLUS</u>		<u>BLACK-CAPPED CHICKADEE</u>	
Harry LeGrand	labeled	4471, 4606	Predicted
John Gerwin	labeled	4070	Confirmed
Harry LeGrand	labeled	3804, 3936	Historic
<u>ABPAW01020 POECILE CAROLINENSIS</u>		<u>CAROLINA CHICKADEE</u>	
Harry LeGrand	labeled	1181, 1742, 2075, 2548, 2669, 2670, 2791, 2914	Predicted
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630	Absent
John Gerwin	labeled	2550, 2792, 3292, 3419	Confirmed
John Groves	labeled	1959, 2549	Confirmed
<u>ABPAW01110 BAEOLOPHUS BICOLOR</u>		<u>TUFTED TITMOUSE</u>	
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630	Absent
Harry LeGrand	labeled	1180, 1181, 2548, 2669, 2670, 2791, 2914	Predicted
John Gerwin	labeled	1959, 2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPAZ01010 SITTA CANADENSIS</u>		<u>RED-BREASTED NUTHATCH</u>	
Harry LeGrand	labeled	3804, 3805, 3934, 4066, 4069, 4070, 4201, 4471, 4472, 4606,	Predicted
Harry LeGrand	labeled	3803, 4204, 4337	Confirmed
Harry LeGrand	labeled	3289, 3415, 3416, 3543, 3544, 3672, 3674, 3806, 3938, 3939, 4199, 4200, 4334, 4608, 4743	Possible
<u>ABPAZ01020 SITTA CAROLINENSIS</u>		<u>WHITE-BREASTED NUTHATCH</u>	
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1515, 1628, 1629, 1630	Absent
Harry LeGrand	labeled	1181	Possible
Harry LeGrand	labeled	1624, 1960, 1969, 2075, 2076, 2077, 2078, 2084, 2086, 2193, 2194, 2200, 2201, 2202, 2311, 2312, 2317, 2318, 2319, 2429, 2430, 2436, 2437, 2548, 2549, 2550, 2556, 2557, 2669, 2670, 2671, 2676, 2677, 2791, 2792, 2798, 2799, 2914, 2921, 2922, 3038, 3045, 3046, 3170, 3293, 3294, 3295, 3419, 3420, 3422, 3547, 3548, 3549, 3676, 3934, 4066, 4199, 4334, 4335, 4338,	Predicted
John Gerwin	labeled	1289	Confirmed
John Groves	labeled	1959	Confirmed
<u>ABPAZ01040 SITTA PUSILLA</u>		<u>BROWN-HEADED NUTHATCH</u>	
John Gerwin	labeled	3045	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630	Absent
Harry LeGrand	labeled	1179	Confirmed
Harry LeGrand	labeled	1181, 1286, 1287, 1290, 1293, 1403, 1617, 1618, 1619, 1620, 1621, 1625, 1730, 1731, 1732, 1733, 1737, 1742, 1844, 1845, 1846, 1847, 1848, 1851, 1852, 1856, 1959, 1960, 1961, 1962, 1963, 1966, 1967, 2075, 2076, 2077, 2081, 2082, 2086, 2192, 2201, 2202, 2311, 2319, 2429, 2430, 2548, 2549, 2669, 2670, 2791, 2914, 2919, 3042, 3043, 3167, 3291, 3292, 3293, 3418	Predicted
John Groves	labeled	3419	Confirmed
<u>ABPBA01010 CERTHIA AMERICANA</u>		<u>BROWN CREEPER</u>	
Harry LeGrand	labeled	3415, 3416, 3543, 3544, 3672, 3674, 3805, 4199, 4200, 4201, 4334, 4473, 4608, 4609, 4745, 4882	Possible

John Gerwin	labeled	3802	Possible
Harry LeGrand	labeled	3803, 3937, 4068, 4335, 4337, 4338, 4471, 4472, 4606	Predicted
Harry LeGrand	labeled	3804, 4204	Confirmed
John Groves	labeled	4336	Confirmed
<u>ABPBG06130</u>		<u>THRYOTHORUS LUDOVICIANUS</u>	<u>CAROLINA WREN</u>
John Gerwin	labeled	1959, 2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
Harry LeGrand	labeled	1182, 2548, 2669, 2670, 2791, 2914	Predicted
<u>ABPBG09010</u>		<u>TROGLODYTES AEDON</u>	<u>HOUSE WREN</u>
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1515	Absent
Harry LeGrand	labeled	2313, 2432	Confirmed
Harry LeGrand	labeled	1968, 1969, 1970, 2083, 2436, 2556	Possible
Harry LeGrand	labeled	1181, 1288, 1289, 1290, 1398, 1399, 1513, 1625, 1626, 2075, 2076, 2077, 2192, 2193, 2194, 2310, 2311, 2312, 2429, 2430, 2431, 2548, 2549, 2550, 2552, 2553, 2554, 2669, 2670, 2673, 2674, 2675, 2791, 2792, 2796, 2797, 2799, 2914, 2919, 2921, 2922, 3038, 3042, 3043, 3045, 3046, 3163, 3166, 3167, 3170, 3289, 3291, 3292, 3293, 3415, 3418, 3419, 3677, 3678, 3807, 4199, 4200, 4201, 4204, 4334, 4335, 4337, 4338, 4471, 4472, 4473, 4606, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
<u>ABPBG09050</u>		<u>TROGLODYTES TROGLODYTES</u>	<u>WINTER WREN</u>
Harry LeGrand	labeled	3804, 4204	Confirmed
Harry LeGrand	labeled	3415, 3416, 3543, 3544, 3672, 3674, 3938	Possible
Harry LeGrand	labeled	3673, 3802, 3805, 3934, 3937, 4066, 4069, 4071, 4200, 4201, 4338, 4606, 4607, 4608, 4743	Predicted
John Gerwin	labeled	4070	Confirmed
<u>ABPBG10020</u>		<u>CISTOTHORUS PALUSTRIS</u>	<u>MARSH WREN</u>
Harry LeGrand	labeled	1179	Confirmed
Walker Golder	labeled	1742	Confirmed
Harry LeGrand	labeled	1181, 1288, 1289, 1290, 1293, 1856	Predicted
Harry LeGrand	labeled	1730, 1736, 1737, 1738, 1739, 1844, 1846, 1853, 1855	Absent
Internal Review	labeled	1292	Confirmed
<u>ABPBJ05010</u>		<u>REGULUS SATRAPA</u>	<u>GOLDEN-CROWNED KINGLET</u>
John Groves	labeled	4070	Confirmed
Harry LeGrand	labeled	3164, 3290	Absent
Harry LeGrand	labeled	3803, 3804, 4204, 4337	Confirmed
Harry LeGrand	labeled	3415, 3543, 3672, 4199, 4200, 4201, 4334, 4473, 4608, 4609, 4745, 4882	Possible
Harry LeGrand	labeled	3674, 3805, 3937, 4471, 4606	Predicted
John Gerwin	labeled	3416, 3417, 3545, 3675	Absent
John Groves	labeled	3289	Absent
<u>ABPBJ08010</u>		<u>POLIOPTILA CAERULEA</u>	<u>BLUE-GRAY GNATCATCHER</u>
John Groves	labeled	1959, 2549	Confirmed
Internal Review	labeled	1179, 1181, 1290	Predicted
John Gerwin	labeled	2550, 2792, 3419	Confirmed

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1629,	Absent
Harry LeGrand	labeled	2075, 2429, 2548, 2669, 2670, 2791, 2914, 4204, 4337, 4338, 4472, 4473, 4609	Predicted
<u>ABPBJ15010 SIALIA SIALIS</u>		<u>EASTERN BLUEBIRD</u>	
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1628, 1629,	Absent
Harry LeGrand	labeled	1181	Possible
Harry LeGrand	labeled	1742, 2548, 2669, 2670, 2791, 2914, 4199, 4200, 4201, 4334, 4335, 4470, 4606, 4743	Predicted
John Gerwin	labeled	1959, 2312, 2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPBJ18080 CATHARUS FUSCESCENS</u>		<u>VEERY</u>	
John Groves	labeled	4070	Confirmed
Harry LeGrand	labeled	3415, 3416, 3675	Possible
Harry LeGrand	labeled	3543, 3544, 3672, 3674, 3937, 4069, 4071, 4200, 4201, 4204, 4338, 4473, 4606, 4743	Predicted
<u>ABPBJ18110 CATHARUS GUTTATUS</u>		<u>HERMIT THRUSH</u>	
John Gerwin	labeled	4071	Confirmed
Harry LeGrand	labeled	3672, 3673, 3802, 3803, 3805, 3934, 4067, 4068, 4202, 4335, 4336, 4470, 4606	Possible
<u>ABPBJ19010 HYLOCICHLA MUSTELINA</u>		<u>WOOD THRUSH</u>	
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294, 1629,	Absent
John Groves	labeled	2549	Confirmed
Harry LeGrand	labeled	1181, 1288, 1290, 1742, 1856, 1971, 2086, 2202, 2548, 2669, 2670, 2791, 2914	Predicted
Internal Review	labeled	1179, 1286, 1287	Predicted
John Gerwin	labeled	1959, 2550, 2792, 3292, 3419	Confirmed
<u>ABPBJ20170 TURDUS MIGRATORIUS</u>		<u>AMERICAN ROBIN</u>	
Harry LeGrand	labeled	1960, 2075, 2548, 2669, 2670, 2791, 2914	Predicted
John Groves	labeled	1959, 2549	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184	Absent
John Gerwin	labeled	1289, 2312, 2550, 2792, 3292, 3419	Confirmed
<u>ABPBK01010 DUMETELLA CAROLINENSIS</u>		<u>GRAY CATBIRD</u>	
Harry LeGrand	labeled	1290, 1617, 1730, 1742, 1844, 1845, 1959, 2075, 2429, 2548, 2549, 2669, 2670, 2791, 2792, 2914, 2922, 3038, 3045, 3046, 3170, 3295, 3422	Predicted
John Gerwin	labeled	3419	Confirmed
<u>ABPBK03010 MIMUS POLYGLOTTOS</u>		<u>NORTHERN MOCKINGBIRD</u>	
John Groves	labeled	2549	Confirmed
John Gerwin	labeled	1959, 2550, 2792, 3292, 3419	Confirmed
Harry LeGrand	labeled	1072, 1073, 1180, 1181, 1289, 1290, 2548, 2669, 2670, 2791, 2914, 4745	Predicted
<u>ABPBK06010 TOXOSTOMA RUFUM</u>		<u>BROWN THRASHER</u>	
Harry LeGrand	labeled	1179, 1180, 1181, 1288, 1289, 1290, 2548, 2669, 2670, 2791, 2914, 4199, 4200, 4201, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4473, 4606, 4609, 4743	Predicted

John Gerwin	labeled	1959, 2550, 2792, 3292, 3419	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPBN01020</u>	<u>BOMBYCILLA CEDRORUM</u>		<u>CEDAR WAXWING</u>
John Gerwin	labeled	2549, 3419, 3546	Confirmed
Harry LeGrand	labeled	3415, 3543, 4204, 4338, 4473, 4606, 4609, 4743, 4882	Predicted
<u>ABPBR01030</u>	<u>LANIUS LUDOVICIANUS</u>		<u>LOGGERHEAD SHRIKE</u>
John Gerwin	labeled	2312, 2436, 2555, 2556, 2676	Confirmed
Harry LeGrand	labeled	1742, 1855, 1856, 1963, 1966, 1967, 1968, 1969, 1970, 2081, 2082, 2083, 2084, 2085, 2086, 2197, 2198, 2201, 2202, 2319, 2795, 2796, 2917, 2919, 2922, 3041, 3042, 3046, 3166, 3167, 3170, 3295, 3420, 3421, 3422	Predicted
Harry LeGrand	labeled	1736, 2669, 2670, 2791, 2792, 2914, 2915, 3038, 3039, 3163, 3164, 3289, 3415, 3418, 3545, 3546, 3547, 3674, 3675, 3676,	Possible
<u>ABPBT01010</u>	<u>STURNUS VULGARIS</u>		<u>EUROPEAN STARLING</u>
John Gerwin	labeled	1959, 2312, 2550, 3419	Confirmed
Harry LeGrand	labeled	1074, 1180, 1181, 1290, 2548, 2669, 2670, 2791, 2914, 4204, 4334, 4335, 4337, 4338, 4470, 4471, 4473, 4606, 4609, 4743,	Predicted
Harry LeGrand	labeled	4744	Confirmed
John Groves	labeled	2549, 2792	Confirmed
<u>ABPBW01020</u>	<u>VIREO GRISEUS</u>		<u>WHITE-EYED VIREO</u>
John Gerwin	labeled	1959, 2318, 2550	Confirmed
John Groves	labeled	2549, 3419	Confirmed
Harry LeGrand	labeled	1074, 1179, 1181, 1290, 1293, 1403, 2548, 2669, 2670, 2791, 2914, 3291, 3292, 3418, 3420, 3546, 3547, 3675, 3802, 3803, 3934, 4066, 4199, 4201, 4334, 4335, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743	Predicted
<u>ABPBW01160</u>	<u>VIREO SOLITARIUS</u>		<u>BLUE-HEADED VIREO</u>
Harry LeGrand	labeled	2431, 2555	Confirmed
Harry LeGrand	labeled	2075, 2076, 2077, 2078, 2079, 2196, 2197, 2315, 2316, 2434, 2435, 2436, 2556	Possible
Harry LeGrand	labeled	2192, 2193, 2311, 2312, 2313, 2429, 2430, 2550, 2551, 2554	Predicted
John Gerwin	labeled	2552, 3419	Confirmed
<u>ABPBW01170</u>	<u>VIREO FLAVIFRONS</u>		<u>YELLOW-THROATED VIREO</u>
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1291, 1294	Absent
Harry LeGrand	labeled	1512, 1513, 1617, 1618, 1619, 1620, 1621, 1624, 1730, 1731, 1844, 2075, 2086, 2201, 2202, 2319, 2429, 2548, 2669, 2670, 2791, 2914, 2922, 3045, 3046, 3166, 3167, 3169, 3170, 3291, 3293, 3294, 3295, 3418, 3419, 3420, 3421, 3422, 3547, 3548, 4199, 4200, 4201, 4334, 4335, 4470, 4606, 4743	Predicted
John Gerwin	labeled	2671	Confirmed
John Groves	labeled	1959, 2549, 2550, 2792	Confirmed
<u>ABPBW01210</u>	<u>VIREO GILVUS</u>		<u>WARBLING VIREO</u>
Harry LeGrand	labeled	1846, 4337, 4338, 4472	Historic
John Gerwin	labeled	1961, 2076, 2192, 2193	Absent
<u>ABPBW01240</u>	<u>VIREO OLIVACEUS</u>		<u>RED-EYED VIREO</u>
John Gerwin	labeled	1959, 2550, 2792, 3292, 3419	Confirmed

John Groves	labeled	2549	Confirmed
Harry LeGrand	labeled	1742, 1856, 2548, 2669, 2670, 2791, 2914, 4199, 4334, 4338, 4473, 4606, 4609, 4743	Predicted
<u>ABPBX01020 VERMIVORA PINUS</u>		<u>BLUE-WINGED WARBLER</u>	
Harry LeGrand	labeled	4071, 4204, 4338, 4473	Possible
Harry LeGrand	labeled	4607, 4608, 4609, 4745, 4882	Predicted
John Gerwin	labeled	3290, 3416, 3937, 4069, 4201, 4202	Possible
John Gerwin	labeled	3164, 3289	Predicted
<u>ABPBX01030 VERMIVORA CHRYSOPTERA</u>		<u>GOLDEN-WINGED WARBLER</u>	
Harry LeGrand	labeled	3804, 3936, 4068, 4069, 4200, 4201, 4335, 4338, 4470, 4606, 4608, 4743, 4744	Predicted
Harry LeGrand	labeled	3415, 3544, 3674, 3805	Possible
Harry LeGrand	labeled	4204	Confirmed
<u>ABPBX02010 PARULA AMERICANA</u>		<u>NORTHERN PARULA</u>	
Harry LeGrand	labeled	1960, 2075, 2076, 2192, 2310, 2311, 2429, 2548, 2549, 2669, 2670, 2671, 2791, 2793, 2914, 2915, 3038, 3163	Predicted
John Gerwin	labeled	3419	Confirmed
John Groves	labeled	1959, 2550, 2792	Confirmed
Lamar Gore	labeled	1395	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630	Absent
<u>ABPBX03010 DENDROICA PETECHIA</u>		<u>YELLOW WARBLER</u>	
Harry LeGrand	labeled	3163, 3289, 3415, 3417, 3675, 3805, 3806, 4204, 4337, 4338, 4471, 4473, 4606, 4609, 4743, 4745, 4882	Predicted
John Gerwin	labeled	3419	Confirmed
<u>ABPBX03020 DENDROICA PENNSYLVANICA</u>		<u>CHESTNUT-SIDED WARBLER</u>	
Harry LeGrand	labeled	3415, 3543, 3544, 3672, 3805, 3806, 4199, 4200, 4334, 4338, 4473, 4606, 4609, 4743, 4745, 4882	Predicted
John Gerwin	labeled	4204	Confirmed
<u>ABPBX03050 DENDROICA CAERULESCENS</u>		<u>BLACK-THROATED BLUE WARBLER</u>	
Harry LeGrand	labeled	3805, 4199, 4338, 4473, 4609, 4745	Predicted
Harry LeGrand	labeled	3415, 3675, 3676, 3677, 3806, 3808	Possible
<u>ABPBX03100 DENDROICA VIRENS</u>		<u>BLACK-THROATED GREEN WARBLER</u>	
John Gerwin	labeled	2796, 2797	Possible
John Gerwin	labeled	3546	Confirmed
Harry LeGrand	labeled	1398, 1399, 1403, 1509, 1510, 1513, 1621, 1625, 3415, 3416, 3543, 3672, 3677, 3802, 4338, 4473, 4609	Predicted
Harry LeGrand	labeled	1617, 1618, 2919, 3676, 4204	Confirmed
Harry LeGrand	labeled	1734, 2085, 2086, 3548	Possible
<u>ABPBX03120 DENDROICA FUSCA</u>		<u>BLACKBURNIAN WARBLER</u>	
Harry LeGrand	labeled	3803, 3804, 3935, 4203, 4204	Confirmed
Harry LeGrand	labeled	3415, 3416, 3544, 3674	Possible
Harry LeGrand	labeled	3673, 3802, 3805, 4067, 4071, 4201, 4338, 4606, 4743	Predicted
Internal Review	labeled	3934, 4066, 4199, 4200, 4334	Predicted

ABPBX03130 DENDROICA DOMINICA**YELLOW-THROATED WARBLER**

Harry LeGrand	labeled	1179, 1181, 1286, 1290, 1293, 1395, 1403, 1617, 1618, 1619, 1730, 1731, 1732, 1742, 1844, 1845, 1856, 1960, 1971, 2075, 2076, 2084, 2085, 2086, 2200, 2201, 2317, 2319, 2548, 2669, 2670, 2671, 2672, 2791, 2793, 2794, 2914, 2915, 2916, 2917, 3038, 3039, 3040, 3163, 3169, 3293, 3294, 3295, 3416, 3417, 3418, 3420, 3421, 3422, 3544, 3545, 3546, 3547, 3548, 3549, 3674, 3675, 3676, 3677, 3678, 3805, 4743, 4882	Predicted
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294, 1629, 1630	Absent
Harry LeGrand	labeled	3673, 3802, 3803, 3804, 3934, 3935, 4066, 4067	Possible
John Groves	labeled	1959, 2318, 2549, 2550, 2792, 3419	Confirmed

ABPBX03170 DENDROICA PINUS**PINE WARBLER**

Harry LeGrand	labeled	1180, 1181, 1290, 2548, 2669, 2670, 2791, 2914	Predicted
John Gerwin	labeled	1959, 2550, 3419, 4204	Confirmed
John Groves	labeled	2549	Confirmed
Harry LeGrand	labeled	1183, 1184, 1294, 1629, 1630	Absent

ABPBX03190 DENDROICA DISCOLOR**PRAIRIE WARBLER**

Harry LeGrand	labeled	1074, 1181, 1182, 1290, 1742, 1856, 2075, 2201, 2202, 2319, 2436, 2437, 2548, 2556, 2557, 2669, 2670, 2791, 2914, 3044, 3165, 3169, 3291, 3292, 3295, 3415, 3418, 3422, 3543, 3548, 3549, 3673, 3674, 3675, 3676, 3802	Predicted
John Gerwin	labeled	2550, 3419, 4204	Confirmed
John Groves	labeled	1959, 2318, 2549, 2792	Confirmed

ABPBX03240 DENDROICA CERULEA**CERULEAN WARBLER**

Chris McGrath	labeled	3805, 4204	Confirmed
Internal Review	labeled	1621, 1734	Possible
Harry LeGrand	labeled	1733, 1846, 1847, 1960	Predicted
Harry LeGrand	labeled	2075, 2076, 3544, 3673, 3674, 3807, 3808, 3937, 4069, 4472,	Confirmed
Harry LeGrand	labeled	2080, 2196, 2197, 3415, 3416, 3543, 3672, 3802, 3934, 3935, 3938, 3939, 4066, 4067, 4070, 4071, 4199, 4200, 4334, 4470, 4606, 4609, 4743, 4744, 4745, 4882	Possible

ABPBX05010 MNIOTILTA VARIA**BLACK-AND-WHITE WARBLER**

Harry LeGrand	labeled	1288, 1618	Confirmed
Harry LeGrand	labeled	1287, 1292, 1293, 1741, 1742, 1856, 1971	Possible
Harry LeGrand	labeled	1180, 1181, 1290, 1398, 1399, 1400, 1507, 1510, 1511, 1619, 1624, 1625, 1627, 1730, 1731, 1845, 1855, 1959, 1960, 1970, 2075, 2076, 2086, 2192, 2199, 2200, 2201, 2202, 2310, 2316, 2317, 2319, 2556, 3415, 3417, 3418	Predicted
Internal Review	labeled	1179, 1286, 1515, 1628, 1629, 1630	Possible
John Gerwin	labeled	2318, 2552, 3676, 4204	Confirmed
John Groves	labeled	3546	Confirmed

ABPBX06010 SETOPHAGA RUTICILLA**AMERICAN REDSTART**

John Groves	labeled	1959	Confirmed
Harry LeGrand	labeled	1506, 1618, 1960, 2076	Confirmed
Harry LeGrand	labeled	1290, 1292, 1399, 1403, 1514, 1625, 1626, 1627, 1738, 1739, 1740, 1741, 1742, 1855, 1856, 1971	Possible

Harry LeGrand	labeled	1507, 1730, 1731, 1844, 1848, 1849, 1850, 1962, 1963, 1964, 2075, 2081, 2084, 2085, 2192, 2198, 2201, 2202, 2310, 2311, 2316, 2317, 2319, 2429, 2430, 2431, 2436, 2437, 2548, 2549, 2550, 2556, 2669, 2670, 2671, 2791, 2792, 2914, 2919, 3038, 3042, 3043, 3167, 3168, 3291, 3292, 3293, 3294, 3295, 3415, 3418, 3419, 3420, 3546, 3547, 3675, 3676, 3805, 3806, 3935, 3936, 4200, 4204, 4334, 4337, 4338, 4471, 4473, 4606, 4609,	Predicted
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ABPBX07010 PROTONOTARIA CITREA

PROTHONOTARY WARBLER

Harry LeGrand	labeled	3289, 3417, 3545, 3675, 3808	Possible
Harry LeGrand	labeled	1074, 1181, 1290, 1730, 1844, 1856, 2192, 2310, 2430, 2431, 2550, 2671, 2672, 2674, 2675, 2793, 2794, 2795, 2796, 2797, 2917, 2918, 3041, 3042, 3043, 3044, 3166, 3167, 3169, 3293, 3295, 3420, 3421, 3422, 3548, 3549, 3677, 3678	Predicted
John Gerwin	labeled	2792, 3419	Confirmed
John Groves	labeled	1959, 2075	Confirmed
Walker Golder	labeled	1742, 1855, 1970	Confirmed

ABPBX08010 HELMITHEROS VERMIVORUS

WORM-EATING WARBLER

Harry LeGrand	labeled	2551, 3291	Possible
John Gerwin	labeled	2318, 2550, 2792, 3546, 3676	Confirmed
Harry LeGrand	labeled	1181, 1290, 1399, 1509, 1510, 1512, 1621, 1622, 1624, 1731, 1853, 1968, 1969, 3419, 4470, 4606, 4743, 4882	Predicted
Harry LeGrand	labeled	1288, 1506, 1618, 3418	Confirmed
Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294	Absent
Internal Review	labeled	1515, 1628, 1629, 1630, 2431, 2670, 2671, 2672, 2793, 2915	Possible

ABPBX09010 LIMNOTHLYPIS SWAINSONII

SWAINSON'S WARBLER

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1294	Absent
Harry LeGrand	labeled	1288, 1618, 1620, 2080, 2197, 3674, 4607	Confirmed
Harry LeGrand	labeled	1180, 1290, 1292, 1293, 1396, 1403, 1507, 1617, 1619, 1730, 1731, 1732, 1737, 1738, 1742, 1844, 1845, 1846, 1847, 1848, 1850, 1851, 1852, 1856, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1971, 2076, 2081, 2082, 2083, 2084, 2086, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2317, 2319, 2435, 2436, 2437, 2556, 2676, 2677, 3416, 3544, 3673, 3675, 4744	Predicted
Internal Review	labeled	1179, 1181, 1286, 1287, 1395, 1397, 1400, 1401, 1508, 1627, 1628, 1629, 1630	Predicted
John Gerwin	labeled	3676, 4204	Confirmed
John Groves	labeled	1959, 2075, 2318	Confirmed

ABPBX10010 SEIURUS AUROCAPILLUS

OVENBIRD

Harry LeGrand	labeled	1180, 1181, 1288, 1290, 1403, 1625, 1737, 1738, 1851, 1852, 1966, 1967, 1970, 2075, 2081, 2082, 2086, 2200, 2201, 2202, 2317, 2319, 2436, 2548, 2556, 2557, 2669, 2670, 2671, 2677, 2791, 2914, 2922, 3043, 3044, 3045, 3046, 3167, 3168, 3169, 3170, 3291, 3292, 3293, 3294, 3295, 3418, 3419, 3420, 3422,	Predicted
Internal Review	labeled	1179, 1515, 1628, 1629, 1630	Possible
John Gerwin	labeled	4204	Confirmed
Harry LeGrand	labeled	1287, 1292, 1293, 1627, 1741, 1742, 1856, 1971	Possible
John Groves	labeled	1959, 2318, 2549, 2550, 2792, 3676	Confirmed

ABPBX10030 SEIURUS MOTACILLA

LOUISIANA WATERTHRUSH

Harry LeGrand	labeled	967, 1072, 1073, 1074, 1179, 1182, 1291	Absent
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Harry LeGrand	labeled	1739, 1855	Possible
Harry LeGrand	labeled	1617, 1621, 1730, 1844, 1852, 1959, 1966, 2075, 2081, 2082, 2083, 2198, 2200, 2201, 2317, 2318, 2319, 2429, 2437, 2548, 2549, 2557, 2669, 2670, 2671, 2791, 2793, 2794, 2799, 2914, 2915, 2916, 2917, 2922, 3038, 3039, 3040, 3041, 3042, 3045, 3046, 3163, 3166, 3167, 3169, 3170, 3289, 3291, 3292, 3293, 3294, 3295, 3415, 3418, 3419, 3420, 3421, 3422, 3548, 3549, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3934, 3935, 4066,	Predicted
Internal Review	labeled	1181	Possible
John Gerwin	labeled	4204	Confirmed
John Groves	labeled	2792, 3546	Confirmed

ABPBX11010 OPORORNIS FORMOSUS

KENTUCKY WARBLER

Internal Review	labeled	3935, 4066, 4067, 4199, 4200, 4201, 4334, 4470, 4606, 4743	Predicted
John Gerwin	labeled	1289	Confirmed
Harry LeGrand	labeled	1180, 1513, 1621, 1624, 1625, 1731, 1732, 1737, 1738, 1844, 1845, 1851, 1852, 1966, 1967, 1968, 2075, 2080, 2081, 2082, 2083, 2084, 2192, 2196, 2198, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2431, 2434, 2435, 2437, 2548, 2549, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2675, 2676, 2791, 2792, 2793, 2794, 2914, 2915, 2916, 2917, 3038, 3039, 3040, 3041, 3042, 3163, 3166, 3167, 3168, 3289, 3291, 3292, 3293, 3294, 3295, 3415, 3418, 3419, 3420, 3421, 3422, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 4471	Predicted
Harry LeGrand	labeled	2197	Confirmed
John Groves	labeled	1959, 2550, 3546	Confirmed

ABPBX12010 GEOTHLYPIS TRICHAS

COMMON YELLOWTHROAT

Harry LeGrand	labeled	1074, 1293, 1403, 2548, 2669, 2670, 2791, 2914, 4334, 4335, 4470, 4471, 4606, 4743	Predicted
Internal Review	labeled	1181, 1182, 1183, 1184, 1294, 1629, 1630	Predicted
John Gerwin	labeled	1959, 2550, 2792, 3419, 4204	Confirmed
John Groves	labeled	2549	Confirmed

ABPBX16010 WILSONIA CITRINA

HOODED WARBLER

Harry LeGrand	labeled	967, 1072, 1073, 1182, 1183, 1184, 1291, 1294	Absent
Harry LeGrand	labeled	1181, 1288, 1290, 1293, 1399, 1400, 1403, 1742, 1856, 1971, 2086, 2201, 2202, 2319, 2429, 2548, 2549, 2669, 2670, 2671, 2791, 2792, 2793, 2794, 2799, 2914, 2917, 2921, 2922, 3039, 3040, 3041, 3042, 3043, 3044, 3046, 3165, 3166, 3167, 3168, 3291, 3292, 3293, 3294, 3295, 3418, 3419, 3420, 3421, 3422,	Predicted
Internal Review	labeled	1628, 1629, 1630	Possible
John Gerwin	labeled	1959, 4204	Confirmed

ABPBX16030 WILSONIA CANADENSIS

CANADA WARBLER

Harry LeGrand	labeled	3805, 4066, 4334, 4338, 4473, 4609, 4745	Predicted
Harry LeGrand	labeled	3415, 3416, 3544, 3674	Possible
Harry LeGrand	labeled	4204	Confirmed

ABPBX24010 ICTERIA VIRENS

YELLOW-BREASTED CHAT

Harry LeGrand	labeled	1291	Absent
Harry LeGrand	labeled	1179, 1287, 1290, 1293, 1403, 1742, 2086, 2201, 2202, 2319, 2548, 2669, 2670, 2791, 2914, 3415, 3543, 3803, 3804, 3934, 4066, 4199, 4334, 4337, 4338, 4470, 4471, 4472, 4473, 4606,	Predicted
Internal Review	labeled	1184, 1294, 1629, 1630	Possible

John Gerwin	labeled	1959, 2318, 2550, 2792, 3292, 3419	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPBX45030</u>	<u>PIRANGA RUBRA</u>		<u>SUMMER TANAGER</u>
Harry LeGrand	labeled	1742, 2086, 2201, 2202, 2319, 2548, 2669, 2670, 2791, 2914, 3289, 3290, 3293, 3416, 3417, 3418, 3420, 3545, 3547, 3548, 3675, 3676, 3806	Predicted
John Gerwin	labeled	1959, 2550, 2792	Confirmed
John Groves	labeled	2549, 3419	Confirmed
<u>ABPBX45040</u>	<u>PIRANGA OLIVACEA</u>		<u>SCARLET TANAGER</u>
Harry LeGrand	labeled	1395, 1509, 1621, 1622, 1736, 1737, 1850, 1851, 1852, 1853, 1966, 1970, 2086, 2202	Possible
John Groves	labeled	1959, 2549, 3292, 3419	Confirmed
Harry LeGrand	labeled	1617, 1730, 1731, 1732, 1734, 1844, 1845, 1846, 1847, 1848, 1960, 1961, 1962, 1963, 1964, 1965, 2075, 2077, 2078, 2079, 2080, 2081, 2197, 2198, 2317, 2429, 2436, 2437, 2548, 2669, 2670, 2791, 2914, 2922, 3046, 3169, 3291, 3293, 3294, 3295, 3418, 3420, 3421, 3422, 3549	Predicted
Harry LeGrand	labeled	1618	Confirmed
John Gerwin	labeled	2550, 4204	Confirmed
<u>ABPBX60010</u>	<u>CARDINALIS CARDINALIS</u>		<u>NORTHERN CARDINAL</u>
John Gerwin	labeled	1959, 2549, 2550, 2792, 3292, 3419	Confirmed
<u>ABPBX61030</u>	<u>PHEUCTICUS LUDOVICIANUS</u>		<u>ROSE-BREASTED GROSBEAK</u>
Harry LeGrand	labeled	4204	Confirmed
Harry LeGrand	labeled	3415, 3543, 4338, 4473, 4609, 4745	Predicted
<u>ABPBX63010</u>	<u>GUIRACA CAERULEA</u>		<u>BLUE GROSBEAK</u>
Harry LeGrand	labeled	3673, 4607, 4743	Possible
Harry LeGrand	labeled	1180, 1181, 1742, 1856, 2548, 2669, 2670, 2791, 2914, 3675, 4473, 4609, 4744, 4745, 4882	Predicted
John Gerwin	labeled	1959, 2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPBX64030</u>	<u>PASSERINA CYANEA</u>		<u>INDIGO BUNTING</u>
Harry LeGrand	labeled	2548, 2669, 2670, 2791, 2914	Predicted
John Gerwin	labeled	1959, 2550, 2792, 3419, 4204	Confirmed
John Groves	labeled	2549	Confirmed
<u>ABPBX64060</u>	<u>PASSERINA CIRIS</u>		<u>PAINTED BUNTING</u>
John Gerwin	labeled	1292	Confirmed
Harry LeGrand	labeled	1293, 1403, 1514	Confirmed
Walker Golder	labeled	1742	Confirmed
Harry LeGrand	labeled	1970	Possible
Harry LeGrand	labeled	1855	Predicted
Internal Review	labeled	1629, 1630	Predicted
Internal Review	labeled	1625, 1738, 1739	Absent
<u>ABPBX65010</u>	<u>SPIZA AMERICANA</u>		<u>DICKCISSEL</u>
Harry LeGrand	labeled	1182, 1291, 3415, 3544, 3674, 3805	Absent

Harry LeGrand	labeled	1179, 1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3545, 3546, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 3806, 3807, 3808	Possible
Harry LeGrand	labeled	4068	Excluded
<u>ABPBX74030 PIPLO ERYTHROPHthalmus</u>		<u>EASTERN TOWHEE</u>	
John Groves	labeled	2549	Confirmed
John Gerwin	labeled	1959, 2550, 2792, 3419, 4204	Confirmed
Harry LeGrand	labeled	1074, 1182, 1183, 2548, 2669, 2670, 2791, 2914	Predicted
<u>ABPBX91050 AIMOPHILA AESTIVALIS</u>		<u>BACHMAN'S SPARROW</u>	
Harry LeGrand	labeled	1292, 1293, 1402, 1852, 2194, 2311, 2312, 2313, 2314, 2429, 2430, 2431, 2432	Possible
Harry LeGrand	labeled	1625, 1742, 1853, 2677	Predicted
Harry LeGrand	labeled	1403, 1513, 1739, 2433, 2555, 2556, 2676	Confirmed
<u>ABPBX94020 SPIZELLA PASSERINA</u>		<u>CHIPPING SPARROW</u>	
John Gerwin	labeled	1959, 2550, 2792, 3419	Confirmed
John Groves	labeled	2549	Confirmed
Internal Review	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184	Absent
Harry LeGrand	labeled	1513, 2548, 2669, 2670, 2791, 2914	Predicted
<u>ABPBX94050 SPIZELLA PUSILLA</u>		<u>FIELD SPARROW</u>	
John Groves	labeled	2549	Confirmed
John Gerwin	labeled	1959, 2318, 2550, 2792, 3292, 3419	Confirmed
Harry LeGrand	labeled	1179, 1287, 1513, 1624, 1625, 1737, 1738, 1851, 1852, 2548, 2669, 2670, 2791, 2914, 4199, 4200, 4334, 4335, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743	Predicted
<u>ABPBX95010 PPOECETES GRAMINEUS</u>		<u>VESPER SPARROW</u>	
Harry LeGrand	labeled	3544	Predicted
Harry LeGrand	labeled	3415, 3674, 3936, 4066, 4067, 4068, 4199, 4200, 4201, 4334	Possible
<u>ABPBX96010 CHONDESTES GRAMMACUS</u>		<u>LARK SPARROW</u>	
Harry LeGrand	labeled	2435	Confirmed
Harry LeGrand	labeled	2316	Predicted
<u>ABPBX99010 PASSERCULUS SANDWICHENSIS</u>		<u>SAVANNAH SPARROW</u>	
Harry LeGrand	labeled	3543, 3672, 3673	Predicted
Harry LeGrand	labeled	3544, 3674, 3804	Possible

Harry LeGrand	labeled	1854		Excluded
<u>ABPBXA0020</u>		<u>AMMODRAMUS SAVANNARUM</u>		<u>GRASSHOPPER SPARROW</u>
John Gerwin	labeled	2312, 2792		Confirmed
Harry LeGrand	labeled	1959, 1960, 1962, 1963, 2075, 2078, 2079, 2080, 2192, 2197, 2310, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2434, 2436, 2548, 2549, 2551, 2552, 2553, 2554, 2555, 2556, 2669, 2670, 2673, 2674, 2791, 2796, 2914, 3291, 3294, 3295, 3418, 3420, 3421, 3422, 3546, 3674, 3675, 3802		Predicted
Harry LeGrand	labeled	1617, 1618, 1730, 1731, 1736, 1737, 1738, 1739, 1844, 1845, 1849, 1850, 1851, 1852, 1853, 1964, 1965, 1966, 1967, 1968, 2081, 2082, 2083, 2084, 2198, 2200		Possible
John Groves	labeled	2550, 3292, 3419		Confirmed
<u>ABPBXA0030</u>		<u>AMMODRAMUS HENSLOWII</u>		<u>HENSLOW'S SPARROW</u>
Harry LeGrand	labeled	1183, 1184, 1291, 1294, 1515, 1628, 1629, 1630		Absent
Harry LeGrand	labeled	1855		Predicted
Harry LeGrand	labeled	1621, 1622, 1734		Confirmed
Harry LeGrand	labeled	1617, 1730, 1844, 1849		Possible
<u>ABPBXA0060</u>		<u>AMMODRAMUS MARITIMUS</u>		<u>SEASIDE SPARROW</u>
Harry LeGrand	labeled	1396		Possible
Walker Golder	labeled	1293, 1403, 1742		Confirmed
John Groves	labeled	1072, 1073, 1183		Confirmed
Harry LeGrand	labeled	1074, 1179, 1180, 1181, 1182, 1290, 1400, 1401, 1402, 1626, 1627, 1740, 1741, 1856, 1971		Predicted
Internal Review	labeled	1184, 1294, 1515, 1628, 1629, 1630		Predicted
<u>ABPBXA3010</u>		<u>MELOSPIZA MELODIA</u>		<u>SONG SPARROW</u>
Harry LeGrand	labeled	1180, 1181, 1288, 1289, 1290, 1291, 1294, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1731, 1732, 1733, 1736, 1845, 1846, 1960, 1961		Absent
Harry LeGrand	labeled	1182, 1183, 1292, 2310, 2311, 2429, 2430, 2548, 2549, 2550, 2669, 2670, 2671, 2791, 2792, 2914, 2919, 2920, 3043, 3044		Predicted
Harry LeGrand	labeled	2085		Excluded
Harry LeGrand	labeled	2675, 2798, 2921, 2922, 3045, 3046, 3170		Possible
Internal Review	labeled	1184		Possible
John Gerwin	labeled	3419		Confirmed
<u>ABPBXA5020</u>		<u>JUNCO HYEMALIS</u>		<u>DARK-EYED JUNCO</u>
Harry LeGrand	labeled	4204		Confirmed
Harry LeGrand	labeled	3416		Possible
Harry LeGrand	labeled	3415, 4338, 4473, 4609, 4745		Predicted
<u>ABPBXA9010</u>		<u>DOLICHONYX ORYZIVORUS</u>		<u>BOBOLINK</u>
Harry LeGrand	labeled	3673		Confirmed
Harry LeGrand	labeled	3415, 3544, 3674, 3675, 3802, 3803, 3804, 3805, 3806, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743,		Possible

<u>ABPBXB0010</u>		<u>AGELAIUS PHOENICEUS</u>		<u>RED-WINGED BLACKBIRD</u>	
Harry LeGrand	labeled	1618, 1619, 1730, 1731, 1844, 1845, 2075, 2548, 2669, 2670, 2791, 2914			Predicted
John Gerwin	labeled	1289, 1290, 2318, 2550, 2792, 3292, 3419			Confirmed
John Groves	labeled	1959, 2549			Confirmed
<u>ABPBXB2020</u>		<u>STURNELLA MAGNA</u>		<u>EASTERN MEADOWLARK</u>	
John Gerwin	labeled	2312, 2318, 2550, 2792, 3292, 3419			Confirmed
John Groves	labeled	1959			Confirmed
Internal Review	labeled	1181, 1184, 1294, 1628, 1629, 1630			Predicted
Harry LeGrand	labeled	1072, 1073, 1179, 1182, 1183, 1290, 1730, 1741, 1742, 1844, 1855, 1856, 2075, 2548, 2549, 2669, 2670, 2791, 2914, 3934, 4066, 4199, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4744, 4745, 4882			Predicted
<u>ABPBXB6060</u>		<u>QUISCALUS MAJOR</u>		<u>BOAT-TAILED GRACKLE</u>	
Harry LeGrand	labeled	1181			Predicted
John Gerwin	labeled	1403			Confirmed
Harry LeGrand	labeled	1846			Absent
<u>ABPBXB6070</u>		<u>QUISCALUS QUISCULA</u>		<u>COMMON GRACKLE</u>	
Harry LeGrand	labeled	1074, 1181, 1742, 1856, 2548, 2669, 2670, 2791, 2914			Predicted
John Gerwin	labeled	1959, 2312, 2550, 2792, 3292, 3419			Confirmed
John Groves	labeled	2549			Confirmed
<u>ABPBXB7030</u>		<u>MOLOTHRUS ATER</u>		<u>BROWN-HEADED COWBIRD</u>	
John Groves	labeled	1959, 2549, 2792			Confirmed
Harry LeGrand	labeled	1074, 1181, 1290, 2075, 2548, 2669, 2670, 2671, 2791, 2914, 4066, 4199, 4200, 4334, 4338, 4470, 4471, 4473, 4606, 4609,			Predicted
John Gerwin	labeled	2550, 3292, 3419			Confirmed
<u>ABPBXB9070</u>		<u>ICTERUS SPURIUS</u>		<u>ORCHARD ORIOLE</u>	
John Groves	labeled	2549, 2792			Confirmed
John Gerwin	labeled	2550, 3419			Confirmed
Harry LeGrand	labeled	1179, 1180, 1181, 1289, 1290, 1730, 1844, 1845, 1959, 2075, 2548, 2669, 2670, 2791, 2914, 2922, 3038, 3046, 3170, 3289,			Predicted
Harry LeGrand	labeled	3802, 3803, 4473, 4609, 4743, 4744, 4882			Possible
<u>ABPBXB9190</u>		<u>ICTERUS GALBULA</u>		<u>BALTIMORE ORIOLE</u>	
Harry LeGrand	labeled	2914, 3038, 3291, 3418, 3546, 3674, 3675, 3805, 3806			Possible
Harry LeGrand	labeled	3803			Predicted
John Gerwin	labeled	2791, 2792, 2794, 2795, 2796, 2797, 2798, 2799, 2919, 2920, 2921, 2922, 3042, 3043, 3044, 3045, 3046, 3166, 3167, 3168, 3169, 3170, 3292, 3293, 3294, 3295, 3419, 3420, 3421, 3422, 3547, 3548, 3549, 3676, 3677, 3678			Possible
<u>ABPBY04040</u>		<u>CARPODACUS MEXICANUS</u>		<u>HOUSE FINCH</u>	
Internal Review	labeled	1628, 1629, 1630			Possible
John Gerwin	labeled	2552, 3419			Confirmed

Harry LeGrand	labeled	1074, 1179, 1287, 1401, 1402, 1403, 1507, 1510, 1511, 1512, 1513, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1730, 1733, 1734, 1736, 1737, 1738, 1740, 1741, 1844, 1846, 1847, 1850, 1851, 1852, 1959, 1960, 1961, 1966, 1968, 1969, 2075, 2077, 2081, 2082, 2083, 2084, 2192, 2193, 2194, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2317, 2318, 2319, 2429, 2430, 2548, 2549, 2550, 2557, 2669, 2670, 2791, 2792, 2798, 2799, 2914, 2921, 2922, 3046, 4204, 4334, 4335, 4338, 4470,	Predicted
Harry LeGrand	labeled	1627, 1739, 1742, 1853, 1855, 1856, 1970, 1971, 2086	Possible
<u>ABPBY05010 LOXIA CURVIROSTRA</u>		<u>RED CROSSBILL</u>	
Harry LeGrand	labeled	3544, 3674, 3806	Possible
Harry LeGrand	labeled	3803, 3937, 4068, 4069, 4606	Predicted
John Gerwin	labeled	4472	Confirmed
Harry LeGrand	labeled	3804, 3805, 3935, 4070, 4335, 4336	Confirmed
<u>ABPBY06030 CARDUELIS PINUS</u>		<u>PINE SISKIN</u>	
Harry LeGrand	labeled	3415	Absent
Harry LeGrand	labeled	3543, 3544, 3672, 3673, 3674, 3802, 4200, 4201, 4334, 4337	Possible
Harry LeGrand	labeled	3804, 3805, 3937, 4069, 4070, 4202, 4470, 4606	Predicted
<u>ABPBY06110 CARDUELIS TRISTIS</u>		<u>AMERICAN GOLDFINCH</u>	
John Gerwin	labeled	2318, 2550, 2792, 3292, 3419	Confirmed
Harry LeGrand	labeled	1508, 1617, 1618, 1619, 1620, 1730, 1959, 2075, 2084, 2085, 2200, 2201, 2202, 2319, 2548, 2669, 2670, 2791, 2914	Predicted
Harry LeGrand	labeled	1180, 1181, 1287, 1288, 1289, 1290, 1292, 1293, 1398, 1399, 1400, 1624, 1625, 1626, 1627, 1737, 1738, 1739, 1740, 1741, 1742, 1855, 1856, 1971	Possible
Harry LeGrand	labeled	1182, 1291	Absent
John Groves	labeled	2549	Confirmed
<u>ABPBZ01010 PASSER DOMESTICUS</u>		<u>HOUSE SPARROW</u>	
Harry LeGrand	labeled	1072, 1073, 1074, 1179, 1180, 1182, 1288, 1289, 1290, 1627, 1742, 2548, 2669, 2670, 2791, 2914, 4204, 4334, 4335, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4609, 4743, 4744, 4745,	Predicted
John Groves	labeled	2549	Confirmed
Internal Review	labeled	967, 1181, 1183, 1184, 1294, 1515, 1628, 1629, 1630	Predicted
John Gerwin	labeled	2550, 3292, 3419	Confirmed
<u>AMAAA01010 DIDELPHIS VIRGINIANA</u>		<u>VIRGINIA OPOSSUM</u>	
Mark Jones	labeled	1618, 1619, 1620, 1730, 1731, 1732, 1733, 1844, 1846, 1847,	Confirmed

Perry Sumner	labeled	1180, 1181, 1182, 1183, 1184, 1289, 1290, 1291, 1292, 1293, 1294, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1621, 1622, 1623, 1624, 1626, 1627, 1628, 1629, 1630, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1742, 1845, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2318, 2319, 2429, 2430, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3044, 3045, 3046, 3167, 3168, 3169, 3170, 3295, 3422, 3543, 3672, 3802, 3808, 3934, 3938, 3939, 4066, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
David Webster	labeled	967, 1072, 1073, 1074, 1179, 1286, 1287, 1395	Confirmed
David Sawyer	labeled	3039, 3040, 3163, 3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3549, 3673, 3674, 3675, 3676, 3677, 3678, 3803, 3804, 3805, 3806, 3807, 3935, 3936, 3937, 4067	Confirmed

AMABA01010 SOREX CINEREUS

MASKED SHREW

David Webster	labeled	3804, 3805, 4068, 4203, 4607	Predicted
David Webster	labeled	4066, 4069, 4070, 4202, 4204, 4336, 4337, 4338, 4471, 4472, 4606, 4608, 4744	Confirmed
David Webster	labeled	3289, 3417, 3546, 3547, 3677, 3678	Absent

AMABA01060 SOREX LONGIROSTRIS

SOUTHEASTERN SHREW

David Webster	labeled	1179, 1181, 1287, 1292, 1293, 1395, 1397, 1398, 1399, 1400, 1401, 1509, 1510, 1512, 1515, 1617, 1621, 1622, 1623, 1624, 1626, 1627, 1628, 1629, 1730, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1742, 1844, 1846, 1847, 1850, 1854, 1856, 1959, 1960, 1961, 1963, 1964, 1965, 1967, 1968, 1970, 1971, 2075, 2076, 2077, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2201, 2202, 2310, 2311, 2312, 2315, 2316, 2317, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2548, 2549, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3546, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 3806, 3808, 4069	Predicted
David Webster	labeled	1180, 1288, 1289, 1290, 1396, 1507, 1511, 1619, 1620, 1731, 1732, 1740, 1741, 1845, 1848, 1849, 1851, 1852, 1853, 1962, 1966, 1969, 2078, 2079, 2080, 2081, 2195, 2313, 2314, 2318, 2437, 2550, 2675, 3545, 3806, 3808, 4069	Confirmed
David Webster	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1286, 1291, 1294,	Absent

AMABA01150 SOREX PALUSTRIS

WATER SHREW

David Webster	labeled	4743, 4744, 4882	Predicted
David Webster	labeled	4204, 4608	Confirmed

AMABA01180 SOREX FUMEUS

SMOKY SHREW

David Webster	labeled	3289	Absent
David Webster	labeled	3544, 3545, 3546, 3805, 4066, 4068, 4069, 4202, 4204, 4336, 4338, 4470, 4472, 4473, 4608, 4744	Confirmed

David Webster	labeled	3543, 3672, 3673, 3674, 3675, 3802, 3803, 3804, 3934, 3935, 3938, 3939, 4067, 4070, 4071, 4199, 4201, 4203, 4334, 4335, 4337, 4471, 4606, 4607, 4743	Predicted
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AMABA01210 SOREX DISPAR **LONG-TAILED SHREW**

David Webster	labeled	3805, 4066, 4202, 4470	Confirmed
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AMABA01250 SOREX HOYI **PYGMY SHREW**

David Webster	labeled	1731	Absent
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David Webster	labeled	3544, 3545, 3676, 3805, 3808, 3936, 3938, 3939, 4069, 4470,	Confirmed
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David Webster	labeled	1507, 1617, 1619, 3163, 3164, 3290, 3291, 3418, 3419, 3547, 3548, 3677, 3678	Possible
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David Webster	labeled	3289, 3415, 3416, 3417, 3543, 3546, 3672, 3673, 3674, 3675, 3802, 3803, 3804, 3934, 3935, 4066, 4067, 4068, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4334, 4336, 4471, 4606, 4609,	Predicted
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AMABA03010 BLARINA BREVICAUDA **NORTHERN SHORT-TAILED SHREW**

David Webster	labeled	1292, 1401, 1403, 1512, 1514, 1623, 1624, 1625, 1626, 1736, 1737, 1849, 1850, 1964, 1965, 2080, 2435, 2436, 2556	Possible
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David Sawyer	labeled	3544, 3675	Confirmed
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David Webster	labeled	1179, 1180, 1287, 1288, 1289, 1290, 1293, 1395, 1396, 1397,	Confirmed
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		1399, 1402, 1506, 1507, 1508, 1511, 1617, 1618, 1619, 1620, 1730, 1731, 1732, 1733, 1735, 1739, 1740, 1741, 1742, 1844, 1845, 1848, 1852, 1853, 1854, 1959, 1966, 1967, 2081, 2084, 2199, 2318, 2437, 2555, 2916, 3038, 3039, 3040, 3164, 3292, 3545, 3546, 3673, 3674, 3676, 3802, 3803, 3805, 3806, 3808, 3939, 4066, 4068, 4069, 4070, 4071, 4202, 4334, 4335, 4336, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743,	
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David Webster	labeled	1181, 1398, 1400, 1621, 1622, 1734, 1738, 1846, 1847, 1851, 1968, 2083, 2198, 2914, 2915, 3163, 3165, 3289, 3290, 3291, 3415, 3417, 3418, 3419, 3543, 3547, 3672, 3677, 3934, 4067, 4199, 4200, 4201, 4203, 4337	Predicted
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David Webster	labeled	967, 1072, 1073, 1074, 1182, 1286, 1630, 2313, 2314, 2432, 3293, 3678	Absent
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AMABA03020 BLARINA CAROLINENSIS **SOUTHERN SHORT-TAILED SHREW**

David Webster	labeled	1182, 1183, 1184, 1291, 1294, 3291	Absent
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David Webster	labeled	1179, 1287, 1395, 1398, 1399, 1506, 1507, 1510, 1625, 1735, 1737, 1845, 1846, 1848, 1854, 1963, 1965, 1966, 1969, 2075, 2076, 2078, 2079, 2192, 2195, 2196, 2197, 2199, 2310, 2311, 2312, 2317, 2429, 2434, 2435, 2552, 2670, 2676, 2793, 2794, 2796, 2797, 2798, 2916, 2917, 2920, 3045, 3166, 3167, 3169,	Confirmed
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David Webster	labeled	2914, 3165, 3547, 3807, 3808	Possible
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David Webster	labeled	967, 1072, 1073, 1074, 1180, 1181, 1286, 1288, 1289, 1290, 1292, 1293, 1396, 1397, 1400, 1401, 1403, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1736, 1738, 1739, 1740, 1741, 1844, 1847, 1849, 1850, 1851, 1852, 1853, 1856, 1959, 1960, 1961, 1964, 1970, 1971, 2077, 2080, 2081, 2082, 2085, 2086, 2193, 2194, 2198, 2201, 2202, 2318, 2319, 2430, 2436, 2437, 2548, 2549, 2550, 2553, 2554, 2556, 2557, 2669, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2799, 2915, 2918, 2919, 2921, 2922, 3040, 3041, 3042, 3043, 3044, 3046, 3168, 3170, 3292, 3295, 3420, 3421, 3422, 3548,	Predicted
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AMABA04010 CRYPTOTIS PARVA**LEAST SHREW**

David Webster	labeled	1072, 1180, 1181, 1182, 1183, 1184, 1286, 1289, 1292, 1293, 1294, 1396, 1397, 1399, 1401, 1403, 1506, 1509, 1510, 1512, 1513, 1514, 1515, 1617, 1618, 1621, 1622, 1623, 1626, 1627, 1628, 1629, 1630, 1730, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1852, 1855, 1856, 1959, 1960, 1961, 1963, 1964, 1965, 1968, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2317, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3677, 3678, 3802, 3805, 3806, 3936, 3937, 3938, 3939, 4070, 4071, 4201, 4202, 4203, 4334, 4335, 4337, 4471, 4472, 1291	Predicted
David Webster	labeled	1291	Absent
David Webster	labeled	967, 1073, 1179, 1287, 1288, 1290, 1395, 1398, 1400, 1507, 1511, 1620, 1624, 1732, 1740, 1851, 1853, 1854, 1966, 1969, 2081, 2199, 2313, 2318, 2437, 2916, 3169, 3545, 3546, 3676, 3807, 3808, 4069, 4204, 4338	Confirmed
David Webster	labeled	3803, 3804, 3934, 3935, 4066, 4067, 4068, 4199, 4200, 4336, 4470, 4606, 4743	Possible

AMABB03010 PARASCALOPS BREWERI**HAIRY-TAILED MOLE**

David Webster	labeled	3677, 3678	Absent
Chris McGrath	labeled	4069	Confirmed
David Webster	labeled	3806, 3937, 4338	Confirmed
David Webster	labeled	3803, 3934, 3935, 3936, 4066, 4067, 4068, 4200, 4201, 4337, 4470, 4471, 4606	Predicted
David Webster	labeled	3674, 3805	Possible

AMABB04010 SCALOPUS AQUATICUS**EASTERN MOLE**

David Sawyer	labeled	3416, 3544, 3675	Confirmed
David Webster	labeled	1182, 1183, 1184, 1291, 1294, 1630	Absent
David Webster	labeled	1074, 1287, 1395, 1506, 1514, 1740, 1853, 2197, 3938, 4069, 4201, 4202, 4608	Confirmed

David Webster	labeled	967, 1072, 1073, 1179, 1180, 1181, 1286, 1288, 1289, 1290, 1292, 1293, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1515, 1617, 1618, 1619, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3674, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3939, 4066, 4067, 4068, 4070, 4071, 4199, 4200, 4203, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4609,	Predicted
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AMABB05010 CONDYLURA CRISTATA

STAR-NOSED MOLE

David Webster	labeled	1853, 4204	Confirmed
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AMACC0101 MYOTIS LUCIFUGUS

LITTLE BROWN BAT

Chris McGrath	labeled	3805, 3807, 3935, 3936, 4070, 4336	Confirmed
Lisa Gatens	labeled	3164, 4071	Possible
David Webster	labeled	2313	Confirmed
Lisa Gatens	labeled	1731	Absent

AMACC0103 MYOTIS AUSTRORIPARIUS

SOUTHEASTERN BAT

Lisa Gatens	labeled	1731, 1969, 2201, 2202	Absent
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AMACC0110 MYOTIS SODALIS

INDIANA BAT

Chris McGrath	labeled	3807, 4743	Confirmed
Chris McGrath	labeled	4471	Predicted

AMACC0113 MYOTIS LEIBII

EASTERN SMALL-FOOTED BAT

Chris McGrath	labeled	3807, 4607	Confirmed
David Webster	labeled	4743	Confirmed

AMACC0115 MYOTIS SEPTENTRIONALIS

NORTHERN BAT

David Webster	labeled	4204	Confirmed
Chris McGrath	labeled	3807, 3808, 3935, 3937, 4069, 4070, 4471, 4607	Confirmed
Lisa Gatens	labeled	3676	Absent
Lisa Gatens	labeled	4071	Possible
David Webster	labeled	2313, 2314, 2431, 2432, 2433	Absent

AMACC0302 PIPISTRELLUS SUBFLAVUS

EASTERN PIPISTRELLE

Chris McGrath	labeled	2919, 3805, 3807, 3935, 4204, 4336, 4606	Confirmed
Lisa Gatens	labeled	1731, 2201, 3163, 3164, 3166, 3676, 3936, 4071	Possible

AMACC0401 EPTESICUS FUSCUS

BIG BROWN BAT

Chris McGrath	labeled	3804, 3807, 3935, 3939, 4070, 4338, 4471	Confirmed
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David Webster	labeled	2192, 2193, 2194, 2195, 2196, 2310, 2311, 2312, 2314, 2315, 2316, 2317, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3677, 3678, 3802, 3803, 3805, 3806, 3808, 3934, 3936, 3937, 3938, 4066, 4067, 4068, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
Lisa Gatens	labeled	1731	Possible

AMACC0501 LASIURUS BOREALIS **EASTERN RED BAT**

Chris McGrath	labeled	2919, 3808, 3938, 4070	Confirmed
David Webster	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2201, 2202, 2310, 2311, 2317, 2318, 2319, 2429, 2430, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3934, 3935, 3936, 3937, 3939, 4066, 4067, 4068, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473,	Predicted

AMACC0502 LASIURUS SEMINOLUS **SEMINOLE BAT**

Lisa Gatens	labeled	1969	Possible
Lisa Gatens	labeled	1731	Absent

AMACC0601 NYCTICEIUS HUMERALIS **EVENING BAT**

Lisa Gatens	labeled	1622	Possible
Lisa Gatens	labeled	1969	Predicted

AMACC0801 CORYNORHINUS TOWNSENDII **TOWNSEND'S BIG-EARED BAT**

Chris McGrath	labeled	3674	Possible
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AMACC0802 CORYNORHINUS RAFINESQUII **RAFINESQUE'S BIG-EARED BAT**

Chris McGrath	labeled	4335	Confirmed
Chris McGrath	labeled	3546, 3674, 3675, 3803, 3804, 3805, 3935, 3936, 4067	Possible
Chris McGrath	labeled	4201	Predicted
David Webster	labeled	1741	Confirmed
Lisa Gatens	labeled	3676	Confirmed
Lisa Gatens	labeled	2201, 2202	Possible
Lisa Gatens	labeled	1509	Predicted

AMAEB01030 SYLVILAGUS PALUSTRIS

David Sawyer labeled 1624

Confirmed

MARSH RABBIT**AMAEB01040 SYLVILAGUS FLORIDANUS**

David Webster labeled 1741

Confirmed

David Sawyer labeled 3039, 3040, 3163, 3164, 3165, 3166, 3167, 3168, 3289, 3290, 3291, 3292, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807,

Confirmed

David Webster labeled 1291

Absent

David Webster labeled 967, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2432, 2433, 2434, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3044, 3045, 3046, 3169, 3170, 3293, 3295, 3415, 3808, 3934, 3938, 3939, 4066, 4068, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606,

Predicted

AMAFB02230 TAMIAS STRIATUS

Mark Jones labeled 2432

Confirmed

David Sawyer labeled 3040, 3416, 3419, 3420, 3546, 3547, 3548, 3675, 3676, 3803,

Confirmed

EASTERN CHIPMUNK**AMAFB03010 MARMOTA MONAX**

David Sawyer labeled 3039, 3040, 3163, 3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3543, 3544, 3545, 3546, 3547, 3548, 3672, 3673, 3674, 3675, 3676, 3802, 3803, 3804, 3805, 3806, 3935, 3936, 4067

Confirmed

Perry Sumner labeled 1506, 1507, 1510, 1617, 1618, 1619, 1622, 1730, 1732, 1735, 1844, 1845, 1846, 1848, 1849, 1959, 1960, 1961, 1962, 1963, 1964, 2075, 2076, 2077, 2078, 2079, 2080, 2192, 2193, 2194, 2195, 2196, 2310, 2314, 2429, 2430, 2432, 2433, 2548, 2549, 2550, 2551, 2552, 2553, 2669, 2670, 2671, 2672, 2673, 2674, 2791, 2792, 2793, 2794, 2795, 2914, 2915, 2916, 2917, 2918, 3038, 3041, 3042, 3167, 3415, 3549, 3677, 3678, 3808, 3934, 3937, 3938, 3939, 4066, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745,

Predicted

WOODCHUCK**AMAFB07010 SCIURUS CAROLINENSIS**

David Sawyer labeled 3039, 3040, 3163, 3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3416, 3417, 3418, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3935, 4067

Confirmed

Mark Jones labeled 1618, 1730, 1731, 1732, 1733, 1844, 1846, 2195, 2313, 2433, 3415, 3543

Confirmed

EASTERN GRAY SQUIRREL**AMAFB07040 SCIURUS NIGER**

David Sawyer labeled 3544

Predicted

David Sawyer labeled 3416, 3543, 3672, 3673, 3802, 3803

Confirmed

EASTERN FOX SQUIRREL

<u>AMAFB08010</u>	<u>TAMIASCIURUS HUDSONICUS</u>		<u>RED SQUIRREL</u>	
Chris McGrath	labeled	3804, 3805, 3937, 4070		Confirmed
David Sawyer	labeled	2792, 3416, 3544, 3673, 3802, 3803, 3935, 4067		Confirmed
<u>AMAFB09010</u>	<u>GLAUCOMYS VOLANS</u>		<u>SOUTHERN FLYING SQUIRREL</u>	
Chris McGrath	labeled	3805, 3935, 3936, 3937, 4069, 4070, 4203, 4337		Confirmed
David Sawyer	labeled	3416, 3544, 3673, 3675, 3803		Confirmed
Lisa Gatens	labeled	1731, 2919		Possible
<u>AMAFB09020</u>	<u>GLAUCOMYS SABRINUS</u>		<u>NORTHERN FLYING SQUIRREL</u>	
Chris McGrath	labeled	3935		Confirmed
<u>AMAFE01010</u>	<u>CASTOR CANADENSIS</u>		<u>AMERICAN BEAVER</u>	
Perry Sumner	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2315, 2316, 2317, 2318, 2319, 2429, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3167, 3168, 3169, 3170, 3415, 3543, 3672, 3677, 3678, 3802, 3807, 3808, 3934, 3937, 3938, 3939, 4066, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3416, 3417, 3418, 3544, 3545, 3546, 3673, 3674, 3675, 3676, 3803, 3804, 3805, 3806, 3935, 3936, 4067		Predicted
David Sawyer	labeled	3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3416, 3417, 3418, 3544, 3545, 3546, 3673, 3674, 3675, 3676, 3803, 3804, 3805, 3806, 3935, 3936, 4067		Confirmed
Perry Sumner	labeled	3420, 3421, 3422, 3547, 3548		Absent
Perry Sumner	labeled	3294, 3295, 3419, 3549		Possible
<u>AMAFF02020</u>	<u>REITHRODONTOMYS HUMULIS</u>		<u>EASTERN HARVEST MOUSE</u>	
David Sawyer	labeled	4200		Confirmed
<u>AMAFF03040</u>	<u>PEROMYSCUS MANICULATUS</u>		<u>COMMON DEER MOUSE</u>	
Lisa Gatens	labeled	4071		Possible
Chris McGrath	labeled	3937, 4069, 4203		Confirmed
<u>AMAFF03070</u>	<u>PEROMYSCUS LEUCOPUS</u>		<u>WHITE-FOOTED MOUSE</u>	
Chris McGrath	labeled	1962, 2311, 2675, 2797, 2919, 3807, 3937, 4069		Confirmed
Lisa Gatens	labeled	4071		Possible
<u>AMAFF04010</u>	<u>OCHROTOMYS NUTTALLI</u>		<u>GOLDEN MOUSE</u>	
David Sawyer	labeled	3417		Confirmed
<u>AMAFF07010</u>	<u>SIGMODON HISPIDUS</u>		<u>HISPID COTTON RAT</u>	
David Sawyer	labeled	3544		Confirmed
David Sawyer	labeled	3417, 3545, 3546, 3674, 3675		Predicted

<u>AMAFF08010 NEOTOMA FLORIDANA</u>			<u>EASTERN WOODRAT</u>		
Chris McGrath	labeled	3291			Absent
Chris McGrath	labeled	3805, 3806, 3808, 4071, 4200, 4204, 4334, 4338, 4471			Confirmed
Chris McGrath	labeled	3164, 3165, 3290, 4607			Possible
<u>AMAFF08100 NEOTOMA MAGISTER</u>			<u>ALLEGHENY WOODRAT</u>		
Chris McGrath	labeled	3164, 3165, 3290			Possible
Chris McGrath	labeled	3418, 3419, 3546, 3547			Absent
Chris McGrath	labeled	3291			Excluded
Chris McGrath	labeled	3674, 3936, 3937			Confirmed
<u>AMAFF11010 MICROTUS PENNSYLVANICUS</u>			<u>MEADOW VOLE</u>		
David Sawyer	labeled	3417, 3544, 3674, 3675, 3935, 3936			Confirmed
David Sawyer	labeled	3545			Predicted
<u>AMAFF11090 MICROTUS CHROTERRHINUS</u>			<u>ROCK VOLE</u>		
David Webster	labeled	4202, 4336, 4470			Confirmed
<u>AMAFF11150 MICROTUS PINETORUM</u>			<u>WOODLAND VOLE</u>		
David Sawyer	labeled	3163, 3546, 3547, 3675			Confirmed
<u>AMAFF15010 ONDATRA ZIBETHICUS</u>			<u>MUSKRAT</u>		
David Sawyer	labeled	3165, 3293, 3294, 3295, 3416, 3417, 3419, 3544, 3545, 3546, 3547, 3548, 3673, 3674, 3675, 3676, 3677, 3803, 3805, 3806			Confirmed
Perry Sumner	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1506, 1507, 1509, 1510, 1512, 1513, 1514, 1515, 1617, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3042, 3043, 3044, 3045, 3046, 3167, 3168, 3169, 3170, 3415, 3420, 3421, 3422, 3549, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 3040, 3163, 3164, 3166, 3289, 3290, 3291, 3292, 3418, 3543, 3672, 3802, 3804			Predicted
David Sawyer	labeled	3040, 3163, 3164, 3166, 3289, 3290, 3291, 3292, 3418, 3543, 3672, 3802, 3804			Predicted
<u>AMAFF17010 SYNAPTOMYS COOPERI</u>			<u>SOUTHERN BOG LEMMING</u>		
David Webster	labeled	1511, 1732, 4204			Confirmed
David Webster	labeled	1286			Absent
<u>AMAFF21020 RATTUS NORVEGICUS</u>			<u>NORWAY RAT</u>		
David Sawyer	labeled	3544			Confirmed
<u>AMAFF22010 MUS MUSCULUS</u>			<u>HOUSE MOUSE</u>		
Chris McGrath	labeled	1962, 2919, 4069			Confirmed

AMAFK01010 MYOCASTOR COYPUS**NUTRIA**

John Groves	labeled	1395	Confirmed
John Stanton	labeled	1290	Confirmed
John Stanton	labeled	1181, 1182, 1289, 1291, 1399, 1400	Predicted
Perry Sumner	labeled	967, 1073, 1074, 1179, 1180, 1184, 1286, 1287, 1288, 1292, 1293, 1294, 1396, 1397, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1730, 1731, 1732, 1733, 1734, 1844, 1845,	Possible
Perry Sumner	labeled	1515, 1624, 1625, 1626, 1627, 1628, 1630, 1735, 1736, 1737, 1738, 1739, 1740, 1742, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1970, 1971, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2310, 2312	Predicted

AMAJA01010 CANIS LATRANS**COYOTE**

David Sawyer	labeled	3040, 3163, 3293, 3802	Predicted
David Sawyer	labeled	3164, 3165, 3166, 3289, 3290, 3291, 3292, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3677, 3803, 3804, 3805, 3806, 3935,	Confirmed
Perry Sumner	labeled	1513, 1623, 1736, 1846, 1963, 1965, 2076, 2078, 2200, 2431, 2553, 2674, 2793, 2919, 2920, 2922, 3168, 3808, 4068, 4334,	Confirmed
Perry Sumner	labeled	1184, 1286, 1287, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1511, 1512, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1962, 1964, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2201, 2202, 2310, 2313, 2314, 2315, 2432, 2433, 2434, 2435, 2436, 2437, 2550, 2551, 2552, 2554, 2555, 2556, 2557, 2670, 2672, 2673, 2675, 2676, 2677, 2791, 2792, 2794, 2795, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2921, 3038, 3039, 3041, 3042, 3043, 3045, 3046, 3167, 3169, 3170, 3295, 3415, 3422, 3543, 3678, 3807, 3934, 3938, 3939, 4066, 4199, 4200, 4204, 4336, 4337, 4338, 4470, 4473, 4606, 4609, 4069, 4202, 4203	Predicted
Chris McGrath	labeled	4069, 4202, 4203	Confirmed

AMAJA03010 VULPES VULPES**RED FOX**

David Sawyer	labeled	3163, 3291, 3292, 3294, 3295, 3416, 3417, 3420, 3544, 3546, 3547, 3548, 3675, 3676, 3677, 3678, 3803, 3804, 3805, 3806, 3807, 3936, 4067	Confirmed
Perry Sumner	labeled	1398, 1399, 1507, 1735, 1738, 1850, 1853, 1966, 1968, 2076, 2077, 2078, 2079, 2080, 2084, 2194, 2195, 2196, 2201, 2310, 2311, 2317, 2318, 2430, 2433, 2436, 2551, 2553, 2556, 2670, 2671, 2672, 2676, 2792, 2793, 2795, 2920, 2921, 3039, 3042, 3043, 3167, 3168, 4068, 4070, 4204, 4336, 4337, 4338, 4472	Confirmed

Perry Sumner	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1400, 1401, 1402, 1403, 1506, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1736, 1737, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1851, 1852, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1967, 1970, 1971, 2075, 2081, 2082, 2083, 2085, 2086, 2192, 2193, 2197, 2199, 2200, 2202, 2312, 2313, 2315, 2316, 2319, 2429, 2431, 2432, 2434, 2435, 2437, 2548, 2549, 2550, 2552, 2554, 2557, 2669, 2673, 2674, 2675, 2677, 2791, 2794, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2922, 3038, 3040, 3041, 3044, 3045, 3046, 3166, 3169, 3170, 3415, 3422, 3543, 3672, 3808, 3934, 3937, 3938, 3939, 4066, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4334, 4335, 4470, 4471, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
David Sawyer	labeled	3164, 3165, 3289, 3290, 3293, 3418, 3419, 3421, 3545, 3549, 3673, 3674, 3802, 3935	Predicted

AMAJA04010 UROCYON CINEREOARGENTEUS COMMON GRAY FOX

David Sawyer	labeled	3164, 3166, 3292, 3416, 3418, 3672, 3673, 3802	Predicted
Perry Sumner	labeled	1397, 1507, 1508, 1509, 1512, 1513, 1514, 1619, 1620, 1621, 1623, 1624, 1731, 1732, 1733, 1734, 1735, 1737, 1741, 1845, 1847, 1848, 1850, 1856, 1959, 1960, 1961, 1965, 1968, 1969, 2076, 2077, 2084, 2193, 2194, 2198, 2200, 2311, 2315, 2316, 2317, 2429, 2432, 2433, 2434, 2436, 2551, 2552, 2553, 2670, 2675, 2791, 2792, 2793, 2797, 2915, 2917, 2919, 3044, 3169, 3295, 3543, 3936, 4067, 4069, 4071, 4202, 4203, 4204, 4336,	Confirmed
David Sawyer	labeled	3163, 3165, 3289, 3290, 3291, 3293, 3294, 3417, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3549, 3674, 3675, 3676, 3677, 3678, 3803, 3804, 3805, 3806, 3807, 3935	Confirmed
Perry Sumner	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1510, 1511, 1515, 1617, 1618, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1736, 1738, 1739, 1844, 1846, 1849, 1851, 1852, 1853, 1854, 1855, 1964, 1970, 1971, 2075, 2080, 2085, 2086, 2199, 2201, 2202, 2310, 2318, 2319, 2430, 2431, 2435, 2437, 2548, 2549, 2550, 2554, 2556, 2557, 2669, 2671, 2672, 2673, 2674, 2676, 2677, 2794, 2795, 2796, 2798, 2799, 2914, 2916, 2918, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3045, 3046, 3167, 3168, 3170, 3415, 3422, 3808, 3934, 3937, 3939, 4066, 4068, 4070, 4199, 4200, 4201, 4334, 4335, 4338, 4470, 4471, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted

AMAJB01010 URSUS AMERICANUS BLACK BEAR

Mark Jones	labeled	1506, 1507, 1617, 1959, 1961, 2075, 2077	Predicted
Mark Jones	labeled	1960, 1971, 2076, 2078, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2201, 2202, 2314, 2319, 2434, 2435, 2436, 2437, 2548, 2549, 2557, 2669, 2791, 2792, 2914, 2915, 3038, 3039, 3163, 3290, 3543, 3678, 3808	Possible
Mark Jones	labeled	967, 1072, 1397, 1402, 1508, 1511, 1514, 1515, 1620, 1621, 1624, 1629, 1630, 1730, 1732, 1733, 1735, 1739, 1741, 1742, 1844, 1845, 1847, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1962, 1963, 1964, 1965, 1966, 1967, 1970, 2079, 2080, 2082, 2197, 2198, 2199, 2200, 2315, 2316, 2317, 2318, 3934, 3937, 3938, 3939, 4066, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Confirmed
David Sawyer	labeled	1073, 1180, 1181, 1183	Predicted
Mark Jones	labeled	1184, 1286, 1287, 1288, 1291, 1293, 1294, 1396, 1400, 1403, 1625, 1737, 1738	Absent

David Sawyer	labeled	1074, 1179, 1182, 3416, 3544, 3545, 3672, 3673, 3674, 3675, 3676, 3802, 3803, 3804, 3805, 3806, 3807, 3935, 4067	Confirmed
Mark Jones	labeled	1289, 1292, 1395, 1736	Excluded
David Sawyer	labeled	3165, 3289, 3291, 3292, 3294, 3415, 3417, 3418, 3419, 3420, 3421, 3546, 3547, 3548, 3549, 3677	Possible

AMAJE02010 PROCYON LOTOR

COMMON RACCOON

David Sawyer	labeled	3039, 3040, 3166, 3167, 3543	Predicted
Mark Jones	labeled	1618, 1619, 1620, 1730, 1731, 1732, 1733, 1844, 1846, 1847,	Confirmed
David Sawyer	labeled	3163, 3164, 3165, 3289, 3290, 3291, 3292, 3293, 3294, 3417, 3418, 3419, 3420, 3421, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3935, 3936, 4067	Confirmed
Perry Sumner	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1621, 1622, 1623, 1624, 1626, 1627, 1628, 1629, 1630, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1742, 1845, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2433, 2434, 2435, 2436, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3041, 3042, 3043, 3044, 3045, 3046, 3168, 3169, 3170, 3295, 3422, 3674, 3808, 3934, 3938, 3939, 4066, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609,	Predicted

AMAJF02030 MUSTELA FRENATA

LONG-TAILED WEASEL

David Webster	labeled	1182, 1183, 1184, 1291, 1294, 1630	Absent
David Webster	labeled	1179, 1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1730, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2317, 2319, 2429, 2430, 2431, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3937, 3938, 3939, 4066, 4068, 4070, 4071, 4199, 4200, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 3544	Predicted
David Sawyer	labeled	3544	Confirmed
Chris McGrath	labeled	4067, 4069, 4201	Confirmed
David Webster	labeled	967, 1072, 1073, 1074	Possible

AMAJF02050 MUSTELA VISON**MINK**

Perry Sumner	labeled	2077, 2671, 2920, 3938	Confirmed
David Sawyer	labeled	3163, 3165, 3289, 3290, 3293, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3544, 3546, 3547, 3548, 3549, 3673, 3674, 3675, 3676, 3677, 3802, 3804, 3805, 3806, 3935, 3936, 4067	Predicted
Chris McGrath	labeled	4608	Confirmed
Perry Sumner	labeled	967, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 2075, 2076, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2193, 2194, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3044, 3045, 3046, 3167, 3168, 3169, 3170, 3295, 3415, 3422, 3543, 3672, 3808, 3934, 3937, 3939, 4066, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 3164, 3166, 3291, 3292, 3545, 3803	Predicted
David Sawyer	labeled	3164, 3166, 3291, 3292, 3545, 3803	Confirmed
Mark Jones	labeled	2195, 2196, 2313	Confirmed

AMAJF05010 SPILOGALE PUTORIUS**EASTERN SPOTTED SKUNK**

Perry Sumner	labeled	3415, 3417, 3545, 3675, 3676, 3677, 3678, 3806, 3807, 3808, 3934, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609,	Predicted
Chris McGrath	labeled	3805	Confirmed
David Sawyer	labeled	3416, 3543, 3672, 3674, 3802, 3803, 3935	Predicted
David Sawyer	labeled	3544, 3673, 3804	Confirmed
Perry Sumner	labeled	4744	Confirmed

AMAJF06010 MEPHITIS MEPHITIS**STRIPED SKUNK**

Perry Sumner	labeled	1960, 2312, 2670, 2919, 3043, 4070	Confirmed
Perry Sumner	labeled	1962, 2079, 2080, 2081, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2315, 2316, 2317, 2318, 2319, 2434, 2435, 2436, 2437,	Possible
Perry Sumner	labeled	1184, 1292, 1293, 1294, 1401, 1402, 1403, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1618, 1619, 1622, 1623, 1624, 1625, 1626, 1627, 1730, 1731, 1737, 1738, 1739, 1740, 1844, 1845, 1853, 1959, 1961, 2075, 2076, 2077, 2078, 2192, 2193, 2194, 2195, 2310, 2311, 2313, 2314, 2429, 2430, 2431, 2432, 2433, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2669, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2920, 2921, 2922, 3038, 3039, 3041, 3042, 3044, 3045, 3046, 3167, 3168, 3169, 3170, 3295, 3415, 3422, 3543, 3808, 3938, 3939, 4066, 4068, 4069, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4607, 4608, 4609, 4743, 4744, 4745, 4882	Predicted
David Sawyer	labeled	3040, 3163, 3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3294, 3416, 3417, 3418, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3934, 3935, 3936, 3937,	Confirmed

AMAJF08010 LUTRA CANADENSIS**NORTHERN RIVER OTTER**

David Sawyer	labeled	3165, 3166, 3290, 3416, 3417, 3544, 3546, 3548, 3672, 3673, 3674, 3677, 3936	Predicted
David Sawyer	labeled	3040, 3294, 3419, 3420, 3421, 3547, 3549, 3675, 3676, 3678, 3804, 3805, 3806	Confirmed
Perry Sumner	labeled	1074, 1180, 1288, 1293, 1396, 1400, 1402, 1506, 1507, 1508, 1509, 1510, 1511, 1513, 1514, 1618, 1619, 1620, 1624, 1625, 1731, 1733, 1845, 1852, 1959, 1961, 1969, 2076, 2079, 2080, 2083, 2085, 2194, 2196, 2315, 2317, 2437, 2675, 2676, 2791, 2792, 2919, 3039, 3043, 3168, 3807, 4069, 4336, 4338, 4472,	Confirmed
Perry Sumner	labeled	967, 1073, 1179, 1181, 1182, 1183, 1184, 1286, 1287, 1289, 1291, 1292, 1294, 1395, 1397, 1398, 1399, 1401, 1403, 1512, 1515, 1617, 1621, 1622, 1623, 1627, 1628, 1629, 1630, 1730, 1734, 1735, 1736, 1737, 1738, 1741, 1742, 1844, 1846, 1847, 1849, 1850, 1851, 1853, 1854, 1855, 1856, 1960, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1970, 1971, 2075, 2077, 2078, 2081, 2082, 2084, 2086, 2192, 2193, 2195, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2316, 2318, 2319, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2548, 2549, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2669, 2670, 2672, 2673, 2674, 2677, 2793, 2794, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2920, 2921, 2922, 3038, 3041, 3042, 3044, 3045, 3046, 3163, 3164, 3167, 3169, 3170, 3289, 3291, 3292, 3293, 3295, 3418, 3422, 3545, 3808, 3937, 3938, 3939, 4066, 4068, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4470, 4473, 4608, 4609, 4743, 4744, 4745, 4882 3935, 4067, 4335, 4337, 4471	Predicted
Chris McGrath	labeled		Confirmed

AMAJH03020 LYNX RUFUS**BOBCAT**

David Sawyer	labeled	3164, 3165, 3166, 3289, 3290, 3291, 3292, 3293, 3294, 3418, 3419, 3420, 3421, 3546, 3549, 3672, 3675, 3676, 3677, 3802,	Predicted
Chris McGrath	labeled	4070, 4203	Confirmed
David Sawyer	labeled	3163, 3416, 3417, 3544, 3545, 3547, 3548, 3673, 3674, 3803, 3804, 3805, 3806, 3935, 4067	Confirmed
Perry Sumner	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1288, 1289, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1510, 1511, 1514, 1515, 1617, 1618, 1619, 1621, 1622, 1623, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1735, 1737, 1739, 1740, 1844, 1845, 1847, 1849, 1850, 1851, 1852, 1854, 1856, 1959, 1960, 1962, 1963, 1964, 1965, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2082, 2192, 2193, 2196, 2197, 2198, 2199, 2202, 2311, 2312, 2313, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2554, 2556, 2557, 2669, 2670, 2671, 2673, 2674, 2675, 2677, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2916, 2917, 2918, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3167, 3168, 3170, 3295, 3415, 3422, 3678, 3808, 3934, 4066, 4071, 4199, 4201, 4202, 4334, 4336, 4337, 4338, 4470, 4606, 4609, 4743, 4744, 4882	Predicted
Perry Sumner	labeled	1179, 1287, 1290, 1398, 1506, 1509, 1512, 1513, 1620, 1624, 1731, 1736, 1738, 1741, 1742, 1846, 1848, 1855, 1961, 1966, 1969, 1970, 2081, 2085, 2086, 2194, 2195, 2201, 2310, 2314, 2433, 2551, 2552, 2553, 2672, 2676, 2791, 2792, 2915, 3169, 3543, 3937, 3938, 3939, 4068, 4069, 4200, 4204, 4335, 4471,	Confirmed

AMALA01010 SUS SCROFA**FERAL PIG**

David Sawyer	labeled	3548, 3674, 3675, 3676, 3678, 3804, 3805, 3935	Confirmed
Susan Baird	labeled	1395	Confirmed

AMALC02020 ODOCOILEUS VIRGINIANUS**WHITE-TAILED DEER**

Chuck Peoples / David Sawyer	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1512, 1513, 1514, 1515, 1617, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1968, 1969, 1970, 1971, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2433, 2434, 2435, 2436, 2437, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3934, 3935, 3936, 3937, 3938, 3939, 4066, 4067, 4068, 4069, 4070, 4071, 4199, 4200, 4201, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 1619	Confirmed
John Stanton	labeled	1619	Confirmed

AMATA01010 EQUUS CABALLUS**FERAL HORSE**

John Groves	labeled	1286, 1395	Confirmed
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ARAAA01010 CARETTA CARETTA**LOGGERHEAD**

Internal Review	labeled	1291	Possible
Palmer & Braswell	labeled	1073, 1286, 1287, 1395	Predicted

ARAAA02010 CHELONIA MYDAS**GREEN TURTLE**

Internal Review	labeled	1291	Possible
John Fauth	labeled	1286, 1395	Possible

ARAAA04010 LEPIDOCHELYS KEMPII**ATLANTIC RIDLEY**

Internal Review	labeled	1291	Possible
John Fauth	labeled	1286, 1395	Possible

ARAAB01010 CHELYDRA SERPENTINA**SNAPPING TURTLE**

Palmer & Braswell	labeled	967, 1073, 1181, 1182, 1289, 1292, 1401, 1402, 1514, 1617, 1621, 1622, 1624, 1730, 1733, 1737, 1738, 1740, 1741, 1844, 1847, 1849, 1850, 1852, 1854, 1959, 1961, 1962, 1964, 1965, 1966, 1967, 1968, 1969, 2075, 2076, 2077, 2078, 2079, 2081, 2083, 2084, 2194, 2195, 2196, 2197, 2198, 2199, 2201, 2310, 2311, 2312, 2313, 2314, 2315, 2318, 2430, 2431, 2432, 2435, 2436, 2548, 2552, 2553, 2554, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2792, 2796, 2797, 2914, 2918, 2920, 3042, 3044, 3164, 3165, 3166, 3167, 3168, 3290, 3291, 3293, 3415, 3418, 3419, 3420, 3422, 3545, 3546, 3549, 3672, 3674, 3802, 3803, 3804, 3936, 3937, 4068, 4069, 4070, 4199, 4200, 4201, 4203,	Predicted
John Fauth	labeled	2555	Confirmed

Jeff Beane	labeled	1072, 1074, 1180, 1183, 1184, 1286, 1290, 1293, 1294, 1399, 1403, 1512, 1515, 1618, 1623, 1625, 1627, 1628, 1629, 1630, 1731, 1732, 1734, 1736, 1739, 1742, 1845, 1846, 1848, 1851, 1853, 1855, 1856, 1960, 1963, 1970, 1971, 2080, 2082, 2085, 2086, 2192, 2193, 2200, 2202, 2316, 2319, 2429, 2433, 2437, 2549, 2550, 2556, 2557, 2676, 2677, 2791, 2793, 2798, 2799, 2915, 2916, 2919, 2921, 2922, 3038, 3039, 3041, 3043, 3045, 3046, 3163, 3169, 3170, 3289, 3292, 3294, 3295, 3416, 3417, 3421, 3543, 3547, 3548, 3673, 3675, 3676, 3677, 3678, 3805, 3806, 3808, 3934, 3935, 3938, 3939, 4066, 4067, 4071, 4202,	Predicted
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ARAAC01010 DERMOCHELYS CORIACEA

LEATHERBACK

Internal Review	labeled	1291	Possible
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ARAAD01010 CHRYSOMYS PICTA

PAINTED TURTLE

Palmer & Braswell	labeled	1286, 1287, 1289, 1398, 1403, 1506, 1508, 1512, 1617, 1621, 1623, 1730, 1734, 1735, 1848, 1849, 1959, 1960, 1961, 1962, 1965, 2078, 2079, 2194, 2195, 2310, 2315, 2429, 2431, 2432, 2548, 2549, 2550, 2551, 2554, 2669, 2673, 2674, 2792, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2922, 3039, 3042, 3044, 3167, 3168, 3170, 3293, 3420, 3549, 3674, 3802, 3803, 3936, 3937, 4068, 4069, 4199, 4203, 4336, 4337, 4470, 4471	Predicted
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John Groves	labeled	2795	Confirmed
Jeff Beane	labeled	1630, 2086	Absent

ARAAD02010 CLEMMYS GUTTATA

SPOTTED TURTLE

Jeff Beane	labeled	1072, 1179, 1286, 1287, 1395	Possible
Jeff Beane	labeled	967, 1073, 1180, 1182, 1183, 1184, 1289, 1294, 1396, 1400, 1509, 1510, 1514, 1515, 1619, 1620, 1621, 1623, 1625, 1627, 1628, 1629, 1732, 1742, 1844, 1845, 1846, 1847, 1852, 1854, 1856, 1960, 1963, 1967, 1969, 1970, 2075, 2079, 2085, 2086, 2194, 2196, 2198, 2199, 2201, 2310, 2311, 2316, 2317, 2319, 2435, 2557, 2673, 2676, 2677, 2795, 2796	Predicted

John Fauth	labeled	2555	Confirmed
Palmer & Braswell	labeled	1181, 1288, 1292, 1293, 1398, 1399, 1401, 1402, 1403, 1506, 1507, 1508, 1512, 1513, 1617, 1618, 1624, 1630, 1730, 1731, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1848, 1849, 1850, 1851, 1855, 1959, 1962, 1964, 1965, 1966, 1971, 2076, 2077, 2078, 2080, 2081, 2082, 2083, 2084, 2192, 2193, 2195, 2200, 2202, 2312, 2313, 2314, 2315, 2431, 2432, 2433, 2434, 2550, 2552, 2553, 2554, 2674, 2675, 2797	Predicted

Jeff Beane	labeled	3292	Absent
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ARAAD02040 CLEMMYS MUHLENBERGII

BOG TURTLE

Chris McGrath	labeled	3417, 3421, 3803, 3937	Confirmed
Jeff Beane	labeled	3039	Possible
Jeff Beane	labeled	3293	Predicted
Palmer & Braswell	labeled	3163, 3291, 3292, 3295, 3678, 3802	Predicted

ARAAD03010 DEIROCHELYS RETICULARIA

CHICKEN TURTLE

John Fauth	labeled	2555	Confirmed
Jeff Beane	labeled	1623, 1964, 2081, 2315	Possible
Palmer & Braswell	labeled	1402, 1513, 1738, 1739, 1853	Predicted
Jeff Beane	labeled	1179, 1968	Confirmed
Jeff Beane	labeled	1512, 1624, 1965	Predicted

<u>ARAAD06010 MALACLEMYS TERRAPIN</u>			<u>DIAMONDBACK TERRAPIN</u>	
Jeff Beane	labeled	1179		Confirmed
Jeff Beane	labeled	1286, 1288, 1395, 1396, 1397, 1398, 1506, 1507, 1508, 1509, 1619, 1620		Possible
Jeff Beane	labeled	1289, 1630, 1741		Predicted
Palmer & Braswell	labeled	967, 1073, 1074, 1181, 1182, 1293, 1510, 1740		Predicted
Internal Review	labeled	1291		Possible
Internal Review	labeled	1851		Excluded
<u>ARAAD07020 PSEUDEMYMYS CONCINNA</u>			<u>RIVER COOTER</u>	
Jeff Beane	labeled	2921, 3165		Confirmed
Jeff Beane	labeled	2917, 3041, 3042, 3166, 3167, 3290, 3291, 3292, 3293, 3418, 3419, 3420, 3547, 3548, 3676, 3677, 3806		Possible
Jeff Beane	labeled	3807		Predicted
Palmer & Braswell	labeled	1289, 1510, 1512, 1617, 1964, 2077, 2078, 2081, 2086, 2193, 2194, 2196, 2197, 2311, 2312, 2315, 2319, 2430, 2431, 2432, 2548, 2669, 2674, 2792, 2795, 2918, 3043, 3164, 3168		Predicted
<u>ARAAD07030 PSEUDEMYMYS FLORIDANA</u>			<u>FLORIDA COOTER</u>	
Jeff Beane	labeled	2921, 2922, 3044, 3045, 3046, 3170		Absent
Palmer & Braswell	labeled	1397, 1511, 1512, 1513, 1622, 1624, 1737, 1739, 1850, 1851, 2316, 2433		Predicted
Jeff Beane	labeled	1730, 2079		Possible
Jeff Beane	labeled	1618, 1731, 1742, 2080		Predicted
<u>ARAAD07050 PSEUDEMYMYS RUBRIVENTRIS</u>			<u>REDBELLY TURTLE</u>	
Jeff Beane	labeled	1294		Absent
Palmer & Braswell	labeled	1286, 1289, 1395, 1399, 1507, 1618		Predicted
John Groves	labeled	1290, 1400, 1509		Confirmed
Jeff Beane	labeled	1626		Excluded
Jeff Beane	labeled	1179		Confirmed
Jeff Beane	labeled	1180, 1287, 1396, 1397, 1508		Predicted
<u>ARAAD08010 TERRAPENE CAROLINA</u>			<u>EASTERN BOX TURTLE</u>	
JohnAnn Shearer	labeled	1290		Confirmed
John Groves	labeled	1286, 2673, 2674, 2794, 2795, 2917, 2918, 2919, 4607		Confirmed
Palmer & Braswell	labeled	1289, 1292, 1395, 1397, 1398, 1401, 1402, 1403, 1506, 1509, 1512, 1617, 1618, 1619, 1620, 1621, 1625, 1626, 1730, 1731, 1732, 1737, 1738, 1739, 1740, 1741, 1844, 1847, 1848, 1849, 1850, 1853, 1854, 1855, 1959, 1960, 1962, 1966, 1967, 1968, 2075, 2078, 2079, 2082, 2083, 2192, 2193, 2194, 2196, 2197, 2198, 2199, 2312, 2317, 2318, 2319, 2429, 2430, 2431, 2435, 2550, 2551, 2552, 2553, 2669, 2671, 2792, 2920, 3042, 3043, 3044, 3166, 3167, 3168, 3416, 3417, 3418, 3419, 3543, 3546, 3547, 3549, 3672, 3673, 3674, 3675, 3676, 3802, 3803, 3804, 3805, 3806, 3807, 3934, 3935, 3936, 3937, 4067, 4068, 4069,		Predicted

Jeff Beane	labeled	1181, 1182, 1183, 1184, 1287, 1293, 1294, 1396, 1399, 1507, 1510, 1513, 1515, 1622, 1627, 1628, 1629, 1630, 1733, 1734, 1736, 1742, 1845, 1846, 1851, 1856, 1961, 1963, 1964, 1965, 1969, 1970, 1971, 2076, 2080, 2081, 2084, 2085, 2086, 2195, 2200, 2201, 2202, 2310, 2313, 2432, 2434, 2436, 2437, 2548, 2549, 2554, 2557, 2670, 2672, 2791, 2793, 2799, 2914, 2921, 2922, 3038, 3041, 3045, 3046, 3163, 3169, 3170, 3291, 3292, 3293, 3294, 3295, 3415, 3420, 3422, 3544, 3548, 3677, 3678, 3808, 3938, 3939, 4066, 4071, 4201, 4202, 4204, 4334, 4335,	Predicted
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ARAAD09010 TRACHEMYS SCRIPTA

YELLOWBELLY SLIDER

Palmer & Braswell	labeled	967, 1072, 1073, 1184, 1286, 1395, 1401, 1402, 1403, 1506, 1508, 1512, 1513, 1617, 1618, 1619, 1730, 1734, 1735, 1737, 1738, 1739, 1740, 1847, 1849, 1850, 1851, 1853, 1854, 1855, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1971, 2078, 2079, 2081, 2082, 2084, 2199, 2200, 2311, 2315, 2429, 2432, 2433, 2550, 2670, 2792, 2793, 2918, 2919, 2920, 3042, 3043, 3044,	Predicted
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Jeff Beane	labeled	2669, 2791, 2914, 2915, 3038, 3039, 3040, 3041, 3163, 3164, 3165, 3166, 3291, 3295, 3418, 3419, 3420, 3421, 3422	Possible
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Jeff Beane	labeled	1180, 1183, 1287, 1292, 1293, 1294, 1396, 1397, 1507, 1509, 1514, 1515, 1620, 1621, 1625, 1627, 1628, 1629, 1630, 1731, 1732, 1736, 1741, 1844, 1845, 1846, 1848, 1852, 1856, 1959, 1961, 1962, 1970, 2075, 2080, 2083, 2086, 2192, 2193, 2194, 2195, 2201, 2202, 2310, 2312, 2316, 2318, 2319, 2430, 2434, 2437, 2548, 2549, 2551, 2552, 2554, 2557, 2671, 2672, 2673, 2674, 2677, 2794, 2796, 2917, 2921, 2922, 3045, 3046, 3169,	Predicted
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John Groves	labeled	2085	Confirmed
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JohnAnn Shearer	labeled	1074, 1181, 1182, 1289, 1290, 1399, 1400, 1510	Confirmed
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ARAAE01010 KINOSTERNON BAURII

STRIPED MUD TURTLE

Jeff Beane	labeled	1730	Possible
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Jeff Beane	labeled	1513, 1731, 2313	Predicted
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Palmer & Braswell	labeled	1286, 1506, 1512, 1742, 1844, 1849, 1850, 1852, 1965, 2083, 2084, 2193, 2312	Predicted
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ARAAE01050 KINOSTERNON SUBRUBRUM

EASTERN MUD TURTLE

Jeff Beane	labeled	1183, 1184, 1293, 1294, 1396, 1400, 1403, 1510, 1512, 1515, 1618, 1620, 1621, 1622, 1627, 1628, 1629, 1630, 1730, 1733, 1734, 1736, 1737, 1739, 1844, 1846, 1847, 1849, 1850, 1851, 1852, 1856, 1960, 1962, 1965, 1968, 1970, 2075, 2078, 2079, 2081, 2085, 2086, 2192, 2193, 2196, 2198, 2199, 2201, 2202, 2311, 2315, 2316, 2319, 2430, 2432, 2434, 2437, 2549, 2552, 2554, 2556, 2557, 2669, 2672, 2675, 2677, 2791, 2792, 2793, 2795, 2798, 2799, 2914, 2916, 2921, 3040, 3045, 3046, 3163, 3164, 3165, 3169, 3291, 3292, 3294, 3295, 3415, 3421, 3422,	Predicted
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Jeff Beane	labeled	3417, 3545	Confirmed
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John Groves	labeled	1073, 1074, 1181, 1182, 1290	Confirmed
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Palmer & Braswell	labeled	967, 1072, 1180, 1286, 1287, 1288, 1289, 1395, 1397, 1398, 1399, 1401, 1402, 1507, 1508, 1509, 1617, 1619, 1623, 1624, 1625, 1626, 1731, 1732, 1738, 1845, 1848, 1855, 1959, 1963, 1964, 1966, 1967, 1971, 2076, 2077, 2083, 2084, 2194, 2195, 2310, 2312, 2313, 2314, 2318, 2429, 2431, 2548, 2550, 2551, 2553, 2670, 2671, 2673, 2674, 2794, 2797, 2915, 2917, 2918, 2919, 2920, 2922, 3038, 3039, 3041, 3042, 3043, 3044, 3167, 3168, 3170, 3289, 3290, 3293, 3419, 3420, 3546, 3675, 3804,	Predicted
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ARAAE02030 STERNOTHERUS MINOR

LOGGERHEAD MUSK TURTLE

Jeff Beane	labeled	4882	Confirmed
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ARAAE02040 STERNOTHERUS ODORATUS**COMMON MUSK TURTLE**

Palmer & Braswell	labeled	1287, 1401, 1402, 1403, 1506, 1507, 1508, 1512, 1513, 1617, 1618, 1621, 1623, 1624, 1625, 1730, 1734, 1738, 1739, 1740, 1741, 1844, 1848, 1850, 1851, 1852, 1853, 1855, 1963, 1965, 1969, 2078, 2079, 2082, 2193, 2194, 2195, 2199, 2314, 2315, 2318, 2319, 2433, 2434, 2436, 2548, 2552, 2670, 2671, 2673, 2674, 2675, 2676, 2792, 2794, 2915, 2918, 2920, 3043, 3167, 3168, 3549, 3806, 3807, 3936, 4068, 4199, 4203, 4204, 4335,	Predicted
Jeff Beane	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1398, 1399, 1400, 1509, 1510, 1511, 1514, 1515, 1619, 1622, 1626, 1627, 1628, 1629, 1630, 1731, 1732, 1735, 1736, 1737, 1742, 1845, 1846, 1849, 1854, 1856, 1959, 1960, 1964, 1966, 1970, 1971, 2075, 2076, 2080, 2081, 2083, 2086, 2192, 2196, 2198, 2200, 2202, 2310, 2311, 2316, 2429, 2435, 2437, 2549, 2553, 2554, 2556, 2557, 2669, 2672, 2677, 2791, 2793, 2795, 2796, 2798, 2799, 2914, 2916, 2917, 2919, 2921, 2922, 3672, 4608	Predicted
Jeff Beane	labeled	4744	Possible

ARAAG01030 APALONE SPINIFERA**SPINY SOFTSHELL**

Jeff Beane	labeled	2313	Absent
Palmer & Braswell	labeled	3293, 3677	Predicted
Jeff Beane	labeled	1970, 2437, 2795, 2799, 3044, 3168, 3294, 3419, 3678, 3937,	Predicted
Jeff Beane	labeled	2677	Confirmed
Chris McGrath	labeled	3935, 4067	Confirmed
Jeff Beane	labeled	1969, 2314, 2436, 2676, 2794, 2798, 3043, 3167, 3292, 3418, 3936, 4070, 4201	Possible

ARABA01010 ALLIGATOR MISSISSIPPIENSIS**AMERICAN ALLIGATOR**

Jeff Beane	labeled	1402, 1969	Confirmed
John Fauth	labeled	2555, 2676	Possible
Palmer & Braswell	labeled	1179, 1180, 1181, 1182, 1287, 1288, 1396, 1397, 1398, 1399, 1400, 1401, 1510, 1511, 1512, 1621, 1622, 1734, 1737, 1738, 1849, 1850, 1851, 1852, 1965, 1966, 1968, 2082, 2083, 2084, 2199, 2315, 2316, 2436, 2437	Predicted

ARACB02010 OPHISAURUS ATTENUATUS**SLENDER GLASS LIZARD**

Jeff Beane	labeled	1731, 2552	Confirmed
Palmer & Braswell	labeled	1618, 1730, 1734, 1855, 1961, 2078, 2084, 2195, 2196, 2202, 2312, 2313, 2314, 2430, 2431, 2432, 2550, 2551	Predicted
Jeff Beane	labeled	1735, 1742, 1850, 1856, 2193, 2310, 2919, 3293, 4608	Predicted
Jeff Beane	labeled	1732, 1741, 1849, 1854, 2082, 2549, 2918, 3292, 4607	Possible

ARACB02030 OPHISAURUS VENTRALIS**EASTERN GLASS LIZARD**

Palmer & Braswell	labeled	967, 1072, 1073, 1181, 1182, 1289, 1292, 1293, 1398, 1399, 1401, 1402, 1509, 1512, 1620, 1621, 1622, 1623, 1733, 1734, 1735, 1738, 1847, 1849, 1851, 1852, 1964, 1966, 1970, 2085, 2198, 2199, 2315, 2316, 2434, 2435, 2436	Predicted
Jeff Beane	labeled	2675	Confirmed
Jeff Beane	labeled	2795	Possible
Jeff Beane	labeled	1074, 1180, 1183, 1184, 1287, 1288, 1290, 1294, 1400, 1403, 1510, 1513, 1515, 1624, 1625, 1627, 1628, 1629, 1630, 1736, 1737, 1739, 1742, 1848, 1850, 1853, 1856, 1965, 1967, 1971, 2077, 2078, 2080, 2081, 2082, 2086, 2197, 2200, 2201, 2202, 2317, 2319, 2437, 2557, 2677	Predicted
John Fauth	labeled	2556	Confirmed

Jeff Beane	labeled	2076, 2794	Absent
John Fauth	labeled	1397, 1962, 1963, 2079, 2195, 2196, 2313, 2314	Predicted
<u>ARACB02040</u>	<u>OPHISAURUS MIMICUS</u>		<u>MIMIC GLASS LIZARD</u>
Palmer & Braswell	labeled	1625, 1739, 1967	Predicted
Jeff Beane	labeled	1513, 1852, 1853	Possible
Jeff Beane	labeled	1512, 1966, 2081, 2082, 2198	Absent
Jeff Beane	labeled	1740, 1854, 1968, 1969, 2083	Predicted
<u>ARACF01010</u>	<u>ANOLIS CAROLINENSIS</u>		<u>GREEN ANOLE</u>
Palmer & Braswell	labeled	1399, 1401, 1402, 1508, 1509, 1512, 1513, 1621, 1625, 1733, 1734, 1737, 1739, 1740, 1741, 1847, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1964, 1965, 1967, 1968, 1970, 2079, 2081, 2082, 2084, 2198, 2199, 2200, 2313, 2314, 2315, 2316, 2431, 2432, 2435, 2436, 2674, 2794, 2795, 2797, 2916, 2919, 3042, 3043, 3044, 3167, 3168, 3293, 3294, 3420, 3806, 3807, 3936,	Predicted
Jeff Beane	labeled	3674, 4070, 4202, 4203, 4609	Absent
John Groves	labeled	2085	Confirmed
Jeff Beane	labeled	1287, 1293, 1294, 1397, 1400, 1403, 1510, 1514, 1515, 1622, 1626, 1628, 1629, 1630, 1735, 1738, 1742, 1856, 1966, 1969, 1971, 2080, 2083, 2086, 2196, 2197, 2201, 2202, 2312, 2317, 2318, 2319, 2433, 2437, 2553, 2554, 2556, 2557, 2675, 2677, 2796, 2798, 2799, 2917, 2920, 2921, 2922, 3045, 3046, 3169, 3170, 3295, 3421, 3422, 3675, 3808, 4071, 4204	Predicted
John Fauth	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1288, 1289, 1290, 1395, 1396, 1506, 1507, 1617, 1618, 1619, 1620, 1730, 1731, 1732, 1844, 1845, 1846, 1848, 1959, 1960, 1961, 1962, 1963, 2075, 2076, 2077, 2078, 2192, 2193, 2194,	Predicted
<u>ARACF14130</u>	<u>SCELOPORUS UNDULATUS</u>		<u>EASTERN FENCE LIZARD</u>
John Fauth	labeled	967, 1072, 1073, 1074, 1179, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1288, 1289, 1290, 1292, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1506, 1509, 1510, 1511, 1512, 1629, 1630, 1742, 1855, 1856, 1970, 1971, 2085, 2086,	Predicted
Jeff Beane	labeled	2555	Confirmed
John Groves	labeled	2795	Confirmed
Palmer & Braswell	labeled	1617, 1618, 1619, 1621, 1622, 1730, 1731, 1732, 1734, 1735, 1737, 1738, 1739, 1740, 1844, 1847, 1849, 1850, 1851, 1852, 1853, 1961, 1964, 1965, 2079, 2081, 2082, 2083, 2194, 2195, 2196, 2198, 2199, 2200, 2310, 2312, 2314, 2315, 2318, 2319, 2429, 2432, 2433, 2434, 2435, 2436, 2548, 2550, 2551, 2552, 2553, 2554, 2669, 2670, 2673, 2676, 2792, 2794, 2797, 2915, 2917, 2918, 2919, 2920, 3039, 3042, 3163, 3164, 3166, 3167, 3168, 3170, 3289, 3293, 3294, 3415, 3417, 3419, 3420, 3422, 3543, 3544, 3672, 3673, 3674, 3675, 3676, 3802, 3803, 3804, 3806, 3807, 3934, 3935, 3938, 4066, 4068, 4069, 4070, 4200, 4201, 4202, 4203, 4334, 4335, 4336, 4338, 4470, 4471, 4473,	Predicted
Jeff Beane	labeled	1507, 1508, 1513, 1514, 1515, 1620, 1623, 1625, 1627, 1628, 1733, 1736, 1741, 1845, 1846, 1848, 1854, 1959, 1960, 1962, 1963, 1966, 1969, 2075, 2076, 2077, 2080, 2084, 2192, 2197, 2201, 2311, 2313, 2316, 2430, 2437, 2549, 2557, 2671, 2672, 2674, 2677, 2791, 2793, 2796, 2798, 2799, 2914, 2916, 2921, 2922, 3038, 3040, 3041, 3043, 3045, 3046, 3165, 3169, 3290, 3291, 3292, 3295, 3416, 3418, 3421, 3545, 3546, 3547, 3548, 3549, 3677, 3678, 3805, 3808, 3936, 3939, 4067, 4071, 4199,	Predicted
<u>ARACH01010</u>	<u>EUMECES ANTHRACINUS</u>		<u>COAL SKINK</u>
Palmer & Braswell	labeled	3417, 3544, 3804, 3937, 3938, 4069, 4070, 4071, 4203, 4204, 4336, 4337, 4338, 4471, 4472, 4607, 4608	Predicted

Jeff Beane	labeled	4473	Predicted
Jeff Beane	labeled	3672, 3673, 3802	Possible

ARACH01050 EUMECES FASCIATUS

FIVE-LINED SKINK

John Groves	labeled	1400, 2084, 2085, 2318, 2319, 2437, 2795	Confirmed
Jeff Beane	labeled	1183, 1184, 1292, 1293, 1294, 1399, 1401, 1507, 1509, 1513, 1514, 1515, 1620, 1621, 1622, 1624, 1627, 1628, 1629, 1630, 1733, 1736, 1738, 1741, 1742, 1846, 1847, 1850, 1852, 1855, 1959, 1960, 1962, 1964, 1966, 1970, 1971, 2075, 2076, 2078, 2080, 2082, 2083, 2192, 2197, 2199, 2200, 2202, 2310, 2313, 2429, 2548, 2549, 2556, 2557, 2669, 2670, 2671, 2673, 2674, 2675, 2677, 2793, 2794, 2796, 2798, 2799, 2914, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3163, 3164, 3165, 3166, 3167, 3169, 3170, 3289, 3290, 3291, 3292, 3295, 3416, 3419, 3420, 3421, 3422, 3546, 3547, 3548, 3549, 3672, 3675, 3677, 3678, 3807, 3934, 3938, 3939, 4066, 4067,	Predicted

Jeff Beane	labeled	1073, 1074, 1181, 1182, 1290	Possible
Palmer & Braswell	labeled	1397, 1398, 1402, 1403, 1506, 1510, 1511, 1512, 1617, 1618, 1619, 1623, 1625, 1626, 1730, 1731, 1732, 1734, 1735, 1739, 1740, 1844, 1845, 1848, 1849, 1851, 1853, 1854, 1856, 1963, 1965, 1967, 1968, 1969, 2079, 2081, 2086, 2193, 2194, 2195, 2196, 2198, 2201, 2312, 2315, 2316, 2317, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2551, 2552, 2553, 2554, 2555, 2791, 2792, 2797, 2915, 2916, 2917, 2918, 2919, 3046, 3168, 3293, 3294, 3415, 3418, 3543, 3544, 3545, 3673, 3674, 3802, 3803, 3804, 3805, 3806, 3935, 3936, 3937, 4068, 4069, 4070, 4201, 4202, 4203, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473,	Predicted

ARACH01070 EUMECES INEXPECTATUS

SOUTHEASTERN FIVE-LINED SKINK

Palmer & Braswell	labeled	1073, 1184, 1286, 1287, 1289, 1294, 1395, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1621, 1622, 1623, 1624, 1625, 1626, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1844, 1845, 1847, 1849, 1851, 1852, 1853, 1854, 1855, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1968, 1969, 1970, 2079, 2080, 2082, 2193, 2196, 2197, 2199, 2200, 2312, 2314, 2315, 2316, 2317, 2319, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2551, 2552, 2553, 2554, 2555, 2669, 2674, 2675, 2795, 2797, 2917, 2918, 2919, 2920, 2921, 3044, 3168, 3293,	Predicted
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Jeff Beane	labeled	3163, 3417, 3674, 4203, 4606, 4609	Possible
Jeff Beane	labeled	967, 1072, 1074, 1180, 1181, 1182, 1183, 1288, 1290, 1293, 1396, 1510, 1512, 1515, 1617, 1619, 1627, 1628, 1629, 1630, 1738, 1740, 1742, 1846, 1848, 1850, 1856, 1966, 1971, 2076, 2078, 2081, 2083, 2085, 2086, 2192, 2194, 2195, 2198, 2201, 2202, 2310, 2313, 2318, 2429, 2437, 2548, 2549, 2556, 2557, 2670, 2671, 2672, 2673, 2676, 2677, 2798, 2799, 3164, 3418,	Predicted

John Fauth	labeled	2550	Confirmed
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ARACH01080 EUMECES LATICEPS

BROADHEAD SKINK

John Groves	labeled	2085	Confirmed
John Fauth	labeled	2550, 2555	Confirmed

Palmer & Braswell	labeled	1289, 1292, 1397, 1398, 1399, 1400, 1401, 1403, 1506, 1507, 1508, 1509, 1617, 1618, 1619, 1622, 1627, 1730, 1732, 1733, 1734, 1735, 1736, 1738, 1849, 1850, 1851, 1852, 1853, 1965, 1966, 1969, 2077, 2078, 2079, 2081, 2084, 2192, 2196, 2198, 2199, 2200, 2312, 2315, 2318, 2319, 2429, 2430, 2431, 2434, 2435, 2436, 2551, 2552, 2554, 2674, 2675, 2676, 2916, 2921, 3163, 3416, 3545, 3675, 3676, 3807, 3808, 4071, 4202, 4606,	Predicted
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Jeff Beane	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1286, 1287, 1294, 1395, 3415, 3543, 3544, 3672, 3673, 3674, 3802, 3803, 3804, 3934, 3935, 4066, 4067, 4199, 4200, 4201, 4334, 4335	Possible
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Jeff Beane	labeled	1293	Confirmed
Jeff Beane	labeled	1180, 1181, 1288, 1290, 1396, 1402, 1510, 1514, 1515, 1620, 1621, 1623, 1628, 1629, 1630, 1731, 1737, 1739, 1740, 1741, 1844, 1845, 1846, 1847, 1848, 1854, 1959, 1960, 1961, 1962, 1963, 1967, 1971, 2076, 2080, 2082, 2086, 2193, 2194, 2195, 2197, 2201, 2202, 2310, 2311, 2313, 2314, 2316, 2432, 2437, 2548, 2549, 2553, 2557, 2669, 2670, 2671, 2672, 2673, 2677, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2914, 2915, 2917, 2918, 2919, 2920, 2922, 3038, 3039, 3040, 3041, 3042, 3044, 3046, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3417, 3418, 3419, 3420, 3421, 3422, 3546, 3547, 3548, 3549, 3677, 3678, 3805, 3806, 3936, 3937, 3938, 3939, 4068, 4069, 4070, 4203, 4204, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4607, 4609, 4744,	Predicted

ARACH03010 SCINCELLA LATERALIS GROUND SKINK

Jeff Beane	labeled	3674	Absent
John Groves	labeled	2795	Confirmed
Jeff Beane	labeled	967, 1072, 1181, 1182, 1183, 1184, 1286, 1289, 1294, 1395, 1397, 1515, 1620, 1628, 1629, 1630, 1730, 1734, 1737, 1844, 1845, 1847, 1959, 1960, 1961, 1963, 1964, 1965, 1971, 2075, 2076, 2077, 2079, 2081, 2082, 2084, 2086, 2192, 2193, 2194, 2195, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2318, 2429, 2434, 2548, 2549, 2553, 2557, 2669, 2671, 2672, 2673, 2674, 2791, 2792, 2793, 2794, 2797, 2798, 2799, 2914, 2915, 2916, 2917, 2918, 2920, 2922, 3038, 3039, 3041, 3042, 3043, 3046, 3163, 3165, 3166, 3170, 3289, 3292, 3293, 3295, 3419, 3422, 3547, 3548, 3549, 3676, 3677, 3678, 4070, 4338, 4473, 4609,	Predicted
Jeff Beane	labeled	3290, 3291, 3417, 3418, 3546	Possible
Jeff Beane	labeled	1968, 2432, 2436, 2555	Confirmed
Palmer & Braswell	labeled	1074, 1180, 1287, 1288, 1290, 1292, 1293, 1396, 1399, 1400, 1401, 1402, 1403, 1506, 1508, 1509, 1510, 1512, 1513, 1514, 1618, 1621, 1622, 1623, 1624, 1625, 1627, 1731, 1732, 1733, 1735, 1736, 1738, 1739, 1740, 1741, 1742, 1846, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1966, 1967, 1969, 1970, 2078, 2080, 2083, 2085, 2196, 2197, 2198, 2313, 2314, 2315, 2316, 2317, 2319, 2430, 2431, 2433, 2437, 2551, 2552, 2554, 2556, 2670, 2675, 2676, 2677, 2796, 2919, 2921, 3040, 3044, 3045, 3164, 3167, 3168, 3169, 3294, 3416, 3420, 3421, 3675, 3806, 3807, 3808, 3937, 3938, 3939, 4069, 4071, 4203,	Predicted

ARACHJ02110 CNEMIDOPHORUS SEXLINEATUS SIX-LINED RACERUNNER

Palmer & Braswell	labeled	967, 1074, 1182, 1183, 1286, 1287, 1293, 1294, 1402, 1403, 1512, 1626, 1629, 1630, 1735, 1736, 1738, 1739, 1740, 1741, 1848, 1849, 1850, 1852, 1853, 1854, 1855, 1856, 1962, 1963, 1964, 1965, 1967, 1969, 2075, 2082, 2083, 2198, 2199, 2200, 2201, 2310, 2313, 2318, 2319, 2431, 2432, 2433, 2434, 2437, 2551, 2552, 2553, 2554, 2675, 2795, 2797, 2916, 2919, 2920, 3043, 3044, 3168, 3169, 3293, 3294, 3419, 3420, 3547, 3678, 3807, 3808, 3938, 4071, 4203, 4204, 4470, 4471, 4743, 4745	Predicted
John Groves	labeled	2085	Confirmed
Jeff Beane	labeled	1073, 1184, 1292, 1401, 1513, 1515, 1623, 1625, 1628, 1737, 1851, 1961, 1966, 1970, 1971, 2079, 2080, 2081, 2084, 2086, 2196, 2197, 2202, 2314, 2315, 2316, 2557, 3164, 3417, 3421,	Predicted
Jeff Beane	labeled	2549, 2669, 2670, 2791, 2792, 2914, 3038, 3163, 3289, 3415, 3543, 3672, 3673, 3802	Possible
Jeff Beane	labeled	1731, 1844, 1968, 2436, 2555, 2556, 2676	Confirmed
Jeff Beane	labeled	3936, 4067, 4068	Absent

ARADB02010 CARPHOPHIS AMOENUS**WORM SNAKE**

Palmer & Braswell	labeled	1179, 1287, 1290, 1292, 1293, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1509, 1510, 1511, 1512, 1514, 1618, 1619, 1620, 1621, 1622, 1623, 1625, 1626, 1627, 1731, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1742, 1848, 1849, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1964, 1965, 1966, 1967, 1969, 1970, 1971, 2076, 2077, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2437, 2549, 2551, 2552, 2553, 2554, 2555, 2556, 2670, 2671, 2673, 2674, 2675, 2676, 2792, 2793, 2794, 2797, 2915, 2916, 2917, 2918, 3040, 3041, 3044, 3163, 3164, 3165, 3167, 3168, 3169, 3289, 3290, 3293, 3294, 3295, 3416, 3417, 3418, 3420, 3421, 3543, 3544, 3545, 3546, 3547, 3672, 3673, 3676, 3677, 3802, 3803, 3806, 3807, 3935, 3936, 3937, 3938, 4068, 4069, 4070, 4071, 4202, 4203, 4204, 4336, 4470, 4471, 4472, 4607, 4608, 4743, 4744, 4745	Predicted
Jeff Beane	labeled	1180, 1181, 1286, 1288, 1289, 1294, 1395, 1396, 1515, 1617, 1628, 1629, 1630, 1730, 1732, 1844, 1845, 1846, 1847, 1959, 1961, 1962, 1963, 2075, 2078, 2192, 2193, 2310, 2318, 2319, 2548, 2557, 2669, 2677, 2791, 2798, 2799, 2914, 2920, 2921, 2922, 3038, 3039, 3042, 3046, 3170, 3291, 3292, 3415, 3419, 3422, 3548, 3549, 3674, 3675, 3678, 3805, 3934, 3939, 4066, 4067, 4199, 4201, 4334, 4335, 4337, 4338, 4473, 4606, 4609	Predicted
John Groves	labeled	2919	Confirmed

ARADB03010 CEMOPHORA COCCINEA**SCARLET SNAKE**

Jeff Beane	labeled	1184, 1292, 1293, 1294, 1513, 1515, 1623, 1624, 1625, 1628, 1630, 1736, 1737, 1738, 1849, 1850, 1851, 1852, 1963, 1969, 1970, 1971, 2081, 2085, 2086, 2201, 2202, 2315, 2318, 2319, 2433, 2552, 2553, 2557, 2672, 2673, 2674, 2794, 2797, 2798, 2799, 2917, 2920, 2921, 2922, 3040, 3041, 3043, 3044, 3045	Predicted
Palmer & Braswell	labeled	1179, 1400, 1401, 1402, 1403, 1510, 1511, 1514, 1622, 1735, 1739, 1740, 1848, 1853, 1854, 1856, 1964, 1965, 1966, 1967, 2078, 2079, 2080, 2084, 2195, 2196, 2197, 2198, 2199, 2200, 2314, 2316, 2431, 2432, 2434, 2551, 2677, 2795, 2796, 2915, 2916, 2918, 2919, 3164, 3166, 3167, 3168, 3169, 3291, 3293	Predicted

ARADB07010 COLUBER CONSTRICTOR**RACER**

Palmer & Braswell	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1287, 1288, 1289, 1290, 1293, 1294, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1507, 1510, 1512, 1514, 1515, 1618, 1619, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1731, 1732, 1733, 1736, 1738, 1739, 1740, 1741, 1845, 1848, 1849, 1850, 1851, 1852, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1970, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2192, 2193, 2194, 2195, 2199, 2200, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2432, 2434, 2435, 2437, 2549, 2550, 2551, 2552, 2553, 2554, 2556, 2670, 2671, 2673, 2674, 2677, 2792, 2793, 2798, 2799, 2916, 2918, 2919, 2920, 2921, 3040, 3043, 3044, 3163, 3164, 3165, 3166, 3168, 3169, 3289, 3290, 3291, 3292, 3294, 3295, 3417, 3418, 3419, 3421, 3545, 3546, 3547, 3548, 3672, 3674, 3675, 3676, 3803, 3804, 3805, 3806, 3807, 3935, 3936, 3937, 3938, 4067, 4068, 4069, 4070, 4071, 4202, 4203, 4204, 4334, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 1286, 1617, 1730, 1734, 1737, 1844, 1847, 1959, 1971, 2075, 2086, 2196, 2201, 2202, 2548, 2557, 2669, 2672, 2791, 2794, 2914, 2922, 3038, 3039, 3041, 3042, 3046, 3167, 3170, 3293, 3415, 3416, 3420, 3422, 3543, 3544, 3549, 3673, 3677, 3678, 3802, 3934, 3939, 4066, 4199, 4606, 4609, 4744, 4745, 4882	Predicted
Jeff Beane	labeled		Predicted

ARADB10010 DIADOPHIS PUNCTATUS**RINGNECK SNAKE**

Palmer & Braswell	labeled	1287, 1288, 1289, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1506, 1507, 1510, 1511, 1512, 1514, 1618, 1619, 1620, 1624, 1625, 1731, 1732, 1733, 1734, 1735, 1738, 1739, 1741, 1845, 1846, 1847, 1848, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1962, 1966, 1967, 1969, 1970, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2310, 2314, 2315, 2429, 2432, 2433, 2434, 2435, 2436, 2437, 2551, 2552, 2553, 2554, 2556, 2670, 2671, 2674, 2677, 2793, 2795, 2797, 2915, 2916, 2919, 2920, 3040, 3042, 3043, 3044, 3045, 3166, 3167, 3168, 3169, 3289, 3293, 3294, 3416, 3418, 3419, 3420, 3421, 3543, 3544, 3545, 3546, 3547, 3673, 3674, 3675, 3677, 3803, 3804, 3805, 3806, 3807, 3808, 3935, 3936, 3937, 3938, 3939, 4067, 4068, 4069, 4070, 4071, 4200, 4201, 4202, 4203, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4606, 4608, 4609, 4743, 4744, 4745	Predicted
Jeff Beane	labeled	1180, 1181, 1286, 1290, 1292, 1294, 1402, 1403, 1509, 1515, 1617, 1621, 1622, 1623, 1627, 1628, 1629, 1630, 1730, 1736, 1737, 1742, 1844, 1849, 1850, 1959, 1961, 1963, 1964, 1965, 1971, 2075, 2076, 2086, 2199, 2200, 2201, 2202, 2311, 2316, 2317, 2318, 2319, 2548, 2549, 2550, 2557, 2669, 2672, 2673, 2791, 2792, 2794, 2798, 2799, 2914, 2917, 2921, 2922, 3038, 3039, 3041, 3046, 3163, 3164, 3165, 3170, 3291, 3292, 3295, 3415, 3422, 3548, 3549, 3672, 3678, 3802, 3934, 4066, 4199,	Predicted

ARADB13020 ELAPHE GUTTATA**CORN SNAKE**

John Groves	labeled	1511, 2084, 2795, 2919	Confirmed
Palmer & Braswell	labeled	967, 1073, 1074, 1287, 1288, 1289, 1290, 1398, 1399, 1400, 1401, 1402, 1403, 1510, 1621, 1622, 1624, 1625, 1626, 1627, 1735, 1739, 1740, 1742, 1850, 1852, 1853, 1856, 1965, 1967, 2079, 2080, 2199, 2200, 2314, 2315, 2316, 2317, 2318, 2319, 2432, 2437, 2553, 2554, 2674, 2796, 2798, 2916, 2920, 2921, 3043, 3044, 3045, 3163, 3169, 3421, 3676, 3805, 3807, 3808, 4071, 4200, 4204, 4334, 4471, 4472, 4606, 4607, 4608	Predicted

ARADB13030 ELAPHE OBSOLETA**RAT SNAKE**

John Groves	labeled	2084, 2085, 2673, 2794, 2917, 2918, 2919	Confirmed
Palmer & Braswell	labeled	1180, 1288, 1289, 1292, 1293, 1395, 1396, 1398, 1399, 1400, 1402, 1403, 1506, 1510, 1511, 1512, 1514, 1618, 1619, 1621, 1623, 1624, 1625, 1731, 1732, 1733, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1846, 1847, 1848, 1851, 1852, 1853, 1856, 1960, 1961, 1962, 1965, 1970, 2077, 2080, 2081, 2082, 2086, 2198, 2199, 2200, 2202, 2313, 2314, 2318, 2431, 2432, 2433, 2435, 2436, 2550, 2551, 2552, 2553, 2555, 2556, 2670, 2671, 2672, 2677, 2792, 2793, 2798, 2915, 2916, 2920, 2921, 3041, 3042, 3043, 3044, 3165, 3166, 3167, 3168, 3169, 3289, 3290, 3293, 3294, 3418, 3419, 3420, 3421, 3545, 3546, 3674, 3676, 3677, 3803, 3804, 3806, 3807, 3808, 3937, 3938, 4067, 4069, 4070, 4071, 4200, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4471, 4472, 4473, 4608, 4744, 4745	Predicted
JohnAnn Shearer	labeled	1290	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1074, 1181, 1182, 1183, 1184, 1286, 1287, 1294, 1397, 1401, 1508, 1515, 1617, 1627, 1628, 1629, 1630, 1730, 1844, 1845, 1959, 1971, 2075, 2192, 2201, 2310, 2319, 2429, 2430, 2548, 2549, 2557, 2669, 2791, 2799, 2914, 2922, 3038, 3039, 3040, 3045, 3046, 3163, 3164, 3170, 3291, 3292, 3295, 3415, 3416, 3417, 3422, 3543, 3547, 3549, 3672, 3675, 3678, 3802, 3934, 3939, 4066, 4199, 4334, 4606, 4609, 4743,	Predicted

ARADB14010 FARANCIA ABACURA**MUD SNAKE**

John Groves	labeled	1180, 1181, 1289, 1290, 1400, 2084	Confirmed
John Fauth	labeled	2556	Confirmed

Jeff Beane	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1286, 1292, 1293, 1294, 1395, 1515, 1617, 1628, 1629, 1630, 1730, 1732, 1733, 1844, 1845, 1846, 1847, 1848, 1849, 1959, 1963, 1964, 1971, 2075, 2076, 2077, 2079, 2080, 2086, 2192, 2193, 2194, 2202, 2311, 2312, 2319, 2431, 2432, 2433, 2552, 2553, 2557, 2673,	Predicted
Jeff Beane	labeled	2551, 2796, 2797	Possible
Jeff Beane	labeled	2555, 2675	Confirmed
Palmer & Braswell	labeled	1179, 1287, 1396, 1397, 1398, 1399, 1401, 1402, 1403, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1618, 1622, 1623, 1624, 1625, 1627, 1731, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1850, 1851, 1852, 1853, 1854, 1960, 1961, 1962, 1965, 1966, 1967, 1970, 2078, 2081, 2082, 2083, 2085, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2313, 2314, 2315,	Predicted

ARADB14020 FARANCIA ERYTROGRAMMA

RAINBOW SNAKE

John Groves	labeled	1181	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1074, 1180, 1182, 1183, 1184, 1286, 1289, 1290, 1292, 1293, 1294, 1399, 1403, 1508, 1509, 1515, 1617, 1618, 1620, 1621, 1627, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1737, 1738, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1855, 1959, 1960, 1961, 1962, 1964, 1965, 1966, 1967, 1969, 1971, 2075, 2076, 2080, 2081, 2082, 2084, 2085, 2086, 2192, 2197, 2198, 2201, 2202, 2316, 2319, 2434, 2437, 2553, 2556, 2557, 2674, 2675, 2676, 2677, 2796, 2797	Predicted
Palmer & Braswell	labeled	1287, 1288, 1395, 1396, 1397, 1398, 1400, 1401, 1402, 1506, 1507, 1510, 1511, 1513, 1514, 1622, 1623, 1624, 1625, 1626, 1735, 1736, 1740, 1741, 1742, 1852, 1853, 1854, 1856, 1970, 2196, 2317, 2435, 2436, 2554, 2555	Predicted

ARADB17020 HETERODON PLATIRHINOS

EASTERN HOGNOSE SNAKE

Palmer & Braswell	labeled	1072, 1073, 1179, 1182, 1183, 1287, 1289, 1290, 1293, 1395, 1396, 1399, 1400, 1402, 1403, 1507, 1509, 1512, 1514, 1619, 1621, 1622, 1623, 1624, 1625, 1731, 1733, 1734, 1735, 1736, 1737, 1738, 1741, 1742, 1846, 1849, 1850, 1851, 1852, 1854, 1855, 1856, 1960, 1962, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 1971, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2084, 2085, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2313, 2315, 2316, 2317, 2319, 2431, 2432, 2433, 2551, 2552, 2553, 2554, 2670, 2671, 2674, 2675, 2676, 2792, 2797, 2798, 2915, 2916, 2919, 2920, 3042, 3043, 3044, 3163, 3165, 3166, 3167, 3168, 3169, 3290, 3291, 3292, 3293, 3294, 3418, 3419, 3421, 3675, 3676, 3803, 3805, 3807, 3808, 3937, 3938, 4070, 4071, 4204, 4335, 4336, 4337, 4607	Predicted
Jeff Beane	labeled	967, 1180, 1181, 1184, 1286, 1288, 1294, 1397, 1398, 1401, 1506, 1510, 1515, 1617, 1618, 1620, 1628, 1629, 1630, 1730, 1732, 1844, 1845, 1847, 1959, 2075, 2086, 2192, 2193, 2429, 2430, 2437, 2548, 2549, 2550, 2557, 2669, 2672, 2673, 2677, 2791, 2793, 2794, 2799, 2914, 2917, 2918, 2921, 2922, 3038, 3039, 3040, 3041, 3045, 3046, 3164, 3170, 3289, 3295, 3416, 3417, 3420, 3422, 3544, 3545, 3546, 3547, 3548, 3549, 3673, 3674, 3677, 3678, 3804, 3936, 3939, 4069, 4202, 4203, 4338,	Predicted
Jeff Beane	labeled	2436, 2555	Confirmed
John Groves	labeled	2795	Confirmed

ARADB17030 HETERODON SIMUS

SOUTHERN HOGNOSE SNAKE

Palmer & Braswell	labeled	1403, 1624, 1625, 1626, 1627, 1735, 1740, 1851, 1854, 1855, 1962, 1965, 1966, 2080, 2081, 2082, 2084, 2198, 2199, 2313, 2316, 2676, 2677	Predicted
Jeff Beane	labeled	1738, 1739, 1852, 1853	Predicted

ARADB19010 LAMPROPELTIS CALLIGASTER**MOLE KINGSLAKE**

Palmer & Braswell	labeled	1401, 1402, 1403, 1510, 1511, 1512, 1513, 1514, 1620, 1622, 1623, 1624, 1625, 1627, 1732, 1733, 1734, 1735, 1739, 1740, 1741, 1846, 1847, 1848, 1849, 1851, 1852, 1853, 1854, 1856, 1960, 1963, 1964, 1965, 1966, 1970, 2076, 2077, 2078, 2079, 2080, 2081, 2086, 2192, 2193, 2196, 2198, 2199, 2200, 2310, 2314, 2316, 2317, 2431, 2432, 2433, 2437, 2551, 2552, 2556, 2675, 2676, 2677, 2793, 2794, 2797, 2798, 2916, 2917, 2918, 2919, 2920, 2921, 3040, 3042, 3043, 3044, 3045, 3164, 3167,	Predicted
John Fauth	labeled	2550	Confirmed
Jeff Beane	labeled	1292, 1293, 1294, 1399, 1400, 1509, 1515, 1621, 1628, 1629, 1630, 1736, 1737, 1738, 1845, 1850, 1959, 1961, 1962, 1969, 1971, 2075, 2084, 2085, 2194, 2195, 2197, 2201, 2202, 2311, 2312, 2315, 2318, 2319, 2429, 2430, 2548, 2549, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2791, 2792, 2799, 2914, 2922, 3038, 3039, 3041, 3046, 3165, 3166, 3170, 3289, 3291, 3295, 3416, 3417, 3418, 3419, 3420, 3422, 3546, 3547, 3548, 3549,	Predicted

ARADB19020 LAMPROPELTIS GETULA**COMMON KINGSLAKE**

Palmer & Braswell	labeled	1073, 1179, 1180, 1182, 1183, 1287, 1288, 1289, 1290, 1293, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1508, 1509, 1510, 1511, 1513, 1618, 1619, 1620, 1622, 1623, 1624, 1625, 1627, 1731, 1735, 1736, 1739, 1740, 1741, 1742, 1845, 1849, 1850, 1852, 1853, 1854, 1855, 1856, 1960, 1961, 1962, 1963, 1964, 1965, 1969, 1970, 2078, 2079, 2080, 2082, 2083, 2084, 2192, 2195, 2196, 2197, 2199, 2200, 2201, 2313, 2316, 2317, 2318, 2429, 2431, 2432, 2436, 2437, 2550, 2551, 2553, 2556, 2671, 2674, 2677, 2797, 2914, 2916, 2918, 2920, 2921, 3043, 3044, 3163, 3164, 3167, 3168, 3290, 3291, 3292, 3293, 3294, 3416, 3420, 3421, 3549, 3674, 3675, 3804, 3805, 3806, 3807, 3808, 3937, 3938, 3939, 4069, 4070, 4071, 4204, 4337, 4470, 4471, 4472, 4607, 4608	Predicted
Jeff Beane	labeled	3415, 3543, 3544, 3672, 3673, 3802, 3803, 3934, 3935, 3936, 4066, 4067, 4068, 4199, 4200, 4201, 4334	Possible
Jeff Beane	labeled	967, 1072, 1181, 1184, 1286, 1294, 1395, 1515, 1617, 1621, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1737, 1738, 1844, 1846, 1847, 1848, 1851, 1959, 1966, 1967, 1971, 2075, 2076, 2077, 2081, 2085, 2086, 2193, 2194, 2310, 2311, 2312, 2319, 2435, 2548, 2549, 2557, 2669, 2670, 2672, 2673, 2676, 2791, 2792, 2793, 2794, 2798, 2799, 2915, 2917, 2922, 3038, 3039, 3040, 3041, 3042, 3046, 3165, 3166, 3170, 3295, 3417, 3418, 3419, 3422, 3545, 3546, 3547, 3548, 3676, 3677, 3678, 4202, 4203, 4335, 4336, 4338, 4473, 4606, 4609, 4743, 4744, 4745,	Predicted

ARADB19050 LAMPROPELTIS TRIANGULUM**MILK SNAKE**

Palmer & Braswell	labeled	1288, 1289, 1290, 1396, 1398, 1399, 1400, 1401, 1402, 1403, 1507, 1510, 1511, 1512, 1513, 1514, 1624, 1625, 1627, 1735, 1739, 1740, 1850, 1853, 1854, 1856, 1969, 1970, 1971, 2084, 2085, 2313, 2436, 2556, 2672, 2676, 2795, 2797, 2918, 3163, 3169, 3416, 3418, 3543, 3544, 3672, 3673, 3674, 3675, 3678, 3802, 3803, 3805, 3807, 3808, 3935, 3936, 3937, 3938, 3939, 4067, 4068, 4070, 4071, 4200, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470, 4472, 4606, 4607, 4608, 4743	Predicted
Jeff Beane	labeled	1626, 1741, 3417, 3545, 3546, 3677, 3806, 3934, 4066, 4069, 4199, 4334, 4471, 4473, 4609, 4744, 4745, 4882	Predicted

ARADB21020 MASTICOPHIS FLAGELLUM**COACHWHIP**

Palmer & Braswell	labeled	1403, 1513, 1514, 1627, 1630, 1740, 1741, 1850, 1855, 1856, 1964, 1965, 1966, 2084, 2199, 2200, 2201, 2316, 2437, 2554, 2675, 2676, 2677, 2798, 2920, 3044	Predicted
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ARADB22020 NERODIA ERYTHROGASTER**REDBELLY WATER SNAKE**

John Groves	labeled	1181, 1290, 1400, 1620	Confirmed
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Palmer & Braswell	labeled	1180, 1287, 1289, 1396, 1397, 1398, 1399, 1402, 1507, 1508, 1509, 1510, 1512, 1618, 1619, 1622, 1623, 1624, 1627, 1735, 1738, 1739, 1740, 1741, 1845, 1847, 1848, 1849, 1850, 1852, 1853, 1854, 1855, 1962, 1963, 1967, 1969, 1970, 2078, 2079, 2082, 2083, 2084, 2085, 2086, 2195, 2196, 2200, 2201, 2202, 2313, 2317, 2318, 2432, 2433, 2434, 2437, 2551, 2552, 2553,	Predicted
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Jeff Beane	labeled	967, 1072, 1073, 1074, 1179, 1182, 1183, 1184, 1286, 1292, 1293, 1294, 1395, 1403, 1515, 1617, 1621, 1625, 1628, 1629, 1630, 1730, 1732, 1734, 1736, 1737, 1742, 1844, 1846, 1851, 1856, 1959, 1961, 1964, 1965, 1971, 2075, 2076, 2192, 2193,	Predicted
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ARADB22030 NERODIA FASCIATA

BANDED WATER SNAKE

Jeff Beane	labeled	2796, 2797	Absent
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Jeff Beane	labeled	967, 1072, 1073, 1074, 1181, 1182, 1183, 1184, 1286, 1287, 1294, 1395, 1397, 1400, 1506, 1508, 1515, 1617, 1618, 1620, 1621, 1628, 1629, 1630, 1730, 1844, 1845, 1959, 1962, 1971, 2075, 2076, 2077, 2078, 2079, 2086, 2192, 2195, 2196, 2319,	Predicted
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Palmer & Braswell	labeled	1180, 1288, 1289, 1290, 1292, 1293, 1396, 1398, 1399, 1401, 1402, 1403, 1507, 1509, 1510, 1512, 1513, 1514, 1619, 1622, 1623, 1624, 1625, 1626, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1846, 1847, 1848, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1961, 1963, 1964, 1965, 1970, 2080, 2081, 2083, 2084, 2085, 2197, 2198, 2199, 2200, 2201, 2202, 2317, 2435, 2437, 2556, 2677	Predicted
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ARADB22060 NERODIA SIPEDON

NORTHERN WATER SNAKE

Jeff Beane	labeled	967, 1181, 1184, 1399, 1964, 1965, 2081, 2194, 2197, 2198, 2199, 2317, 2431, 2435, 2436, 2548, 2556, 2557, 2669, 2671, 2677, 2791, 2799, 2914, 2917, 2922, 3038, 3040, 3041, 3046, 3170, 3289, 3292, 3295, 3415, 3417, 3418, 3422, 3547, 3677, 3678, 3934, 4066, 4199, 4334, 4609, 4743, 4744, 4882	Predicted
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John Groves	labeled	2795, 2919	Confirmed
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Palmer & Braswell	labeled	1073, 1074, 1182, 1183, 1294, 1403, 1507, 1508, 1509, 1512, 1731, 1732, 1735, 1845, 1848, 1961, 1962, 1963, 2075, 2077, 2078, 2079, 2080, 2192, 2193, 2195, 2196, 2310, 2311, 2312, 2315, 2316, 2429, 2430, 2549, 2551, 2554, 2555, 2670, 2672, 2673, 2674, 2792, 2793, 2794, 2798, 2916, 2918, 2920, 2921, 3042, 3043, 3044, 3163, 3165, 3166, 3167, 3168, 3169, 3290, 3293, 3294, 3416, 3419, 3420, 3421, 3543, 3544, 3545, 3546, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3802, 3804, 3805, 3807, 3808, 3935, 3936, 3937, 3938, 3939, 4067, 4068, 4069, 4070, 4071, 4200, 4201, 4202, 4203, 4335, 4336, 4337, 4338,	Predicted
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ARADB22070 NERODIA TAXISPILOTA

BROWN WATER SNAKE

Jeff Beane	labeled	967, 1072, 1073, 1180, 1181, 1182, 1183, 1184, 1286, 1287, 1292, 1293, 1294, 1397, 1401, 1402, 1403, 1508, 1514, 1515, 1617, 1619, 1626, 1627, 1628, 1629, 1630, 1730, 1732, 1733, 1734, 1735, 1737, 1742, 1844, 1846, 1847, 1849, 1851, 1852, 1853, 1959, 1960, 1963, 1971, 2075, 2076, 2077, 2079, 2081, 2082, 2084, 2086, 2192, 2195, 2196, 2200, 2202, 2314, 2319,	Predicted
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John Groves	labeled	2919	Confirmed
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Palmer & Braswell	labeled	1074, 1179, 1289, 1290, 1395, 1396, 1398, 1399, 1400, 1507, 1509, 1510, 1618, 1620, 1621, 1622, 1623, 1625, 1731, 1736, 1738, 1739, 1740, 1741, 1845, 1848, 1850, 1854, 1855, 1856, 1961, 1962, 1964, 1967, 1968, 1969, 2078, 2080, 2085, 2197, 2198, 2199, 2201, 2315, 2316, 2317, 2435, 2436, 2437, 2555,	Predicted
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ARADB23010 OPHEODRYS AESTIVUS

ROUGH GREEN SNAKE

John Fauth	labeled	3415, 3543, 3672, 3673, 3802, 3803, 3934, 3935, 3937, 4066, 4067, 4068, 4199, 4201, 4202, 4334, 4335, 4336, 4338, 4472, 4473, 4608, 4609, 4744, 4745, 4882	Predicted
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John Groves	labeled	1181, 1182, 1290, 1397, 1400, 1619, 2795, 2919	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1184, 1286, 1294, 1395, 1398, 1401, 1515, 1617, 1628, 1629, 1630, 1730, 1731, 1732, 1733, 1734, 1736, 1737, 1844, 1845, 1846, 1847, 1849, 1851, 1959, 1961, 2075, 2081, 2085, 2086, 2192, 2194, 2202, 2310, 2311, 2319, 2429, 2435, 2437, 2548, 2549, 2557, 2669, 2670, 2671, 2673, 2791, 2794, 2797, 2799, 2914, 2915, 2917, 2922, 3038, 3039, 3040, 3041, 3043, 3044, 3046, 3165, 3166, 3170, 3289, 3291, 3292, 3295, 3416, 3419, 3420, 3422, 3547, 3548, 3549, 3675, 3678,	Predicted
John Fauth	labeled	2550	Confirmed
Palmer & Braswell	labeled	1074, 1180, 1183, 1287, 1288, 1289, 1292, 1293, 1399, 1402, 1506, 1507, 1509, 1510, 1512, 1514, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1738, 1740, 1741, 1742, 1848, 1850, 1852, 1853, 1960, 1962, 1963, 1964, 1965, 1966, 1967, 1970, 1971, 2078, 2079, 2080, 2082, 2083, 2084, 2193, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2312, 2313, 2314, 2316, 2317, 2430, 2431, 2434, 2436, 2556, 2672, 2676, 2677, 2792, 2793, 2798, 2916, 2920, 2921, 3042, 3045, 3163, 3164, 3167, 3169, 3290, 3293, 3294, 3417, 3418, 3421, 3544, 3545, 3546, 3674, 3676, 3677, 3805, 3807, 3936, 3938, 4069, 4070, 4200, 4204,	Predicted

ARADB26010 PITUOPHIS MELANOLEUCUS

PINE SNAKE

Jeff Beane	labeled	2314	Absent
Jeff Beane	labeled	3677, 3678, 3807	Possible
Palmer & Braswell	labeled	1741, 1742, 1854, 1855, 2315, 2797, 4471, 4606, 4607, 4745	Predicted

ARADB27030 REGINA RIGIDA

GLOSSY CRAYFISH SNAKE

Palmer & Braswell	labeled	1397, 1398, 1399, 1513, 1625, 1626, 1741, 1742, 1856, 2083,	Predicted
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ARADB27040 REGINA SEPTEMVITTATA

QUEEN SNAKE

Jeff Beane	labeled	2553, 2554, 2556, 2557, 2670, 2671, 2672, 2676, 2677, 2792, 2793, 2794, 2797, 2798, 2799, 2914, 2915, 2920, 2921, 2922, 3038, 3039, 3041, 3042, 3045, 3046, 3163, 3164, 3166, 3167, 3170, 3291, 3295, 3415, 3416, 3417, 3418, 3422, 3543, 3549, 3677, 3678, 3808, 3934, 3939, 4066, 4071, 4199, 4334, 4338,	Predicted
Palmer & Braswell	labeled	2310, 2312, 2313, 2430, 2431, 2432, 2551, 2552, 2555, 2673, 2674, 2675, 2796, 2917, 2918, 3040, 3043, 3044, 3165, 3168, 3169, 3289, 3290, 3292, 3293, 3294, 3419, 3420, 3421, 3544, 3545, 3546, 3547, 3548, 3672, 3673, 3674, 3675, 3676, 3802, 3804, 3805, 3806, 3807, 3935, 3936, 3938, 4067, 4068, 4070, 4200, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4470, 4471,	Predicted
John Fauth	labeled	2550	Confirmed
Chris McGrath	labeled	3937, 4069	Confirmed
John Groves	labeled	2919	Confirmed

ARADB28010 RHADINAEA FLAVILATA

PINE WOODS SNAKE

Jeff Beane	labeled	1292, 2556	Confirmed
Palmer & Braswell	labeled	1287, 1293, 1294, 1400, 1402, 1403, 1512, 1513, 1625, 1627, 1739, 1853, 1856, 1967, 1969, 1970, 2082	Predicted

ARADB31010 SEMINATRIX PYGAEA

BLACK SWAMP SNAKE

Palmer & Braswell	labeled	1180, 1287, 1288, 1289, 1293, 1398, 1403, 1513, 1514, 1627, 1740, 1741, 1854, 1856, 1970, 1971	Predicted
Jeff Beane	labeled	1179	Confirmed

ARADB34010 STORERIA DEKAYI**BROWN SNAKE**

Palmer & Braswell	labeled	1072, 1074, 1180, 1184, 1287, 1288, 1289, 1290, 1292, 1293, 1395, 1398, 1399, 1400, 1402, 1403, 1506, 1509, 1510, 1511, 1512, 1618, 1619, 1620, 1622, 1624, 1625, 1626, 1627, 1733, 1735, 1740, 1741, 1742, 1845, 1848, 1849, 1850, 1854, 1855, 1856, 1963, 1964, 1967, 1969, 1970, 2075, 2078, 2079, 2080, 2082, 2083, 2084, 2196, 2197, 2201, 2311, 2315, 2316, 2430, 2431, 2433, 2434, 2552, 2554, 2555, 2793, 2798, 2918, 2919, 2920, 2921, 3040, 3042, 3043, 3044, 3163, 3164, 3165, 3167, 3168, 3169, 3291, 3292, 3293, 3294, 3420, 3421, 3806, 3808, 3936, 4069, 4071, 4204, 4335, 4336, 4470, 4471, 4472, 4606,	Predicted
John Fauth	labeled	3289, 3290, 3415, 3416, 3417, 3543, 3544, 3545, 3672, 3673, 3674, 3802, 3803, 3804, 3934, 3935, 4066, 4067, 4199, 4200,	Predicted
Jeff Beane	labeled	2314, 2432, 2436	Confirmed
Jeff Beane	labeled	967, 1073, 1181, 1182, 1183, 1286, 1294, 1401, 1515, 1617, 1621, 1623, 1628, 1629, 1630, 1730, 1731, 1732, 1734, 1736, 1737, 1738, 1739, 1844, 1846, 1847, 1851, 1852, 1853, 1959, 1960, 1961, 1965, 1966, 1971, 2076, 2077, 2081, 2085, 2086, 2192, 2193, 2195, 2198, 2199, 2200, 2202, 2310, 2312, 2317, 2318, 2319, 2429, 2435, 2437, 2548, 2549, 2550, 2553, 2556, 2557, 2669, 2670, 2671, 2672, 2673, 2791, 2792, 2794, 2799, 2914, 2915, 2917, 2922, 3038, 3039, 3041, 3046, 3166, 3170, 3295, 3418, 3419, 3422, 3546, 3547, 3548, 3549, 3675, 3676, 3677, 3678, 3805, 3807, 3937, 3938, 3939, 4068, 4070, 4202,	Predicted

ARADB34030 STORERIA OCCIPITOMACULATA**REDBELLY SNAKE**

Jeff Beane	labeled	2436, 3416, 3544	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1074, 1182, 1183, 1184, 1293, 1294	Possible
Jeff Beane	labeled	1180, 1181, 1286, 1287, 1288, 1289, 1290, 1292, 1395, 1396, 1397, 1398, 1400, 1401, 1402, 1403, 1506, 1508, 1509, 1511, 1515, 1617, 1618, 1619, 1620, 1621, 1622, 1628, 1629, 1630, 1730, 1733, 1734, 1735, 1736, 1737, 1844, 1846, 1847, 1851, 1959, 1960, 1961, 1963, 1964, 1965, 1966, 1970, 1971, 2075, 2076, 2077, 2081, 2086, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2318, 2319, 2429, 2430, 2437, 2548, 2549, 2550, 2554, 2557, 2669, 2671, 2672, 2673, 2674, 2675, 2677, 2792, 2793, 2797, 2914, 2915, 2920, 2922, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3046, 3163, 3165, 3166, 3167, 3170, 3289, 3290, 3292, 3293, 3295, 3415, 3417, 3420, 3421, 3422, 3543, 3546, 3547, 3548, 3549, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3802, 3803, 3808, 3934, 3939, 4066, 4067, 4068, 4071, 4199, 4200, 4201, 4334, 4473, 4606, 4609, 4743, 4744, 4882	Predicted
John Groves	labeled	2795	Confirmed
Palmer & Braswell	labeled	1179, 1399, 1507, 1510, 1512, 1513, 1514, 1623, 1624, 1625, 1731, 1732, 1738, 1739, 1742, 1845, 1848, 1849, 1850, 1852, 1853, 1854, 1855, 1856, 1962, 1968, 1969, 2078, 2079, 2080, 2082, 2083, 2084, 2085, 2313, 2314, 2315, 2316, 2317, 2431, 2432, 2434, 2435, 2551, 2552, 2553, 2670, 2791, 2794, 2798, 2799, 2916, 2917, 2918, 2919, 2921, 3164, 3168, 3169, 3291, 3294, 3418, 3419, 3545, 3806, 3807, 3935, 3936, 3937, 3938, 4069, 4070, 4202, 4203, 4204, 4335, 4336, 4337, 4338, 4470,	Predicted

ARADB35020 TANTILLA CORONATA**SOUTHEASTERN CROWNED SNAKE**

Jeff Beane	labeled	2555, 2676	Confirmed
John Groves	labeled	2795	Confirmed
Palmer & Braswell	labeled	1293, 1403, 1627, 1628, 1629, 1735, 1851, 1964, 1965, 1966, 1971, 2082, 2198, 2199, 2310, 2313, 2316, 2318, 2432, 2434, 2437, 2551, 2554, 2556, 2675, 2677, 2793, 2916, 2918, 2919, 3045, 3163, 3167, 3168, 3293, 3418, 3419, 3421, 3675, 3676,	Predicted

ARADB36120 THAMNOPHIS SAURITUS**EASTERN RIBBON SNAKE**

Palmer & Braswell	labeled	1074, 1180, 1287, 1288, 1290, 1294, 1396, 1398, 1399, 1400, 1402, 1403, 1507, 1511, 1512, 1513, 1514, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1731, 1733, 1735, 1736, 1739, 1741, 1742, 1847, 1849, 1850, 1852, 1853, 1856, 1963, 1964, 1965, 1970, 2077, 2078, 2079, 2080, 2083, 2084, 2195, 2196, 2197, 2313, 2314, 2315, 2432, 2433, 2435, 2437, 2556, 2915, 2918, 2920, 3040, 3044, 3167, 3168, 3169, 3293, 3294, 3672, 3673,	Predicted
Jeff Beane	labeled	967, 1072, 1073, 1181, 1182, 1183, 1184, 1286, 1289, 1292, 1293, 1395, 1397, 1401, 1506, 1508, 1509, 1515, 1617, 1618, 1628, 1629, 1630, 1730, 1732, 1734, 1737, 1738, 1740, 1844, 1845, 1846, 1848, 1851, 1854, 1959, 1960, 1961, 1966, 1967, 1969, 1971, 2075, 2081, 2082, 2085, 2086, 2192, 2193, 2194, 2198, 2199, 2200, 2201, 2202, 2310, 2311, 2312, 2316, 2317, 2318, 2319, 2429, 2430, 2431, 2434, 2436, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2677, 2791, 2792, 2793, 2794, 2796, 2797, 2798, 2799, 2914, 2917, 2919, 2921, 2922, 3038, 3039, 3041, 3042,	Predicted
John Groves	labeled	2795	Confirmed

ARADB36130 THAMNOPHIS SIRTALIS**COMMON GARTER SNAKE**

Palmer & Braswell	labeled	1287, 1288, 1289, 1290, 1395, 1396, 1397, 1398, 1399, 1400, 1403, 1506, 1507, 1508, 1509, 1511, 1512, 1513, 1514, 1618, 1619, 1620, 1622, 1623, 1624, 1625, 1626, 1627, 1732, 1734, 1735, 1736, 1737, 1740, 1741, 1742, 1846, 1847, 1848, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1960, 1961, 1965, 1966, 1967, 1969, 1970, 2077, 2078, 2079, 2081, 2082, 2195, 2196, 2198, 2199, 2200, 2311, 2312, 2313, 2314, 2315, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2437, 2549, 2551, 2552, 2554, 2670, 2671, 2672, 2673, 2674, 2792, 2794, 2795, 2798, 3040, 3043, 3044, 3045, 3165, 3168, 3169, 3291, 3293, 3294, 3417, 3419, 3420, 3421, 3543, 3544, 3545, 3672, 3673, 3674, 3675, 3803, 3804, 3805, 3807, 3808, 3935, 3936, 3937, 3938, 4068, 4069, 4070, 4071, 4200, 4201, 4202, 4203, 4204, 4335, 4336, 4337, 4470, 4472, 4606, 4608	Predicted
Jeff Beane	labeled	1179, 1181, 1286, 1292, 1401, 1515, 1617, 1621, 1628, 1629, 1630, 1730, 1733, 1738, 1739, 1844, 1845, 1849, 1959, 1963, 1964, 1971, 2075, 2076, 2080, 2084, 2085, 2086, 2192, 2193, 2194, 2197, 2201, 2202, 2310, 2316, 2317, 2319, 2548, 2550, 2553, 2557, 2669, 2677, 2791, 2793, 2799, 2914, 2915, 2917, 2920, 2921, 2922, 3038, 3039, 3041, 3042, 3046, 3163, 3164, 3166, 3167, 3170, 3289, 3290, 3292, 3295, 3415, 3418, 3422, 3546, 3547, 3548, 3549, 3677, 3678, 3802, 3934, 3939, 4066, 4067, 4199, 4334, 4338, 4473, 4609, 4743, 4744, 4745, 4882	Predicted
John Groves	labeled	2919	Confirmed

ARADB39010 VIRGINIA STRIATULA**ROUGH EARTH SNAKE**

Jeff Beane	labeled	967, 1072, 1073, 1074, 1180, 1181, 1182, 1183, 1184, 1286, 1288, 1289, 1290, 1292, 1294, 1395, 1396, 1397, 1398, 1400, 1401, 1509, 1512, 1515, 1621, 1623, 1625, 1628, 1629, 1630, 1734, 1737, 1738, 1847, 1848, 1849, 1850, 1851, 1853, 1961, 1962, 1963, 1964, 1965, 1966, 2077, 2078, 2080, 2081, 2082, 2084, 2086, 2194, 2195, 2198, 2199, 2311, 2312, 2314, 2317, 2318, 2319, 2429, 2430, 2434, 2437, 2548, 2549, 2550, 2553, 2557, 2669, 2670, 2671, 2672, 2673, 2674, 2677, 2791, 2792, 2794, 2796, 2797, 2798, 2799, 2914, 2915, 2917, 2918, 2919, 2920, 2921, 2922, 3038, 3039, 3040, 3041, 3043, 3044, 3045, 3046, 3165, 3166, 3167, 3168, 3169, 3170, 3291, 3292, 3294,	Predicted
Palmer & Braswell	labeled	1179, 1287, 1399, 1507, 1508, 1510, 1619, 1620, 1622, 1624, 1627, 1733, 1735, 1736, 1739, 1740, 1741, 1742, 1852, 1854, 1855, 1856, 1967, 1969, 1970, 1971, 2079, 2083, 2085, 2193, 2200, 2201, 2202, 2310, 2313, 2315, 2316, 2431, 2433, 2435, 2436, 2551, 2552, 2554, 2555, 2675, 2676, 2793, 2916, 3042,	Predicted

ARADB39020 VIRGINIA VALERIAE**SMOOTH EARTH SNAKE**

Palmer & Braswell	labeled	1514, 1625, 1731, 1735, 1736, 1739, 1741, 1742, 1849, 1853, 1966, 2082, 2083, 2084, 2194, 2311, 2312, 2430, 2431, 2433, 2552, 2796, 2918, 2920, 2921, 3168, 3169, 3292, 3293, 3421, 3806, 3937, 4204, 4336, 4608	Predicted
Jeff Beane	labeled	2313, 2432, 2555, 2675	Confirmed
Jeff Beane	labeled	2556	Possible
Jeff Beane	labeled	2797	Predicted

ARADC02010 MICRURUS FULVIUS**EASTERN CORAL SNAKE**

Palmer & Braswell	labeled	1740, 1742, 1854, 1856, 2083, 2200, 2316, 2434, 2555, 2556	Predicted
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ARADE01010 AGKISTRODON CONTORTRIX**COPPERHEAD**

Jeff Beane	labeled	1294, 1396, 1515, 1617, 1620, 1621, 1628, 1629, 1630, 1730, 1732, 1844, 1845, 1856, 1959, 1961, 1971, 2075, 2076, 2077, 2081, 2086, 2192, 2193, 2311, 2429, 2548, 2557, 2669, 2673, 2677, 2791, 2794, 2799, 2914, 2922, 3038, 3039, 3046, 3170, 3293, 3295, 3415, 3419, 3420, 3422, 3543, 3548, 3549, 3672, 3673, 3678, 3802, 3803, 3934, 3935, 3936, 3939, 4066, 4067, 4068, 4199, 4201, 4202, 4334, 4335, 4336, 4338, 4473, 4606,	Predicted
John Fauth	labeled	2550	Confirmed
John Groves	labeled	1181, 1290, 2795	Confirmed
Palmer & Braswell	labeled	1180, 1287, 1289, 1292, 1293, 1398, 1399, 1400, 1401, 1402, 1403, 1506, 1509, 1510, 1512, 1513, 1514, 1618, 1619, 1622, 1623, 1624, 1625, 1626, 1627, 1731, 1733, 1734, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1854, 1855, 1960, 1962, 1963, 1964, 1965, 1966, 1967, 1969, 1970, 2078, 2079, 2080, 2082, 2083, 2084, 2085, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2310, 2312, 2313, 2315, 2316, 2317, 2319, 2431, 2435, 2436, 2437, 2549, 2553, 2554, 2556, 2674, 2792, 2793, 2798, 2916, 2917, 2918, 2920, 2921, 3040, 3042, 3044, 3045, 3163, 3164, 3165, 3166, 3168, 3169, 3290, 3291, 3292, 3294, 3416, 3417, 3418, 3421, 3544, 3545, 3546, 3547, 3675, 3676, 3677, 3804, 3805, 3806, 3937, 3938, 4070, 4071, 4200, 4203, 4204, 4337, 4470, 4471, 4472, 4608, 4745	Predicted
Chris McGrath	labeled	3807, 4069	Confirmed

ARADE01020 AGKISTRODON PISCIVORUS**COTTONMOUTH**

Jeff Beane	labeled	1179, 1180	Confirmed
Palmer & Braswell	labeled	1287, 1288, 1289, 1293, 1395, 1396, 1398, 1399, 1400, 1402, 1403, 1506, 1507, 1509, 1510, 1512, 1513, 1514, 1618, 1619, 1622, 1625, 1627, 1731, 1732, 1733, 1734, 1735, 1738, 1739, 1740, 1741, 1844, 1845, 1851, 1852, 1853, 1855, 1856, 1960, 1967, 1970, 2076, 2077, 2078, 2079, 2080, 2083, 2084, 2085, 2192, 2194, 2196, 2197, 2198, 2199, 2310, 2311, 2316, 2435,	Predicted
John Groves	labeled	2436, 2555	Confirmed
Jeff Beane	labeled	967, 1072, 1073, 1181, 1182, 1183, 1184, 1286, 1292, 1294, 1397, 1401, 1508, 1515, 1617, 1620, 1621, 1624, 1628, 1629, 1630, 1730, 1736, 1737, 1847, 1848, 1849, 1850, 1854, 1959, 1961, 1962, 1963, 1964, 1965, 1971, 2075, 2081, 2082, 2086, 2195, 2200, 2201, 2202, 2315, 2317, 2318, 2319, 2557	Predicted
JohnAnn Shearer	labeled	1290	Confirmed

ARADE02010 CROTALUS ADAMANTEUS**EASTERN DIAMONDBACK RATTLESNAKE**

Jeff Beane	labeled	2315	Absent
Jeff Beane	labeled	2316, 2318	Possible

Palmer & Braswell	labeled	1513, 1625, 1627, 1738, 1739, 1740, 1741, 1742, 1852, 1854, 1855, 1967, 1969, 2083	Predicted
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ARADE02040 CROTALUS HORRIDUS

TIMBER RATTLESNAKE

Chris McGrath	labeled	3163, 3164, 3936, 4069, 4070, 4338	Confirmed
Jeff Beane	labeled	967, 1073	Predicted
John Groves	labeled	1511, 2795	Confirmed
Palmer & Braswell	labeled	1074, 1180, 1287, 1288, 1289, 1290, 1292, 1396, 1398, 1399, 1400, 1402, 1403, 1507, 1509, 1512, 1513, 1618, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1732, 1733, 1735, 1736, 1737, 1739, 1740, 1741, 1742, 1848, 1852, 1853, 1855, 1965, 1967, 1970, 1971, 2082, 2085, 2201, 2316, 2319, 2430, 2550, 2677, 2918, 3045, 3289, 3290, 3293, 3420, 3544, 3546, 3547, 3673, 3674, 3676, 3677, 3678, 3802, 3804, 3805, 3808, 3938, 4068, 4071, 4202, 4204, 4334, 4335, 4336, 4337, 4470, 4471,	Predicted

ARADE03020 SISTRURUS MILIARIUS

PIGMY RATTLESNAKE

Palmer & Braswell	labeled	1289, 1292, 1399, 1400, 1402, 1510, 1627, 1739, 1740, 1741, 1742, 1853, 1854, 1855, 1856, 1969, 2083, 2084, 2200, 2316, 2317, 2434, 2919	Predicted
Jeff Beane	labeled	2435, 2436, 2556, 3421	Confirmed
John Groves	labeled	1511, 1623	Confirmed
John Groves / JohnAnn Shearer	labeled	1290	Confirmed

Appendix O. Relational table for spatial constraint variables.

ListSpp414_Ancill.txt

AAAAA01070 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 0
AAAAA01090 50 50 1 -18 762
AAAAA01100 0 200 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 -18 609
AAAAA01120 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 -18 2500
AAAAA01140 0 0 0 0 0 0 0 0 0 0 1 0 0 1 1 0 0 1 0 0 0 0 0 0 -18 0
AAAAA01010 200 200 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 0
AAAAA01010 1 0 9999 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 -18 762
AAAAA01010 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 1 210 1341
AAAAA03010 50 50 1 -18 1341
AAAAA03020 50 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 0
AAAAA03040 50 50 50 -18 2500
AAAAA03050 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 899 2026
AAAAA03060 1 0 50 -18 2500
AAAAA03080 1 0 50 1 502 2500
AAAAA03100 1 800 1999
AAAAA03110 50 0 50 1 676 1804
AAAAA03130 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 -18 2500
AAAAA03140 50 -18 2500
AAAAA03150 50 -18 2500
AAAAA05020 50 1 359 731
AAAAA05040 200 1 -18 609
AAAAA05090 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA05140 50 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 -18 365
AAAAA05150 200 0 50 1 259 2500
AAAAA05290 200 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA06020 200 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 213 2500
AAAAA08010 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA10010 1 0 50 1 0 -18 2500
AAAAA12020 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA12070 -18 2500
AAAAA12090 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 548 2500
AAAAA12150 -18 2500
AAAAA12160 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 -18 2500
AAAAA12220 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 -18 2500
AAAAA12230 1 701 1798
AAAAA12240 50 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 429 1706
AAAAA12250 1 -18 762
AAAAA12300 -18 2500
AAAAA12370 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 -18 2500
AAAAA13010 50 0 50 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA13020 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAA14010 50 50 50 0 1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAE01030 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 182
AAAAE01040 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAE01050 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAF01030 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAG02010 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAAAG02020 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABB01020 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABB01130 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABB01160 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 -18 2500
AAABB01210 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 0 -18 2500
AAABC01010 50 50 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC01020 50 50 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC02010 0 0 0 0 1 1 0 0 0 0 1 1 0 1 1 0 0 1 0 0 0 0 0 0 -18 2500

Appendix N: Arc Macro Language scripts used in vertebrate distribution modeling.

```
/******  
/* MultiVert_NC.aml  
/* -----  
/* Multivert_NC.aml runs an aml on multiple species listed in a  
/* text file.  
/* Create a text file that lists the species elcode and ancillary  
/* data values line by line (ListSp414_Ancil1.txt).  
/* Runs Expanded ranges (huc14) and ancillary data.  
/*  
/* Steve Williams 14may03  
/******  
/* The structure of the list file is a space delimited  
/* text file with the following fields:  
/*  
/* .ElCode  
/* .BuffOutWater  
/* .BuffWetVeg  
/* .BuffInWater  
/* .WType  
/* .Fresh  
/* .Brack  
/* .Salt  
/* .OBX  
/* .DSoils  
/* .SoilSand  
/* .SoilLoam  
/* .SoilClay  
/* .SoilHydric  
/* .SoilMesic  
/* .SoilXeric  
/* .SoilCompact  
/* .SoilLoose  
/* .SoilTalas  
/* .Edge  
/* .Avoid  
/* .Elev  
/* .ElevMin  
/* .ElevMax  
/******  
/******  
&terminal 9999  
&sv dl [getfile List*.txt -other]  
&sv .SppList [entryname %d%]  
  
&ty Select what you want to do with temporary data...  
&ty -----  
&ty d - Delete temporary data (default)  
&ty k - Keep temporary data  
&select [getchar 'Please enter your choice... (D/k)' d]  
  &when [locase k]  
    &sv .choice keep  
  &when [locase d]  
    &sv .choice delete  
  &otherwise  
    &stop  
&end
```

```
GRID
/*****
&s fileunit [open %SppList% openstatus -read]
&if %openstatus% ne 0 &then ~
  &return &warning Error opening file %SppList%
&label next_spp
&s .Species [read %fileunit% readstatus]
&if %readstatus% ne 0 &th &goto no_more_spp
/*****
  &if %Species% = " = .false. &then
    &r NCVert_30m.aml [unquote %Species%]
/*****
&goto next_spp
&label no_more_spp
&if [close %fileunit%] ne 0 &th [close -all]
/*****
&ty; &ty MultiVert_RTNCF.aml has finished with %SppList%

QUIT
&return
```

```

/*#####
/* NCVERT_30M.AML
/* run by MultiVert_NC.aml
/* -----
/* NCVERT_EXP_ANCIL.AML will create a grid depicting known range
/* (0/1) and a grid that depicts distribution within the known
/* range, including vegetation type.
/*
/* To run this model you will need the following files:
/* %.VEGMAP% a grid of landcover
/* %.RANGE% a grid of EPA hexagonal range
/* %.HUC14% a grid of 14 digit hydrologic units
/* %.MODELMASK% a grid of the modeling extent
/* %.OBX_ON% a grid of the outerbanks (buffered)
/* %.OBX_OFF% a grid of excluding the outerbanks (buffered)
/* %.AVOIDGRD% a grid of human dominated areas
/* %.ELEVGRD% a grid of elevation
/* %.EDGEGRD% a grid of buffered edge habitat
/* %.DSOILGRD% a grid of detailed soils (NCRCS-SSURGO)
/* %.NONWATER% a grid of nonwater covertype
/* %.HYDROBUF% a grid of buffered hydrology
/* %.WETVEGBUF% a grid of buffered wet vegetation
/* %.WATERTYPE% a grid of fresh, brackish or salt water/marsh
/* %.OW_FRESH% a grid of buffered fresh open water
/* %.OW_BRACK% a grid of buffered brackish open water
/* %.OW_SALT% a grid of buffered salt open water
/* %.WV_FRESH% a grid of buffered fresh wet vegetation
/* %.WV_BRKSALT% a grid of buffered brackish/salt wet vegetation
/*
/* RELATE_SETUP.AML creates range and hab. INFO files and relates
/* RNGXXXX.CSV CSV files of spp. occur. within range cells
/*
/* HABXXXX.CSV CSV files of species habitat relates
/* XHBXXXX.CSV CSV files of species excluded habitat relates
/* SOIL_CREATE_RELATE.AML creates dsoil INFO file and relates
/* DSOILSXXXX.CSV CSV file of dsoil attributes
/*
/* The model will limit occupied cells to those within a range map,
/* using a relate back to the distribution datafiles.
/* Those datafiles are INFO files created from the distribution
/* data.
/* It will also inspect a habitat matrix and only select vegetation
/* that is utilized (1). If a group of contiguous utilized
/* habitat occurs at the edge of the species' known range, ALL of
/* the contiguous cells within a subwatershed is selected. If the
/* contiguous group of cells continues past the edge of the
/* subwatershed, the predicted habitat will end at the subwatershed
/* boundary.
/* Additional range constraints are employed for hydrology,
/* elevation, soils, etc.
/*
/* MultiVert_30m.aml is used to automate the application of
/* NCVERT_30M.AML to multiple species from a single command.
/*
/* Products:
/* d_%.elcode% = dist. grid of output species with attributes
/* for vegetation type (#) and distribution.
/* s1_%.elcode% = distribution of species with 0's instead of null
/* data (0/1).
/*
/* Steve Williams 14may03

```



```

/*#####
&args .ElCode .BuffOutWater .BuffWetVeg .BuffInWater .MHBuff .WType ~
    .Fresh .Brack .Salt .OBX .DSoils .SoilSand .SoilLoam .SoilClay ~
    .SoilHydric .SoilMesic .SoilXeric .SoilCompact .SoilLoose ~
    .SoilTalas .Edge .Avoid .IntFor .Elev .ElevMin .ElevMax:REST
&ty #####
&ty Working on %ElCode%...
&ty

&ty Setting variables...
&sv .DirWS i:/proj/ngcap/vert/nc_dist/workspace
&sv .DirOutput %DirWS%/output
&sv .VegMap %DirWS%/LC_NCGAP
&sv .Range %DirWS%/Range_30
&sv .Huc14 %DirWS%/Huc14_NC_SP
&sv .ModelMask %DirWS%/NC_LC_Mask
&sv .OBX_On %DirWS%/ancillary/obxmask/OBX_Mask_On
&sv .OBX_Off %DirWS%/ancillary/obxmask/OBX_Mask_Off
&sv .AvoidGrd %DirWS%/ancillary/misc/Avoid_30
&sv .ElevGrd %DirWS%/ancillary/misc/Elev_30
&sv .EdgeGrd %DirWS%/ancillary/misc/Edge_30
&sv .IntForGrd %DirWS%/ancillary/misc/IntFor_30
&sv .DSoilGrd %DirWS%/ancillary/soildata/DSoil_30
&sv .NonWater %DirWS%/ancillary/hydro/NonWater
&sv .HydroBuf %DirWS%/ancillary/hydro/OpenWaterBuff
&sv .WetVegBuf %DirWS%/ancillary/hydro/WetVegBuff
&sv .MHBuf %DirWS%/ancillary/hydro/MHBuf
&sv .WaterType %DirWS%/ancillary/hydro/WaterType
&sv .OW_Fresh %DirWS%/ancillary/hydro/OW_Fresh
&sv .OW_Brack %DirWS%/ancillary/hydro/OW_Brack
&sv .OW_Salt %DirWS%/ancillary/hydro/OW_Salt
&sv .WV_Fresh %DirWS%/ancillary/hydro/WV_Fresh
&sv .WV_BrkSalt %DirWS%/ancillary/hydro/WV_BrkSalt
/*#####
/* checking the arguments for content
&if [null %ElevMax%] &then &do
    &ty; &ty \ There's a problem with the Model Ancillary data format. \
        &ty \ Stopping execution. \
    &return; &end
/*#####
/* check for the existence of required grids
&do g &list %VegMap% %Range% %Huc14% %ModelMask% %IntForGrd% ~
    %OBX_On% %OBX_Off% %DSoilGrd% %EdgeGrd% ~
    %AvoidGrd% %ElevGrd% %NonWater% %HydroBuf% ~
    %WetVegBuf% %WaterType% %OW_Fresh% %OW_Brack% ~
    %OW_Salt% %WV_Fresh% %WV_BrkSalt% %MHBuf%
&if [exists %g% -grid] = .false. &then; &do
    &ty; &ty \ %g% does not exist. \
        &ty \ Stopping execution. \
    &return; &end
/*#####
/* check for the existence of range and habitat relate files
&do i &list rng_amph.fil rng_avn1.fil rng_avn2.fil ~
    rng_avn3.fil rng_mamm.fil rng_rept.fil ~
    hab_amph.fil hab_avn1.fil hab_avn2.fil ~
    hab_avn3.fil hab_mamm.fil hab_rept.fil ~
    xhb_amph.fil xhb_avn1.fil xhb_avn2.fil ~
    xhb_avn3.fil xhb_mamm.fil xhb_rept.fil ~
    rng_hab.rel
&if [exists %i% -info] = .false. &then; &do
    &ty; &ty \ %i% does not exist. \

```

```

        &ty \ Stopping execution.
    &return; &end
/* check for the existence of detailed soil relate files
&do i &list ds_3024mt.fil dsoils.rel
&if [exists %i% -info] = .false. &then; &do
    &ty; &ty \ dsoil relate does not exist.
        &ty \ Stopping execution.
    &return; &end
/*****
/* setting the TAXA variable
&if [translate [substr %.ElCode% 2 1]] = A &then; &s .Taxa = amph
&else
&if [translate [substr %.ElCode% 2 1]] = R &then; &s .Taxa = rept
&else
&if [translate [substr %.ElCode% 2 1]] = M &then; &s .Taxa = mamm
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
    [translate [substr %.ElCode% 3 1]] = N and ~
    ( [translate [substr %.ElCode% 4 1]] = A or ~
    [translate [substr %.ElCode% 4 1]] = B or ~
    [translate [substr %.ElCode% 4 1]] = C or ~
    [translate [substr %.ElCode% 4 1]] = D or ~
    [translate [substr %.ElCode% 4 1]] = E or ~
    [translate [substr %.ElCode% 4 1]] = F or ~
    [translate [substr %.ElCode% 4 1]] = G or ~
    [translate [substr %.ElCode% 4 1]] = H or ~
    [translate [substr %.ElCode% 4 1]] = I or ~
    [translate [substr %.ElCode% 4 1]] = J or ~
    [translate [substr %.ElCode% 4 1]] = K or ~
    [translate [substr %.ElCode% 4 1]] = L or ~
    [translate [substr %.ElCode% 4 1]] = M or ~
    [translate [substr %.ElCode% 4 1]] = N ) &then; &s .Taxa = avn1
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
    [translate [substr %.ElCode% 3 1]] = N and ~
    ( [translate [substr %.ElCode% 4 1]] = P or ~
    [translate [substr %.ElCode% 4 1]] = Q or ~
    [translate [substr %.ElCode% 4 1]] = R or ~
    [translate [substr %.ElCode% 4 1]] = S or ~
    [translate [substr %.ElCode% 4 1]] = T or ~
    [translate [substr %.ElCode% 4 1]] = U or ~
    [translate [substr %.ElCode% 4 1]] = V or ~
    [translate [substr %.ElCode% 4 1]] = W or ~
    [translate [substr %.ElCode% 4 1]] = X or ~
    [translate [substr %.ElCode% 4 1]] = Y or ~
    [translate [substr %.ElCode% 4 1]] = Z ) &then; &s .Taxa = avn2
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
    [translate [substr %.ElCode% 3 1]] = P and ~
    [translate [substr %.ElCode% 4 1]] = A &then; &s .Taxa = avn2
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
    [translate [substr %.ElCode% 3 1]] = P and ~
    [translate [substr %.ElCode% 4 1]] = B and ~
    ( [translate [substr %.ElCode% 5 1]] = A or ~
    [translate [substr %.ElCode% 5 1]] = B or ~
    [translate [substr %.ElCode% 5 1]] = C or ~
    [translate [substr %.ElCode% 5 1]] = D or ~
    [translate [substr %.ElCode% 5 1]] = E or ~
    [translate [substr %.ElCode% 5 1]] = F or ~
    [translate [substr %.ElCode% 5 1]] = G or ~

```

```

[translate [substr %.ElCode% 5 1]] = H or ~
[translate [substr %.ElCode% 5 1]] = I or ~
[translate [substr %.ElCode% 5 1]] = J ) &then; &s .Taxa = avn2
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
[translate [substr %.ElCode% 3 1]] = P and ~
[translate [substr %.ElCode% 4 1]] = B and ~
( [translate [substr %.ElCode% 5 1]] = K or ~
[translate [substr %.ElCode% 5 1]] = L or ~
[translate [substr %.ElCode% 5 1]] = M or ~
[translate [substr %.ElCode% 5 1]] = N or ~
[translate [substr %.ElCode% 5 1]] = O or ~
[translate [substr %.ElCode% 5 1]] = P or ~
[translate [substr %.ElCode% 5 1]] = Q or ~
[translate [substr %.ElCode% 5 1]] = R or ~
[translate [substr %.ElCode% 5 1]] = S or ~
[translate [substr %.ElCode% 5 1]] = T or ~
[translate [substr %.ElCode% 5 1]] = U or ~
[translate [substr %.ElCode% 5 1]] = V or ~
[translate [substr %.ElCode% 5 1]] = W ) &then; &s .Taxa = avn2
&else
&if [translate [substr %.ElCode% 2 1]] = B and ~
[translate [substr %.ElCode% 3 1]] = P and ~
[translate [substr %.ElCode% 4 1]] = B and ~
( [translate [substr %.ElCode% 5 1]] = X or ~
[translate [substr %.ElCode% 5 1]] = Y or ~
[translate [substr %.ElCode% 5 1]] = Z ) &then; &s .Taxa = avn3
&else
&do; &ty; &ty \ Foiled at the taxa variable. \; &return; &end
&if [substr %.Taxa% 1 3] = avn &then
&do; &sv .Taxa2 aves
&sv .DirTaxa %.DirOutput%/aves; &end
&else
&do; &sv .Taxa2 %.Taxa%
&sv .DirTaxa %.DirOutput%/%.Taxa%; &end
/*****
/* removing previous outputs and temp files
&ty; &ty Removing previous outputs and temp files...
&sv x1 = [listfile 'X*' -grid]
&sv x2 = [listfile [quote output/%.taxa2%/X*] -grid]
&do grd &list %x1% %x2% t01_tra t02_trb t03_tva1 t04_tva ~
t05_avoid t06_elev t07_obx t08_hybuf1 t09_hybuf1 ~
t10_wvbuf1 t11_wvbuf2 t12_h2obuf1 t13_h2obuf ~
t14_soil t14_soilb t15_wtmask t15_h2obuf2 t16_land ~
t17_h2obuf3 t18_wtype1 t19_wtype2 t20_wtype3 ~
t21_wtype4 t23_soil1 t24_soil2 t25_soil3 ~
t26_soil4 t27_soil6 t28_soila t29_soil1a ~
t30_soil2a t31_soil3a t32_soil4a t33_soil5a ~
t34_soil5 t35_soil6a t36_wtf t37_wts t38_wtb ~
t36_wtf t37_wts t38_wtb t39_wt t40_bowf ~
t41_bowb t42_bows t43_bow1 t44_bow2 t45_bwvf ~
t46_bwvb t48_bwv1 t49_bwv2 t50_buf t51_tvb ~
%.DirTaxa%/d_%.ElCode% %.DirTaxa%/s1_%.ElCode%
&if [exists %grd% -grid] &then; kill %grd% all; &end
/*****
/* Restore the relates to the species range and habitat data files.
/* stored in RNG_HAB.REL
/*
/* Relate Name: RNG_AMPH
/* Table: rng_amph.fil
/* Database: info

```

```
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   RNG_AVN1
/* Table:        rng_avn1.fil
/* Database:     info
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   RNG_AVN2
/* Table:        rng_avn2.fil
/* Database:     info
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Continue? y
/* Relate Access: RO
/*
/* Relate Name:   RNG_AVN3
/* Table:        rng_avn3.fil
/* Database:     info
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   RNG_MAMM
/* Table:        rng_mamm.fil
/* Database:     info
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   RNG_REPT
/* Table:        rng_rept.fil
/* Database:     info
/* Item:          VALUE
/* Column:        hexid
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   HAB_AMPH
/* Table:        hab_amph.fil
/* Database:     info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:   HAB_AVN1
/* Table:        hab_avn1.fil
/* Database:     info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
```

```
/*
/* Relate Name:    HAB_AVN2
/* Table:         hab_avn2.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    HAB_AVN3
/* Table:         hab_avn3.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    HAB_MAMM
/* Table:         hab_mamm.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    HAB_REPT
/* Table:         hab_rept.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    XHB_AMPH
/* Table:         xhb_amph.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    XHB_AVN1
/* Table:         xhb_avn1.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    XHB_AVN2
/* Table:         xhb_avn2.fil
/* Database:      info
/* Item:          VALUE
/* Column:        mapunit
/* Relate Type:   ORDERED
/* Relate Access: RO
/*
/* Relate Name:    XHB_AVN3
/* Table:         xhb_avn3.fil
/* Database:      info
/* Item:          VALUE
```

```

/* Column:      mapunit
/* Relate Type: ORDERED
/* Relate Access: RO
/*
/* Relate Name:  XHB_MAMM
/* Table:       xhb_mamm.fil
/* Database:    info
/* Item:        VALUE
/* Column:      mapunit
/* Relate Type: ORDERED
/* Relate Access: RO
/*
/* Relate Name:  XHB_REPT
/* Table:       xhb_rept.fil
/* Database:    info
/* Item:        VALUE
/* Column:      mapunit
/* Relate Type: ORDERED
/* Relate Access: RO
/*
/* These relates are created by RELATE_SETUP.AML
/*****
/* Restore the soil relates to the species ancillary habitat data
/* files stored in DSOILS.REL
/*
/* RELATION      = DSOILS
/* TABLE-ID     = ds_3024mt.fil
/* DATABASE      = info
/* ITEM          = VALUE
/* COLUMN        = code
/* TYPE          = ORDERED
/* ACCESS        = RO
/* ASDBASE#      = 0
/* ASLCKID#      = 0
/* WHERE         =
/*
/* These relates are created by SOIL_CREATE_RELATE.AML
/*****
relate restore RNG_HAB.REL
relate restore DSOILS.REL

&ty
&ty Setting mask to area of interest (%.ModelMask%)...
setwindow %.ModelMask%
setmask off
setmask %.ModelMask%
&ty ****
&ty Creating temporary range grid A...
t01_tra = con(select%.range%, [quote rng_%.Taxa%/%.ElCode% = 1 OR ~
                        rng_%.Taxa%/%.ElCode% = 2 OR ~
                        rng_%.Taxa%/%.ElCode% = 3]) ~
                        > 0, 1)

&ty
&ty Creating temporary range grid B...
/* Calculate which basins include the range of the species.
/* Layer created from HUNC/huncode.
/* t02_trb_<elcode> will contain values > 0 for those zones (basins)
/* that overlap any part of an occupied hexagon.
t02_trb = con(zonalmax(%.huc14%, t01_tra) > 0, 1)

&ty ****

```

```

/* set mask to extended range of species
setmask off
setmask t02_trb

&if %Edge% = 0 and %IntFor% = 0 &then &do
  &ty
  &ty Not using Edge or Interior Forest Hardcore mask...
  &ty Creating temporary vegetation grid A...
  t04_tva = con(select(%VegMap%, ~
    [quote hab_%.Taxa%//%.ElCode% = 1]) > 0, 1)
&end

/* Creates a veg grid excluding habitats (xhb) from edge mask
&if %Edge% = 1 and %IntFor% = 0 &then &do
  &ty
  &ty Using Edge mask to create temporary vegetation grid A...
  t03_tva1 = %EdgeGrd%
  setmask off
  &s tmp_mask t03_tva1
  setmask %tmp_mask%
  t04_tva = con(select(%VegMap%, ~
    [quote xhb_%.Taxa%//%.ElCode% = 0]) > 0, 1)
&end
/* Creates a veg grid excluding habitats (xhb) from IntForest mask
&if %Edge% = 0 and %IntFor% = 1 &then &do
  &ty
  &ty Using Interior Forest mask to create temp. veg. grid A...
  t03_tva1 = %IntForGrd%
  setmask off
  &s tmp_mask t03_tva1
  setmask %tmp_mask%
  t04_tva = con(select(%VegMap%, ~
    [quote xhb_%.Taxa%//%.ElCode% = 0]) > 0, 1)
&end

&ty *****
&ty Applying ancillary data sets...
&s tmp_mask blank
/* *****
/* Setting WaterType
&if %WType% = 1 &then
  &do
    &if %Fresh% = 1 and %Brack% = 0 and %Salt% = 0 &then
      &do
        &sv type Fresh
        &ty Setting WaterType to Fresh
      &end
    &if %Fresh% = 1 and %Brack% = 1 and %Salt% = 0 &then
      &do
        &sv type Fresh/Brackish
        &ty Setting WaterType to Fresh/Brackish
      &end
    &if %Fresh% = 0 and %Brack% = 1 and %Salt% = 1 &then
      &do
        &sv type Brackish/Salt
        &ty Setting WaterType to Brackish/Salt
      &end
    &if %Fresh% = 0 and %Brack% = 1 and %Salt% = 0 &then
      &do
        &sv type Brackish

```

```

    &ty Setting WaterType to Brackish
  &end
  &if %Fresh% = 0 and %Brack% = 0 and %Salt% = 1 &then
    &do
      &sv type Salt
      &ty Setting WaterType to Salt
    &end
  &end
&end
/*****
/* Using WaterType to create masks
&if %WType% = 1 and %BuffOutWater% = 0 and ~
    %BuffWetVeg% = 0 &then

&do
  &ty Using %type% WaterType mask with no FROM buffers...
  &if %Fresh% = 1 &then
    t36_wtf = con(%WaterType% == 420, 1, 0)
  &if %Salt% = 1 &then
    t37_wts = con(%WaterType% == 216, 1, 0)
  &if %Brack% = 1 &then
    t38_wtb = con(%WaterType% == 116, 1, 0)
  &if %Fresh% = 0 &then
    t36_wtf = con(%ModelMask% >= 0, 0)
  &if %Salt% = 0 &then
    t37_wts = con(%ModelMask% >= 0, 0)
  &if %Brack% = 0 &then
    t38_wtb = con(%ModelMask% >= 0, 0)
  t39_wt = con(t36_wtf + t37_wts + t38_wtb > 0, 1)
  setmask off
  &s tmp_mask t39_wt
  setmask %tmp_mask%
&end
/*****
/* Using WaterType and FROM OW/WV buffers to create masks
&if %WType% = 1 and %BuffOutWater% + %BuffWetVeg% <> 0 &then
&do
  &if %BuffOutWater% <> 0 &then
    &do
      &ty Using %type% WaterType mask with %BuffOutWater%m FROM open water buffers...
      &if %Fresh% = 1 and %BuffOutWater% <> 0 &then
        t40_bowf = con(con(%WaterType% == 420, 1, 0) ~
          <= %BuffOutWater%, %OW_Fresh%, 0)
      &if %Brack% = 1 and %BuffOutWater% <> 0 &then
        t41_bowb = con(%OW_Brack% <= %BuffOutWater%, %OW_Brack%, 0)
      &if %Salt% = 1 and %BuffOutWater% <> 0 &then
        t42_bows = con(%OW_Salt% <= %BuffOutWater%, %OW_Salt%, 0)
      &if %Fresh% = 0 and %BuffOutWater% <> 0 &then
        t40_bowf = con(%ModelMask% >= 0, 0)
      &if %Brack% = 0 and %BuffOutWater% <> 0 &then
        t41_bowb = con(%ModelMask% >= 0, 0)
      &if %Salt% = 0 and %BuffOutWater% <> 0 &then
        t42_bows = con(%ModelMask% >= 0, 0)
      t43_bow1 = min(con(t40_bowf == 0, 9999, t40_bowf), ~
        con(t41_bowb == 0, 9999, t41_bowb), ~
        con(t42_bows == 0, 9999, t42_bows))
      t44_bow2 = con(t43_bow1 <= %BuffOutWater%, 1)
    &end
  &if %BuffWetVeg% <> 0 &then
    &do
      &ty Using %type% WaterType mask with %BuffWetVeg%m FROM wet vegetation buffers...
      &if %Fresh% = 1 and %BuffWetVeg% <> 0 &then
        t45_bwvf = con(con(%WaterType% == 420, 1, 0) ~

```



```

        <= %.BuffWetVeg%, %.WV_Fresh%, 0)
    &if %Brack% = 1 and %.BuffWetVeg% <> 0 &then
        t46_bwvb = con(%WV_BrkSalt% <= %.BuffWetVeg%, %.WV_BrkSalt%, 0)
    &if %Fresh% = 0 and %.BuffWetVeg% <> 0 &then
        t45_bwvf = con(%ModelMask% >= 0, 0)
    &if %Brack% = 0 and %.BuffWetVeg% <> 0 &then
        t46_bwvb = con(%ModelMask% >= 0, 0)
    t48_bwv1 = min(con(t45_bwvf == 0, 9999, t45_bwvf), ~
        con(t46_bwvb == 0, 9999, t46_bwvb))
    t49_bwv2 = con(t48_bwv1 <= %.BuffWetVeg%, 1)
&end
/* combining buffered grids
&if [exists t44_bow2 -grid] = .false. &then
    &do
        setmask off
        &sv tmp_mask t49_bwv2
        setmask %tmp_mask%
    &end
&if [exists t49_bwv2 -grid] = .false. &then
    &do
        setmask off
        &sv tmp_mask t44_bow2
        setmask %tmp_mask%
    &end
&if [exists t44_bow2 -grid] = .true. and ~
    [exists t49_bwv2 -grid] = .true. &then
    &do
        t50_buf = merge(t44_bow2, t49_bwv2)
        setmask off
        &sv tmp_mask t50_buf
        setmask %tmp_mask%
    &end
&end
/*****
/* Applies FROM water and FROM wetveg buffer when no WaterType
/* is identified
&if %WType% = 0 &then
    &do
        &ty Not using WaterType mask...
        &if %BuffOutWater% > 0 &then
            &do
                &if %BuffOutWater% = 1 &then
                    &do
                        &ty Using 1m FROM water buffer mask...
                        t08_hybuf1 = con(%HydroBuf% == 1, 1, 0)
                        t09_hybuf1 = con(isnull(t08_hybuf1), 0, t08_hybuf1)
                    &end
                &if %BuffOutWater% = 50 &then
                    &do
                        &ty Using 50m FROM water buffer mask...
                        t08_hybuf1 = con(%HydroBuf% == 51 or ~
                            %HydroBuf% == 1, 1, 0)
                        t09_hybuf1 = con(isnull(t08_hybuf1), 0, t08_hybuf1)
                    &end
                &if %BuffOutWater% = 200 &then
                    &do
                        &ty Using 200m FROM water buffer mask...
                        t08_hybuf1 = con(%HydroBuf% == 201 or ~
                            %HydroBuf% == 51 or ~
                            %HydroBuf% == 1, 1, 0)
                        t09_hybuf1 = con(isnull(t08_hybuf1), 0, t08_hybuf1)
                    &end
                &end
            &end
        &end
    &end

```

```

&end
&if %.BuffOutWater% = 500 &then
&do
&ty Using 500m FROM water buffer mask...
t08_hybuf1 = con(%HydroBuf% == 501 or ~
                %HydroBuf% == 201 or ~
                %HydroBuf% == 51 or ~
                %HydroBuf% == 1, 1, 0)
t09_hybuf1 = con(isnull(t08_hybuf1), 0, t08_hybuf1)
&end
&end
&if %.BuffOutWater% = 0 &then
&ty No FROM water buffers used...

&if %.BuffWetVeg% > 0 &then
&do
&if %.BuffWetVeg% = 50 &then
&do
&ty Using 50m FROM wet vegetation buffer mask...
t10_wvbuf1 = con(%WetVegBuf% == 50, 1, 0)
t11_wvbuf2 = con(isnull(t10_wvbuf1), 0, t10_wvbuf1)
&end
&if %.BuffWetVeg% = 200 &then
&do
&ty Using 200m FROM wet vegetation buffer mask...
t10_wvbuf1 = con(%WetVegBuf% == 200 or ~
                %WetVegBuf% == 50, 1, 0)
t11_wvbuf2 = con(isnull(t10_wvbuf1), 0, t10_wvbuf1)
&end
&if %.BuffWetVeg% = 500 &then
&do
&ty Using 500m FROM wet vegetation buffer mask...
t10_wvbuf1 = con(%WetVegBuf% == 500 or ~
                %WetVegBuf% == 200 or ~
                %WetVegBuf% == 50, 1, 0)
t11_wvbuf2 = con(isnull(t10_wvbuf1), 0, t10_wvbuf1)
&end
&end
&if %.BuffWetVeg% = 0 &then
&ty No FROM wet vegetation buffers used...

&if [exists t09_hybuf1 -grid] = .true. and ~
    [exists t11_wvbuf2 -grid] = .true. &then
&do
&ty Combining FROM open water and FROM wetveg buffers
&ty          and setting as tmp_mask...
t12_h2obuf1 = t09_hybuf1 + t11_wvbuf2
t13_h2obuf = con(t12_h2obuf1 > 0, 1)
setmask off
&s tmp_mask t13_h2obuf
setmask %tmp_mask%
&end
&if [exists t09_hybuf1 -grid] = .true. and ~
    [exists t11_wvbuf2 -grid] = .false. &then
&do
&ty Setting FROM open water buffer as the tmp_mask...
t13_h2obuf = con(t09_hybuf1 > 0, 1)
setmask off
&s tmp_mask t13_h2obuf
setmask %tmp_mask%
&end

```

```

&if [exists t09_hybuf1 -grid] = .false. and ~
  [exists t11_wvbuf2 -grid] = .true. &then
&do
  &ty Setting FROM wetveg buffer as the tmp_mask...
  t13_h2obuf = con(t11_wvbuf2 > 0, 1)
  setmask off
  &s tmp_mask t13_h2obuf
  setmask %tmp_mask%
&end
&end
/*****
/* Creating IN water buffers with or without WaterType mask
&if %.BuffInWater% = 0 &then
  &ty No IN water buffers used...

&if %.BuffInWater% <> 0 &then
&do
  &if %.WType% = 0 &then
  &do
    &sv type All
    setmask off
    t15_wtmask = %.ModelMask%
    &sv tmp_mask2 t15_wtmask
  &end
  &if %.WType% = 1 &then
  &do
    &if %.Fresh% = 1 and %.Brack% = 0 and %.Salt% = 0 &then
    &do
      setmask off
      t15_wtmask = con(%WaterType% == 420, 1)
      &sv tmp_mask2 t15_wtmask
    &end
    &if %.Fresh% = 1 and %.Brack% = 1 and %.Salt% = 0 &then
    &do
      setmask off
      t15_wtmask = con(%WaterType% == 420 or ~
        %WaterType% == 116, 1)
      &sv tmp_mask2 t15_wtmask
    &end
    &if %.Fresh% = 0 and %.Brack% = 1 and %.Salt% = 1 &then
    &do
      setmask off
      t15_wtmask = con(%WaterType% == 116 or ~
        %WaterType% == 216, 1)
      &sv tmp_mask2 t15_wtmask
    &end
    &if %.Fresh% = 0 and %.Brack% = 1 and %.Salt% = 0 &then
    &do
      setmask off
      t15_wtmask = con(%WaterType% == 116, 1)
      &sv tmp_mask2 t15_wtmask
    &end
    &if %.Fresh% = 0 and %.Brack% = 0 and %.Salt% = 1 &then
    &do
      setmask off
      t15_wtmask = con(%WaterType% == 216, 1)
      &sv tmp_mask2 t15_wtmask
    &end
  &end
&end

&if %.BuffInWater% = 50 &then

```

```

&do
  &ty Using %type% WaterType mask with 50m IN water buffer...
  setmask off
  setmask %tmp_mask2%
  t15_h2obuf2 = con(%HydroBuf% == 52, 1)
  &if [exists %tmp_mask% -grid] = .true. &then
    &do
      &ty tmp_mask exists...
      setmask off
      setmask %NonWater%
      t16_land = %tmp_mask%
      setmask off
      setmask %ModelMask%
      t17_h2obuf3 = merge(t16_land, t15_h2obuf2)
      setmask off
      &s tmp_mask t17_h2obuf3
      setmask %tmp_mask%
    &end
  &if [exists %tmp_mask% -grid] = .false. &then
    &do
      setmask off
      &ty creating tmp_mask...
      t17_h2obuf3 = merge(%NonWater%, t15_h2obuf2)
      setmask off
      &s tmp_mask t17_h2obuf3
      setmask %tmp_mask%
    &end
  &end
&if %BuffInWater% = 200 &then
  &do
    &ty Using %type% WaterType mask with 200m IN water buffer...
    setmask off
    setmask %tmp_mask2%
    t15_h2obuf2 = con(%HydroBuf% == 202 or ~
      %HydroBuf% == 52, 1)
    &if [exists %tmp_mask% -grid] = .true. &then
      &do
        &ty tmp_mask exists...
        setmask off
        setmask %NonWater%
        t16_land = %tmp_mask%
        setmask off
        setmask %ModelMask%
        t17_h2obuf3 = merge(t16_land, t15_h2obuf2)
        setmask off
        &s tmp_mask t17_h2obuf3
        setmask %tmp_mask%
      &end
    &if [exists %tmp_mask% -grid] = .false. &then
      &do
        setmask off
        &ty creating tmp_mask...
        t17_h2obuf3 = merge(%NonWater%, t15_h2obuf2)
        setmask off
        &s tmp_mask t17_h2obuf3
        setmask %tmp_mask%
      &end
    &end
  &end
&if %BuffInWater% = 500 &then
  &do
    &ty Using %type% WaterType mask with 500m IN water buffer...

```

```

setmask off
setmask %tmp_mask2%
t15_h2obuf2 = con(%HydroBuf% == 502 or ~
                %HydroBuf% == 202 or ~
                %HydroBuf% == 52, 1)
&if [exists %tmp_mask% -grid] = .true. &then
&do
  &ty tmp_mask exists...
  setmask off
  setmask %NonWater%
  t16_land = %tmp_mask%
  setmask off
  setmask %ModelMask%
  t17_h2obuf3 = merge(t16_land, t15_h2obuf2)
  setmask off
  &s tmp_mask t17_h2obuf3
  setmask %tmp_mask%
&end
&if [exists %tmp_mask% -grid] = .false. &then
&do
  setmask off
  &ty creating tmp_mask...
  t17_h2obuf3 = merge(%NonWater%, t15_h2obuf2)
  setmask off
  &s tmp_mask t17_h2obuf3
  setmask %tmp_mask%
&end
&end
&if %BuffInWater% = 5000 &then
&do
  &ty Using %type% WaterType mask with 5000m IN water buffer...
  setmask off
  setmask %tmp_mask2%
  t15_h2obuf2 = con(%HydroBuf% == 5002 or ~
                  %HydroBuf% == 502 or ~
                  %HydroBuf% == 202 or ~
                  %HydroBuf% == 52, 1)
  &if [exists %tmp_mask% -grid] = .true. &then
  &do
    &ty tmp_mask exists...
    setmask off
    setmask %NonWater%
    t16_land = %tmp_mask%
    setmask off
    setmask %ModelMask%
    t17_h2obuf3 = merge(t16_land, t15_h2obuf2)
    setmask off
    &s tmp_mask t17_h2obuf3
    setmask %tmp_mask%
  &end
  &if [exists %tmp_mask% -grid] = .false. &then
  &do
    setmask off
    &ty creating tmp_mask...
    t17_h2obuf3 = merge(%NonWater%, t15_h2obuf2)
    setmask off
    &s tmp_mask t17_h2obuf3
    setmask %tmp_mask%
  &end
&end
&end
&if %BuffInWater% = 9999 &then

```

```

&do
  &ty Using %type% WaterType mask with unlimited IN water buffer...
  setmask off
  setmask %tmp_mask2%
  t15_h2obuf2 = con(%HydroBuf% == 9999 or ~
    %HydroBuf% == 5002 or ~
    %HydroBuf% == 502 or ~
    %HydroBuf% == 202 or ~
    %HydroBuf% == 52, 1)
  &if [exists %tmp_mask% -grid] = .true. &then
    &do
      &ty tmp_mask exists...
      setmask off
      setmask %NonWater%
      t16_land = %tmp_mask%
      setmask off
      setmask %ModelMask%
      t17_h2obuf3 = merge(t16_land, t15_h2obuf2)
      setmask off
      &s tmp_mask t17_h2obuf3
      setmask %tmp_mask%
    &end
  &if [exists %tmp_mask% -grid] = .false. &then
    &do
      setmask off
      &ty creating tmp_mask...
      t17_h2obuf3 = merge(%NonWater%, t15_h2obuf2)
      setmask off
      &s tmp_mask t17_h2obuf3
      setmask %tmp_mask%
    &end
  &end
&end
/*****
&if %Avoid% = 1 &then &do
  &ty Using Avoid mask...
  t05_avoid = %AvoidGrd%
  setmask off
  &s tmp_mask t05_avoid
  setmask %tmp_mask%
&end
&if %Avoid% = 0 &then &do
  &ty Not using Avoid mask...
&end
/*****
&if %Elev% = 1 &then &do
  &ty Using Elevation mask...
  t06_elev = con(%ElevGrd% > %ElevMin% and ~
    %ElevGrd% < %ElevMax%, 1)
  setmask off
  &s tmp_mask t06_elev
  setmask %tmp_mask%
&end
&if %Elev% = 0 &then &do
  &ty Not using Elevation mask...
&end
/*****
&if %OBX% = 1 &then &do
  &ty Using OBX include only mask...
  t07_obx = %OBX_On%
  setmask off

```

```

        &s tmp_mask t07_obx
        setmask %tmp_mask%
    &end
    &if %.OBX% = 2 &then &do
        &ty Using OBX exclude mask...
        t07_obx = %.OBX_Off%
        setmask off
        &s tmp_mask t07_obx
        setmask %tmp_mask%
    &end
    &if %.OBX% = 0 &then &do
        &ty Not using OBX mask...
    &end
    /******
    &ty Do not use DSoils, it doesn't add any information.
    &ty Ancillary data for all 414 Spp. avoid the used of DSoil data.
    &if %.DSoils% = 0 &then
        &ty Outside detailed soils range...

    &if %.DSoils% = 1 &then
        &do
            &ty Within detailed soils range...
            &if %.SoilMesic% = 1 &then
                &do
                    &ty Using mesic soil mask...
                    t29_soil1a = con(select(%DSoilGrd%, ~
                        [quote dsoils//MesicYN cn 'yes']) > 0, 1)
                    t23_soil1 = con(isnull(t29_soil1a), 0, t29_soil1a)
                &end

            &if %.SoilSand% = 1 &then
                &do
                    &ty Using sand soil mask...
                    t30_soil2a = con(select(%DSoilGrd%, ~
                        [quote dsoils//SandsYN cn 'yes']) > 0, 1)
                    t24_soil2 = con(isnull(t30_soil2a), 0, t30_soil2a)
                &end

            &if %.SoilLoam% = 1 &then
                &do
                    &ty Using loam soil mask...
                    t31_soil3a = con(select(%DSoilGrd%, ~
                        [quote dsoils//LoamsYN cn 'yes']) > 0, 1)
                    t25_soil3 = con(isnull(t31_soil3a), 0, t31_soil3a)
                &end

            /* CLAY SOILS NOT USED IN MODELING

            &if %.SoilHydric% = 1 &then
                &do
                    &ty Using hydric soil mask...
                    t33_soil5a = con(select(%DSoilGrd%, ~
                        [quote dsoils//HydricYN cn 'yes']) > 0, 1)
                    t34_soil5 = con(isnull(t33_soil5a), 0, t33_soil5a)
                &end

            &if %.SoilXeric% = 1 &then
                &do
                    &ty Using xeric soil mask...
                    t35_soil6a = con(select(%DSoilGrd%, ~
                        [quote dsoils//XericYN cn 'yes']) > 0, 1)

```

```
t27_soil6 = con(isnull(t35_soil6a), 0, t35_soil6a)
&end
```

```
/* summing and setting soil mask
&if [exists t23_soil1 -grid] = .false. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .false. ~
&then &ty No appropriate soils within range...
```

```
&if [exists t23_soil1 -grid] = .false. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .true. ~
&then rename t27_soil6 t28_soila
```

```
&if [exists t23_soil1 -grid] = .true. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .false. ~
&then rename t23_soil1 t28_soila
```

```
&if [exists t23_soil1 -grid] = .false. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .true. and ~
    [exists t27_soil6 -grid] = .false. ~
&then rename t34_soil5 t28_soila
```

```
&if [exists t23_soil1 -grid] = .true. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .true. and ~
    [exists t27_soil6 -grid] = .false. ~
&then t28_soila = t23_soil1 + t34_soil5
```

```
&if [exists t23_soil1 -grid] = .true. and ~
    [exists t24_soil2 -grid] = .false. and ~
    [exists t25_soil3 -grid] = .true. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .false. ~
&then t28_soila = t23_soil1 + t25_soil3
```

```
&if [exists t23_soil1 -grid] = .false. and ~
    [exists t24_soil2 -grid] = .true. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .false. ~
&then rename t24_soil2 t28_soila
```

```
&if [exists t23_soil1 -grid] = .false. and ~
    [exists t24_soil2 -grid] = .true. and ~
    [exists t25_soil3 -grid] = .false. and ~
    [exists t34_soil5 -grid] = .false. and ~
    [exists t27_soil6 -grid] = .true. ~
&then t28_soila = t24_soil2 + t27_soil6
```

```
&if [exists t23_soil1 -grid] = .true. and ~
```



```

[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .false. and ~
[exists t34_soil5 -grid] = .false. and ~
[exists t27_soil6 -grid] = .true. ~
&then t28_soila = t23_soil1 + t24_soil2 + t27_soil6

&if [exists t23_soil1 -grid] = .true. and ~
[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .false. and ~
[exists t34_soil5 -grid] = .true. and ~
[exists t27_soil6 -grid] = .false. ~
&then t28_soila = t23_soil1 + t24_soil2 + t34_soil5

&if [exists t23_soil1 -grid] = .false. and ~
[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .true. and ~
[exists t34_soil5 -grid] = .false. and ~
[exists t27_soil6 -grid] = .false. ~
&then t28_soila = t24_soil2 + t25_soil3

&if [exists t23_soil1 -grid] = .false. and ~
[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .true. and ~
[exists t34_soil5 -grid] = .false. and ~
[exists t27_soil6 -grid] = .true. ~
&then t28_soila = t24_soil2 + t25_soil3 + t27_soil6

&if [exists t23_soil1 -grid] = .true. and ~
[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .true. and ~
[exists t34_soil5 -grid] = .false. and ~
[exists t27_soil6 -grid] = .false. ~
&then t28_soila = t23_soil1 + t24_soil2 + t25_soil3

&if [exists t23_soil1 -grid] = .true. and ~
[exists t24_soil2 -grid] = .true. and ~
[exists t25_soil3 -grid] = .true. and ~
[exists t34_soil5 -grid] = .true. and ~
[exists t27_soil6 -grid] = .false. ~
&then t28_soila = t23_soil1 + t24_soil2 + t25_soil3 + ~
t34_soil5 + t27_soil6

&if [exists t28_soila -grid] = .true. &then
&do
&ty Creating final soils mask...
t14_soil = con(t28_soila > 0, 1)
setmask off
&s tmp_mask t14_soil /*b
setmask %tmp_mask%
&end
&end
&ty *****
&ty Creating temporary vegetation grid B...
/* identify contiguous habitat with known range
t51_tvb = regiongroup(t04_tva, #, eight, #, #, nolink)

&ty *****
&ty Creating distribution grid d_%.ElCode%...
/* Select appropriate vegetation through habitat relate
/* throughout the species range set by the mask(s)
%.DirTaxa%/d_%.ElCode% = con(zonalmax(t51_tvb, t01_tra) > 0, ~

```

%.VegMap%)

```
&ty *****
&ty Creating solid distribution grid s1_%.ElCode% (0/1)...
/* create solid grid of distribution (i.e. 0/1 instead of null/1)
arc w %.DirTaxa%
setmask off
setmask %.ModelMask%
s1_%.ElCode% = con(isnull(d_%.ElCode%), 0, d_%.ElCode%)

&ty *****
&ty Adding items to d_%.ElCode%.vat...
/* add items to elcode.VAT for vegcodes, habitat use and dist.
arc additem d_%.ElCode%.vat d_%.ElCode%.vat vegcode, 4, 4, i
arc additem d_%.ElCode%.vat d_%.ElCode%.vat dist, 1, 1, i
arc TABLES
  sel d_%.ElCode%.vat
  &ty; &ty Calculating vegcode, and dist values for d_%.ElCode%...
  calc vegcode = value
  calc dist = 1
  QUIT

&ty *****
&ty Removing previous outputs and temp files...
arc w %.DirWS%
&sv x1 = [listfile 'X*' -grid]
&sv x2 = [listfile [quote output/%.taxa2%/X*] -grid]
&do grd &list %x1% %x2%
  &if [exists %grd% -grid] &then; kill %grd% all; &end

&if %.choice% = delete &then
  &do
    &do grd &list t01_tra t02_trb t03_tva1 t04_tva t05_avoid ~
      t06_elev t07_obx t08_hybuf1 t09_hybuf1 ~
      t10_wvbuf1 t11_wvbuf2 t12_h2obuf1 t13_h2obuf ~
      t14_soil t14_soilb t15_wtmask t15_h2obuf2 t16_land ~
      t17_h2obuf3 t18_wtype1 t19_wtype2 t20_wtype3 ~
      t21_wtype4 t23_soil1 t24_soil2 t25_soil3 ~
      t26_soil4 t27_soil6 t28_soila t29_soil1a ~
      t30_soil2a t31_soil3a t32_soil4a t33_soil5a ~
      t34_soil5 t35_soil6a t36_wtf t37_wts t38_wtb ~
      t36_wtf t37_wts t38_wtb t39_wt t40_bowf ~
      t41_bowb t42_bows t43_bow1 t44_bow2 t45_bwvf ~
      t46_bwvb t48_bwv1 t49_bwv2 t50_buf t51_tvb
    &if [exists %grd% -grid] &then; kill %grd% all
  &end
&end
&else; &do; &ty Keeping temporary grids; &end
&ty Finished with %.ElCode%
&return
```

```
/*#####  
/* SOIL_CREATE_RELATE.AML  
/*  
/* Run this prior to any other aml in order to set up the  
/* necessary relate table.  
/*  
/* This aml converts CSV file of detailed soil attributes into  
/* an info file that can be related to from grids.  
/* numcode is the relate item - created in JMP.  
/*  
/*  
/* Steve Williams 10/18/01  
/*#####
```

```
/* Remove previous files  
&do fil &list ds_3024mt.fil soil.rel  
&if [exists %fil% -info] &then  
  &s status = [delete %fil% -info]  
&end
```

tables

```
define ds_3024mt.fil  
code, 2, 4, b  
numcode, 4, 9, b  
alphcode, 11, 11, c  
soilsymb#, 2, 3, b  
soilsymb, 5, 5, c  
soilname, 30, 30, c  
ssaid, 5, 5, c  
musym, 6, 6, c  
musym#, 2, 3, b  
muname, 100, 100, c  
mukind, 3, 3, c  
mlra, 4, 4, c  
primfml, 3, 3, c  
muacres, 4, 6, b  
condition, 3, 3, c  
landfmlo, 3, 3, c  
state, 2, 2, c  
compct, 2, 3, b  
surftex, 7, 7, c  
hydrp, 3, 3, c  
hydric, 3, 3, c  
LoamsYN, 3, 3, c  
MesicYN, 3, 3, c  
SandsYN, 3, 3, c  
XericYN, 3, 3, c  
HydricYN, 3, 3, c
```

~

&ty

&ty Adding data from csv file...

add from ds3024mt.csv

sort code

&ty

&ty Finished with ds_3024mt.fil

quit

relate add

```
dsoils
ds_3024mt.fil
info
value
code
ORDERED
ro
~
relate save dsoils.rel
```

```
&ty
&ty DSOIL_CREATE_RELATE.AML has finished creating the DSOILS.REL
&ty
```

```
&return
```

```

/*#####
/* RELATE_SETUP.AML
/* creates range and habitat (rng_xxx.fil, hab_xxx.fil, xhb_xxx.fil)
/* info files and creates the relates that A/I uses to get at species
/* known ranges and habitat use. The relate is saved in RNG_HAB.REL
/*
/*
/* sgw 19jun02
/*#####
&do fil &list rng_amph.fil rng_avn1.fil rng_avn2.fil ~
      rng_avn3.fil rng_mamm.fil rng_rept.fil ~
      hab_amph.fil hab_avn1.fil hab_avn2.fil ~
      hab_avn3.fil hab_mamm.fil hab_rept.fil ~
      xhb_amph.fil xhb_avn1.fil xhb_avn2.fil ~
      xhb_avn3.fil xhb_mamm.fil xhb_rept.fil ~
      rng_hab.rel
&if [exists %fil% -info] &then
&s status = [delete %fil% -info]
&end

tables

define rng_amph.fil /* SET UP FOR NC
hexid, 2, 4, b
Aaaaa01070, 1, 1, i
Aaaaa01090, 1, 1, i
Aaaaa01100, 1, 1, i
Aaaaa01120, 1, 1, i
Aaaaa01140, 1, 1, i
Aaaab01010, 1, 1, i
Aaaac01010, 1, 1, i
Aaaad01010, 1, 1, i
Aaaad03010, 1, 1, i
Aaaad03020, 1, 1, i
Aaaad03040, 1, 1, i
Aaaad03050, 1, 1, i
Aaaad03060, 1, 1, i
Aaaad03080, 1, 1, i
Aaaad03100, 1, 1, i
Aaaad03110, 1, 1, i
Aaaad03130, 1, 1, i
Aaaad03140, 1, 1, i
Aaaad03150, 1, 1, i
Aaaad05020, 1, 1, i
Aaaad05040, 1, 1, i
Aaaad05090, 1, 1, i
Aaaad05140, 1, 1, i
Aaaad05150, 1, 1, i
Aaaad05290, 1, 1, i
Aaaad06020, 1, 1, i
Aaaad08010, 1, 1, i
Aaaad10010, 1, 1, i
Aaaad12020, 1, 1, i
Aaaad12070, 1, 1, i
Aaaad12090, 1, 1, i
Aaaad12150, 1, 1, i
Aaaad12160, 1, 1, i
Aaaad12220, 1, 1, i
Aaaad12230, 1, 1, i
Aaaad12240, 1, 1, i
Aaaad12250, 1, 1, i

```

Aaad12300, 1, 1, i
Aaad12370, 1, 1, i
Aaad13010, 1, 1, i
Aaad13020, 1, 1, i
Aaad14010, 1, 1, i
Aaaae01030, 1, 1, i
Aaaae01040, 1, 1, i
Aaaae01050, 1, 1, i
Aaaaf01030, 1, 1, i
Aaaag02010, 1, 1, i
Aaaag02020, 1, 1, i
Aaabb01020, 1, 1, i
Aaabb01130, 1, 1, i
Aaabb01160, 1, 1, i
Aaabb01210, 1, 1, i
Aaabc01010, 1, 1, i
Aaabc01020, 1, 1, i
Aaabc02010, 1, 1, i
Aaabc02050, 1, 1, i
Aaabc02060, 1, 1, i
Aaabc02090, 1, 1, i
Aaabc02100, 1, 1, i
Aaabc02120, 1, 1, i
Aaabc02130, 1, 1, i
Aaabc05020, 1, 1, i
Aaabc05040, 1, 1, i
Aaabc05050, 1, 1, i
Aaabc05070, 1, 1, i
Aaabc05090, 1, 1, i
Aaabc05110, 1, 1, i
Aaabe01010, 1, 1, i
Aaabf01040, 1, 1, i
Aaabh01070, 1, 1, i
Aaabh01090, 1, 1, i
Aaabh01160, 1, 1, i
Aaabh01200, 1, 1, i
Aaabh01220, 1, 1, i
Aaabh01230, 1, 1, i
Aaabh01270, 1, 1, i

~

&ty

&ty Adding data from rng_amph.csv...

add from rng_amph.csv

sort hexid

&ty

&ty Finished with rng_amph.fil

define rng_avn1.fil

hexid, 2, 4, b

Abnca02010, 1, 1, i

Abnfc01020, 1, 1, i

Abnfd01020, 1, 1, i

Abnfe01010, 1, 1, i

Abnga01020, 1, 1, i

Abnga02010, 1, 1, i

Abnga04010, 1, 1, i

Abnga04040, 1, 1, i

Abnga06030, 1, 1, i

Abnga06040, 1, 1, i

Abnga06050, 1, 1, i

Abnga07010, 1, 1, i

Abnga08010, 1, 1, i
Abnga11010, 1, 1, i
Abnga13010, 1, 1, i
Abnge01010, 1, 1, i
Abnge02010, 1, 1, i
Abnjb05030, 1, 1, i
Abnjb09010, 1, 1, i
Abnjb10040, 1, 1, i
Abnjb10060, 1, 1, i
Abnjb10130, 1, 1, i
Abnjb10160, 1, 1, i
Abnjb20010, 1, 1, i
Abnka01010, 1, 1, i
Abnka02010, 1, 1, i
Abnkc01010, 1, 1, i
Abnkc09010, 1, 1, i
Abnkc10010, 1, 1, i
Abnkc11010, 1, 1, i
Abnkc12020, 1, 1, i
Abnkc12040, 1, 1, i
Abnkc19030, 1, 1, i
Abnkc19050, 1, 1, i
Abnkc19110, 1, 1, i
Abnkd06020, 1, 1, i
Abnkd06070, 1, 1, i
Abnlc07010, 1, 1, i
Abnlc11010, 1, 1, i
Abnlc14010, 1, 1, i
Abnlc21020, 1, 1, i
Abnme03040, 1, 1, i
Abnme05010, 1, 1, i
Abnme05020, 1, 1, i
Abnme05030, 1, 1, i
Abnme13010, 1, 1, i
Abnme14020, 1, 1, i
Abnnb03040, 1, 1, i
Abnnb03070, 1, 1, i
Abnnb03090, 1, 1, i
Abnnc01010, 1, 1, i
Abnnd01010, 1, 1, i
Abnnf02010, 1, 1, i
Abnnf19020, 1, 1, i
Abnnm03010, 1, 1, i
Abnnm03120, 1, 1, i
Abnnm03210, 1, 1, i
Abnnm08010, 1, 1, i
Abnnm08020, 1, 1, i
Abnnm08030, 1, 1, i
Abnnm08050, 1, 1, i
Abnnm08070, 1, 1, i
Abnnm08090, 1, 1, i
Abnnm08100, 1, 1, i
Abnnm08150, 1, 1, i
Abnnm14010, 1, 1, i

~

&ty
&ty Adding data from rng_avn1.csv...
add from rng_avn1.csv
sort hexid
&ty
&ty Finished with rng_avn1.fil

```
define rng_avn2.fil
hexid, 2, 4, b
Abnpb01010, 1, 1, i
Abnpb04040, 1, 1, i
Abnrb02010, 1, 1, i
Abnrb02020, 1, 1, i
Abnsa01010, 1, 1, i
Abnsb01030, 1, 1, i
Abnsb05010, 1, 1, i
Abnsb12020, 1, 1, i
Abnsb15020, 1, 1, i
Abnta02020, 1, 1, i
Abnta07010, 1, 1, i
Abnta07070, 1, 1, i
Abnua03010, 1, 1, i
Abnuc45010, 1, 1, i
Abnxd01020, 1, 1, i
Abnyf04040, 1, 1, i
Abnyf04170, 1, 1, i
Abnyf05010, 1, 1, i
Abnyf07030, 1, 1, i
Abnyf07040, 1, 1, i
Abnyf07060, 1, 1, i
Abnyf10020, 1, 1, i
Abnyf12020, 1, 1, i
Abpae32060, 1, 1, i
Abpae33020, 1, 1, i
Abpae33030, 1, 1, i
Abpae33040, 1, 1, i
Abpae33070, 1, 1, i
Abpae35020, 1, 1, i
Abpae43070, 1, 1, i
Abpae52060, 1, 1, i
Abpat02010, 1, 1, i
Abpau01010, 1, 1, i
Abpau03010, 1, 1, i
Abpau07010, 1, 1, i
Abpau09010, 1, 1, i
Abpau09030, 1, 1, i
Abpav02020, 1, 1, i
Abpav10010, 1, 1, i
Abpav10080, 1, 1, i
Abpav10110, 1, 1, i
Abpaw01010, 1, 1, i
Abpaw01020, 1, 1, i
Abpaw01110, 1, 1, i
Abpaz01010, 1, 1, i
Abpaz01020, 1, 1, i
Abpaz01040, 1, 1, i
Abpba01010, 1, 1, i
Abpbg06130, 1, 1, i
Abpbg09010, 1, 1, i
Abpbg09050, 1, 1, i
Abpbg10020, 1, 1, i
Abpbj05010, 1, 1, i
Abpbj08010, 1, 1, i
Abpbj15010, 1, 1, i
Abpbj18080, 1, 1, i
Abpbj18110, 1, 1, i
Abpbj19010, 1, 1, i
```


Abpbj20170, 1, 1, i
Abpbk01010, 1, 1, i
Abpbk03010, 1, 1, i
Abpbk06010, 1, 1, i
Abpbn01020, 1, 1, i
Abpbr01030, 1, 1, i
Abpbt01010, 1, 1, i
Abpbw01020, 1, 1, i
Abpbw01160, 1, 1, i
Abpbw01170, 1, 1, i
Abpbw01210, 1, 1, i
Abpbw01240, 1, 1, i

~

&ty

&ty Adding data from rng_avn2.csv...

add from rng_avn2.csv

sort hexid

&ty

&ty Finished with rng_avn2.fil

define rng_avn3.fil

hexid, 2, 4, b

Abpbx01020, 1, 1, i
Abpbx01030, 1, 1, i
Abpbx02010, 1, 1, i
Abpbx03010, 1, 1, i
Abpbx03020, 1, 1, i
Abpbx03050, 1, 1, i
Abpbx03100, 1, 1, i
Abpbx03120, 1, 1, i
Abpbx03130, 1, 1, i
Abpbx03170, 1, 1, i
Abpbx03190, 1, 1, i
Abpbx03240, 1, 1, i
Abpbx05010, 1, 1, i
Abpbx06010, 1, 1, i
Abpbx07010, 1, 1, i
Abpbx08010, 1, 1, i
Abpbx09010, 1, 1, i
Abpbx10010, 1, 1, i
Abpbx10030, 1, 1, i
Abpbx11010, 1, 1, i
Abpbx12010, 1, 1, i
Abpbx16010, 1, 1, i
Abpbx16030, 1, 1, i
Abpbx24010, 1, 1, i
Abpbx45030, 1, 1, i
Abpbx45040, 1, 1, i
Abpbx60010, 1, 1, i
Abpbx61030, 1, 1, i
Abpbx63010, 1, 1, i
Abpbx64030, 1, 1, i
Abpbx64060, 1, 1, i
Abpbx65010, 1, 1, i
Abpbx74030, 1, 1, i
Abpbx91050, 1, 1, i
Abpbx94020, 1, 1, i
Abpbx94050, 1, 1, i
Abpbx95010, 1, 1, i
Abpbx96010, 1, 1, i
Abpbx99010, 1, 1, i

```
Abpbxa0020, 1, 1, i
Abpbxa0030, 1, 1, i
Abpbxa0060, 1, 1, i
Abpbxa3010, 1, 1, i
Abpbxa5020, 1, 1, i
Abpbxa9010, 1, 1, i
Abpbxb0010, 1, 1, i
Abpbxb2020, 1, 1, i
Abpbxb6060, 1, 1, i
Abpbxb6070, 1, 1, i
Abpbxb7030, 1, 1, i
Abpbxb9070, 1, 1, i
Abpbxb9190, 1, 1, i
Abpby04040, 1, 1, i
Abpby05010, 1, 1, i
Abpby06030, 1, 1, i
Abpby06110, 1, 1, i
Abpbz01010, 1, 1, i
~
&ty
&ty Adding data from rng_avn3.csv...
add from rng_avn3.csv
sort hexid
&ty
&ty Finished with rng_avn3.fil
```

```
define rng_mamm.fil
hexid, 2, 4, b
Amaaa01010, 1, 1, i
Amaba01010, 1, 1, i
Amaba01060, 1, 1, i
Amaba01150, 1, 1, i
Amaba01180, 1, 1, i
Amaba01210, 1, 1, i
Amaba01250, 1, 1, i
Amaba03010, 1, 1, i
Amaba03020, 1, 1, i
Amaba04010, 1, 1, i
Amabb03010, 1, 1, i
Amabb04010, 1, 1, i
Amabb05010, 1, 1, i
Amacc01010, 1, 1, i
Amacc01030, 1, 1, i
Amacc01100, 1, 1, i
Amacc01130, 1, 1, i
Amacc01150, 1, 1, i
Amacc03020, 1, 1, i
Amacc04010, 1, 1, i
Amacc05010, 1, 1, i
Amacc05020, 1, 1, i
Amacc06010, 1, 1, i
Amacc08010, 1, 1, i
Amacc08020, 1, 1, i
Amacd01010, 1, 1, i
Amaeb01030, 1, 1, i
Amaeb01040, 1, 1, i
Amaeb01090, 1, 1, i
Amafb02230, 1, 1, i
Amafb03010, 1, 1, i
Amafb07010, 1, 1, i
Amafb07040, 1, 1, i
```

Amafb08010, 1, 1, i
Amafb09010, 1, 1, i
Amafb09020, 1, 1, i
Amafe01010, 1, 1, i
Amaff01010, 1, 1, i
Amaff02020, 1, 1, i
Amaff03040, 1, 1, i
Amaff03060, 1, 1, i
Amaff03070, 1, 1, i
Amaff03080, 1, 1, i
Amaff04010, 1, 1, i
Amaff07010, 1, 1, i
Amaff08010, 1, 1, i
Amaff08100, 1, 1, i
Amaff09020, 1, 1, i
Amaff11010, 1, 1, i
Amaff11090, 1, 1, i
Amaff11150, 1, 1, i
Amaff15010, 1, 1, i
Amaff17010, 1, 1, i
Amaff21010, 1, 1, i
Amaff21020, 1, 1, i
Amaff22010, 1, 1, i
Amafh01010, 1, 1, i
Amafh02010, 1, 1, i
Amafk01010, 1, 1, i
Amaja01010, 1, 1, i
Amaja01020, 1, 1, i
Amaja03010, 1, 1, i
Amaja04010, 1, 1, i
Amajb01010, 1, 1, i
Amaje02010, 1, 1, i
Amajf02020, 1, 1, i
Amajf02030, 1, 1, i
Amajf02050, 1, 1, i
Amajf05010, 1, 1, i
Amajf06010, 1, 1, i
Amajf08010, 1, 1, i
Amajh03020, 1, 1, i
Amala01010, 1, 1, i
Amalc02020, 1, 1, i
Amata01010, 1, 1, i

~

&ty

&ty Adding data from rng_mamm.csv...

add from rng_mamm.csv

sort hexid

&ty

&ty Finished with rng_mamm.fil

define rng_rept.fil

hexid, 2, 4, b

Araaa01010, 1, 1, i

Araaa02010, 1, 1, i

Araaa04010, 1, 1, i

Araab01010, 1, 1, i

Araac01010, 1, 1, i

Araad01010, 1, 1, i

Araad02010, 1, 1, i

Araad02040, 1, 1, i

Araad03010, 1, 1, i

Araad06010, 1, 1, i
Araad07020, 1, 1, i
Araad07030, 1, 1, i
Araad07050, 1, 1, i
Araad08010, 1, 1, i
Araad09010, 1, 1, i
Araae01010, 1, 1, i
Araae01050, 1, 1, i
Araae02030, 1, 1, i
Araae02040, 1, 1, i
Araag01030, 1, 1, i
Araba01010, 1, 1, i
Aracb02010, 1, 1, i
Aracb02030, 1, 1, i
Aracb02040, 1, 1, i
Aracf01010, 1, 1, i
Aracf12010, 1, 1, i
Aracf14130, 1, 1, i
Arach01010, 1, 1, i
Arach01050, 1, 1, i
Arach01070, 1, 1, i
Arach01080, 1, 1, i
Arach03010, 1, 1, i
Aracj02110, 1, 1, i
Aradb02010, 1, 1, i
Aradb03010, 1, 1, i
Aradb07010, 1, 1, i
Aradb10010, 1, 1, i
Aradb13020, 1, 1, i
Aradb13030, 1, 1, i
Aradb14010, 1, 1, i
Aradb14020, 1, 1, i
Aradb17020, 1, 1, i
Aradb17030, 1, 1, i
Aradb19010, 1, 1, i
Aradb19020, 1, 1, i
Aradb19050, 1, 1, i
Aradb21020, 1, 1, i
Aradb22020, 1, 1, i
Aradb22030, 1, 1, i
Aradb22060, 1, 1, i
Aradb22070, 1, 1, i
Aradb23010, 1, 1, i
Aradb26010, 1, 1, i
Aradb27030, 1, 1, i
Aradb27040, 1, 1, i
Aradb28010, 1, 1, i
Aradb31010, 1, 1, i
Aradb34010, 1, 1, i
Aradb34030, 1, 1, i
Aradb35020, 1, 1, i
Aradb36120, 1, 1, i
Aradb36130, 1, 1, i
Aradb39010, 1, 1, i
Aradb39020, 1, 1, i
Aradc02010, 1, 1, i
Arade01010, 1, 1, i
Arade01020, 1, 1, i
Arade02010, 1, 1, i
Arade02040, 1, 1, i
Arade03020, 1, 1, i

~

```
&ty
&ty Adding data from rng_rept.csv...
add from rng_rept.csv
sort hexid
&ty
&ty Finished with rng_rept.fil
```

```
define hab_amph.fil
mapunit, 2, 4, b
AAAAA01070, 1, 1, i
AAAAA01090, 1, 1, i
AAAAA01100, 1, 1, i
AAAAA01120, 1, 1, i
AAAAA01140, 1, 1, i
AAAAB01010, 1, 1, i
AAAAC01010, 1, 1, i
AAAAD01010, 1, 1, i
AAAAD03010, 1, 1, i
AAAAD03020, 1, 1, i
AAAAD03040, 1, 1, i
AAAAD03050, 1, 1, i
AAAAD03060, 1, 1, i
AAAAD03080, 1, 1, i
AAAAD03100, 1, 1, i
AAAAD03110, 1, 1, i
AAAAD03130, 1, 1, i
AAAAD03140, 1, 1, i
AAAAD03150, 1, 1, i
AAAAD05020, 1, 1, i
AAAAD05040, 1, 1, i
AAAAD05090, 1, 1, i
AAAAD05140, 1, 1, i
AAAAD05150, 1, 1, i
AAAAD05290, 1, 1, i
AAAAD06020, 1, 1, i
AAAAD08010, 1, 1, i
AAAAD10010, 1, 1, i
AAAAD12020, 1, 1, i
AAAAD12070, 1, 1, i
AAAAD12090, 1, 1, i
AAAAD12150, 1, 1, i
AAAAD12160, 1, 1, i
AAAAD12220, 1, 1, i
AAAAD12230, 1, 1, i
AAAAD12240, 1, 1, i
AAAAD12250, 1, 1, i
AAAAD12300, 1, 1, i
AAAAD12370, 1, 1, i
AAAAD13010, 1, 1, i
AAAAD13020, 1, 1, i
AAAAD14010, 1, 1, i
AAAAE01030, 1, 1, i
AAAAE01040, 1, 1, i
AAAAE01050, 1, 1, i
AAAAF01030, 1, 1, i
AAAAG02010, 1, 1, i
AAAAG02020, 1, 1, i
AAABB01020, 1, 1, i
AAABB01130, 1, 1, i
AAABB01160, 1, 1, i
```

AAABB01210, 1, 1, i
AAABC01010, 1, 1, i
AAABC01020, 1, 1, i
AAABC02010, 1, 1, i
AAABC02050, 1, 1, i
AAABC02060, 1, 1, i
AAABC02090, 1, 1, i
AAABC02100, 1, 1, i
AAABC02120, 1, 1, i
AAABC02130, 1, 1, i
AAABC05020, 1, 1, i
AAABC05040, 1, 1, i
AAABC05050, 1, 1, i
AAABC05070, 1, 1, i
AAABC05090, 1, 1, i
AAABC05110, 1, 1, i
AAABE01010, 1, 1, i
AAABF01040, 1, 1, i
AAABH01070, 1, 1, i
AAABH01090, 1, 1, i
AAABH01160, 1, 1, i
AAABH01200, 1, 1, i
AAABH01220, 1, 1, i
AAABH01230, 1, 1, i
AAABH01270, 1, 1, i

~

&ty

&ty Adding data from hab_amph.csv...

add from hab_amph.csv

sort mapunit

&ty

&ty Finished with hab_amph.fil

define hab_avn1.fil

mapunit, 2, 4, b

ABNCA02010, 1, 1, i

ABNFC01020, 1, 1, i

ABNFD01020, 1, 1, i

ABNFE01010, 1, 1, i

ABNGA01020, 1, 1, i

ABNGA02010, 1, 1, i

ABNGA04010, 1, 1, i

ABNGA04040, 1, 1, i

ABNGA06030, 1, 1, i

ABNGA06040, 1, 1, i

ABNGA06050, 1, 1, i

ABNGA07010, 1, 1, i

ABNGA08010, 1, 1, i

ABNGA11010, 1, 1, i

ABNGA13010, 1, 1, i

ABNGE01010, 1, 1, i

ABNGE02010, 1, 1, i

ABNJB05030, 1, 1, i

ABNJB09010, 1, 1, i

ABNJB10040, 1, 1, i

ABNJB10060, 1, 1, i

ABNJB10130, 1, 1, i

ABNJB10160, 1, 1, i

ABNJB20010, 1, 1, i

ABNKA01010, 1, 1, i

ABNKA02010, 1, 1, i

ABNKC01010, 1, 1, i
ABNKC09010, 1, 1, i
ABNKC10010, 1, 1, i
ABNKC11010, 1, 1, i
ABNKC12020, 1, 1, i
ABNKC12040, 1, 1, i
ABNKC19030, 1, 1, i
ABNKC19050, 1, 1, i
ABNKC19110, 1, 1, i
ABNKD06020, 1, 1, i
ABNKD06070, 1, 1, i
ABNLC07010, 1, 1, i
ABNLC11010, 1, 1, i
ABNLC14010, 1, 1, i
ABNLC21020, 1, 1, i
ABNME03040, 1, 1, i
ABNME05010, 1, 1, i
ABNME05020, 1, 1, i
ABNME05030, 1, 1, i
ABNME13010, 1, 1, i
ABNME14020, 1, 1, i
ABNNB03040, 1, 1, i
ABNNB03070, 1, 1, i
ABNNB03090, 1, 1, i
ABNNC01010, 1, 1, i
ABNND01010, 1, 1, i
ABNNF02010, 1, 1, i
ABNNF19020, 1, 1, i
ABNNM03010, 1, 1, i
ABNNM03120, 1, 1, i
ABNNM03210, 1, 1, i
ABNNM08010, 1, 1, i
ABNNM08020, 1, 1, i
ABNNM08030, 1, 1, i
ABNNM08050, 1, 1, i
ABNNM08070, 1, 1, i
ABNNM08090, 1, 1, i
ABNNM08100, 1, 1, i
ABNNM08150, 1, 1, i
ABNNM14010, 1, 1, i

~

&ty

&ty Adding data from hab_avn1.csv...

add from hab_avn1.csv

sort mapunit

&ty

&ty Finished with hab_avn1.fil

define hab_avn2.fil

mapunit, 2, 4, b

ABNPB01010, 1, 1, i

ABNPB04040, 1, 1, i

ABNRB02010, 1, 1, i

ABNRB02020, 1, 1, i

ABNSA01010, 1, 1, i

ABNSB01030, 1, 1, i

ABNSB05010, 1, 1, i

ABNSB12020, 1, 1, i

ABNSB15020, 1, 1, i

ABNTA02020, 1, 1, i

ABNTA07010, 1, 1, i

ABNTA07070, 1, 1, i
ABNUA03010, 1, 1, i
ABNUC45010, 1, 1, i
ABNXD01020, 1, 1, i
ABNYF04040, 1, 1, i
ABNYF04170, 1, 1, i
ABNYF05010, 1, 1, i
ABNYF07030, 1, 1, i
ABNYF07040, 1, 1, i
ABNYF07060, 1, 1, i
ABNYF10020, 1, 1, i
ABNYF12020, 1, 1, i
ABPAE32060, 1, 1, i
ABPAE33020, 1, 1, i
ABPAE33030, 1, 1, i
ABPAE33040, 1, 1, i
ABPAE33070, 1, 1, i
ABPAE35020, 1, 1, i
ABPAE43070, 1, 1, i
ABPAE52060, 1, 1, i
ABPAT02010, 1, 1, i
ABPAU01010, 1, 1, i
ABPAU03010, 1, 1, i
ABPAU07010, 1, 1, i
ABPAU09010, 1, 1, i
ABPAU09030, 1, 1, i
ABPAV02020, 1, 1, i
ABPAV10010, 1, 1, i
ABPAV10080, 1, 1, i
ABPAV10110, 1, 1, i
ABPAW01010, 1, 1, i
ABPAW01020, 1, 1, i
ABPAW01110, 1, 1, i
ABPAZ01010, 1, 1, i
ABPAZ01020, 1, 1, i
ABPAZ01040, 1, 1, i
ABPBA01010, 1, 1, i
ABPBG06130, 1, 1, i
ABPBG09010, 1, 1, i
ABPBG09050, 1, 1, i
ABPBG10020, 1, 1, i
ABPBJ05010, 1, 1, i
ABPBJ08010, 1, 1, i
ABPBJ15010, 1, 1, i
ABPBJ18080, 1, 1, i
ABPBJ18110, 1, 1, i
ABPBJ19010, 1, 1, i
ABPBJ20170, 1, 1, i
ABPBK01010, 1, 1, i
ABPBK03010, 1, 1, i
ABPBK06010, 1, 1, i
ABPBN01020, 1, 1, i
ABPBR01030, 1, 1, i
ABPBT01010, 1, 1, i
ABPBW01020, 1, 1, i
ABPBW01160, 1, 1, i
ABPBW01170, 1, 1, i
ABPBW01210, 1, 1, i
ABPBW01240, 1, 1, i
~

&ty


```
&ty Adding data from hab_avn2.csv...
add from hab_avn2.csv
sort mapunit
&ty
&ty Finished with hab_avn2.fil
```

```
define hab_avn3.fil
mapunit, 2, 4, b
ABPBX01020, 1, 1, i
ABPBX01030, 1, 1, i
ABPBX02010, 1, 1, i
ABPBX03010, 1, 1, i
ABPBX03020, 1, 1, i
ABPBX03050, 1, 1, i
ABPBX03100, 1, 1, i
ABPBX03120, 1, 1, i
ABPBX03130, 1, 1, i
ABPBX03170, 1, 1, i
ABPBX03190, 1, 1, i
ABPBX03240, 1, 1, i
ABPBX05010, 1, 1, i
ABPBX06010, 1, 1, i
ABPBX07010, 1, 1, i
ABPBX08010, 1, 1, i
ABPBX09010, 1, 1, i
ABPBX10010, 1, 1, i
ABPBX10030, 1, 1, i
ABPBX11010, 1, 1, i
ABPBX12010, 1, 1, i
ABPBX16010, 1, 1, i
ABPBX16030, 1, 1, i
ABPBX24010, 1, 1, i
ABPBX45030, 1, 1, i
ABPBX45040, 1, 1, i
ABPBX60010, 1, 1, i
ABPBX61030, 1, 1, i
ABPBX63010, 1, 1, i
ABPBX64030, 1, 1, i
ABPBX64060, 1, 1, i
ABPBX65010, 1, 1, i
ABPBX74030, 1, 1, i
ABPBX91050, 1, 1, i
ABPBX94020, 1, 1, i
ABPBX94050, 1, 1, i
ABPBX95010, 1, 1, i
ABPBX96010, 1, 1, i
ABPBX99010, 1, 1, i
ABPBXA0020, 1, 1, i
ABPBXA0030, 1, 1, i
ABPBXA0060, 1, 1, i
ABPBXA3010, 1, 1, i
ABPBXA5020, 1, 1, i
ABPBXA9010, 1, 1, i
ABPBXB0010, 1, 1, i
ABPBXB2020, 1, 1, i
ABPBXB6060, 1, 1, i
ABPBXB6070, 1, 1, i
ABPBXB7030, 1, 1, i
ABPBXB9070, 1, 1, i
ABPBXB9190, 1, 1, i
ABPBX04040, 1, 1, i
```

```
ABPBY05010, 1, 1, i
ABPBY06030, 1, 1, i
ABPBY06110, 1, 1, i
ABPBZ01010, 1, 1, i
~
&ty
&ty Adding data from hab_avn3.csv...
add from hab_avn3.csv
sort mapunit
&ty
&ty Finished with hab_avn3.fil
```

```
define hab_mamm.fil
mapunit, 2, 4, b
AMAAA01010, 1, 1, i
AMABA01010, 1, 1, i
AMABA01060, 1, 1, i
AMABA01150, 1, 1, i
AMABA01180, 1, 1, i
AMABA01210, 1, 1, i
AMABA01250, 1, 1, i
AMABA03010, 1, 1, i
AMABA03020, 1, 1, i
AMABA04010, 1, 1, i
AMABB03010, 1, 1, i
AMABB04010, 1, 1, i
AMABB05010, 1, 1, i
AMACC01010, 1, 1, i
AMACC01030, 1, 1, i
AMACC01100, 1, 1, i
AMACC01130, 1, 1, i
AMACC01150, 1, 1, i
AMACC03020, 1, 1, i
AMACC04010, 1, 1, i
AMACC05010, 1, 1, i
AMACC05020, 1, 1, i
AMACC06010, 1, 1, i
AMACC08010, 1, 1, i
AMACC08020, 1, 1, i
AMACD01010, 1, 1, i
AMAEB01030, 1, 1, i
AMAEB01040, 1, 1, i
AMAEB01090, 1, 1, i
AMAFB02230, 1, 1, i
AMAFB03010, 1, 1, i
AMAFB07010, 1, 1, i
AMAFB07040, 1, 1, i
AMAFB08010, 1, 1, i
AMAFB09010, 1, 1, i
AMAFB09020, 1, 1, i
AMAFE01010, 1, 1, i
AMAFF01010, 1, 1, i
AMAFF02020, 1, 1, i
AMAFF03040, 1, 1, i
AMAFF03060, 1, 1, i
AMAFF03070, 1, 1, i
AMAFF03080, 1, 1, i
AMAFF04010, 1, 1, i
AMAFF07010, 1, 1, i
AMAFF08010, 1, 1, i
AMAFF08100, 1, 1, i
```

AMAFF09020, 1, 1, i
AMAFF11010, 1, 1, i
AMAFF11090, 1, 1, i
AMAFF11150, 1, 1, i
AMAFF15010, 1, 1, i
AMAFF17010, 1, 1, i
AMAFF21010, 1, 1, i
AMAFF21020, 1, 1, i
AMAFF22010, 1, 1, i
AMAFH01010, 1, 1, i
AMAFH02010, 1, 1, i
AMAFK01010, 1, 1, i
AMAJA01010, 1, 1, i
AMAJA01020, 1, 1, i
AMAJA03010, 1, 1, i
AMAJA04010, 1, 1, i
AMAJB01010, 1, 1, i
AMAJE02010, 1, 1, i
AMAJF02020, 1, 1, i
AMAJF02030, 1, 1, i
AMAJF02050, 1, 1, i
AMAJF05010, 1, 1, i
AMAJF06010, 1, 1, i
AMAJF08010, 1, 1, i
AMAJH03020, 1, 1, i
AMALA01010, 1, 1, i
AMALC02020, 1, 1, i
AMATA01010, 1, 1, i

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&ty

&ty Adding data from hab_mamm.csv...

add from hab_mamm.csv

sort mapunit

&ty

&ty Finished with hab_mamm.fil

define hab_rept.fil

mapunit, 2, 4, b

ARAAA01010, 1, 1, i

ARAAA02010, 1, 1, i

ARAAA04010, 1, 1, i

ARAAB01010, 1, 1, i

ARAAC01010, 1, 1, i

ARAAD01010, 1, 1, i

ARAAD02010, 1, 1, i

ARAAD02040, 1, 1, i

ARAAD03010, 1, 1, i

ARAAD06010, 1, 1, i

ARAAD07020, 1, 1, i

ARAAD07030, 1, 1, i

ARAAD07050, 1, 1, i

ARAAD08010, 1, 1, i

ARAAD09010, 1, 1, i

ARAAE01010, 1, 1, i

ARAAE01050, 1, 1, i

ARAAE02030, 1, 1, i

ARAAE02040, 1, 1, i

ARAAG01030, 1, 1, i

ARABA01010, 1, 1, i

ARACB02010, 1, 1, i

ARACB02030, 1, 1, i

ARACB02040, 1, 1, i
ARACF01010, 1, 1, i
ARACF12010, 1, 1, i
ARACF14130, 1, 1, i
ARACH01010, 1, 1, i
ARACH01050, 1, 1, i
ARACH01070, 1, 1, i
ARACH01080, 1, 1, i
ARACH03010, 1, 1, i
ARACJ02110, 1, 1, i
ARADB02010, 1, 1, i
ARADB03010, 1, 1, i
ARADB07010, 1, 1, i
ARADB10010, 1, 1, i
ARADB13020, 1, 1, i
ARADB13030, 1, 1, i
ARADB14010, 1, 1, i
ARADB14020, 1, 1, i
ARADB17020, 1, 1, i
ARADB17030, 1, 1, i
ARADB19010, 1, 1, i
ARADB19020, 1, 1, i
ARADB19050, 1, 1, i
ARADB21020, 1, 1, i
ARADB22020, 1, 1, i
ARADB22030, 1, 1, i
ARADB22060, 1, 1, i
ARADB22070, 1, 1, i
ARADB23010, 1, 1, i
ARADB26010, 1, 1, i
ARADB27030, 1, 1, i
ARADB27040, 1, 1, i
ARADB28010, 1, 1, i
ARADB31010, 1, 1, i
ARADB34010, 1, 1, i
ARADB34030, 1, 1, i
ARADB35020, 1, 1, i
ARADB36120, 1, 1, i
ARADB36130, 1, 1, i
ARADB39010, 1, 1, i
ARADB39020, 1, 1, i
ARADC02010, 1, 1, i
ARADE01010, 1, 1, i
ARADE01020, 1, 1, i
ARADE02010, 1, 1, i
ARADE02040, 1, 1, i
ARADE03020, 1, 1, i

~

```
&ty  
&ty Adding data from hab_rept.csv...  
add from hab_rept.csv  
sort mapunit  
&ty  
&ty Finished with hab_rept.fil
```

```
define xhb_amph.fil  
mapunit, 2, 4, b  
AAAAA01070, 1, 1, i  
AAAAA01090, 1, 1, i  
AAAAA01100, 1, 1, i  
AAAAA01120, 1, 1, i
```

AAAAA01140, 1, 1, i
AAAAB01010, 1, 1, i
AAAAC01010, 1, 1, i
AAAAD01010, 1, 1, i
AAAAD03010, 1, 1, i
AAAAD03020, 1, 1, i
AAAAD03040, 1, 1, i
AAAAD03050, 1, 1, i
AAAAD03060, 1, 1, i
AAAAD03080, 1, 1, i
AAAAD03100, 1, 1, i
AAAAD03110, 1, 1, i
AAAAD03130, 1, 1, i
AAAAD03140, 1, 1, i
AAAAD03150, 1, 1, i
AAAAD05020, 1, 1, i
AAAAD05040, 1, 1, i
AAAAD05090, 1, 1, i
AAAAD05140, 1, 1, i
AAAAD05150, 1, 1, i
AAAAD05290, 1, 1, i
AAAAD06020, 1, 1, i
AAAAD08010, 1, 1, i
AAAAD10010, 1, 1, i
AAAAD12020, 1, 1, i
AAAAD12070, 1, 1, i
AAAAD12090, 1, 1, i
AAAAD12150, 1, 1, i
AAAAD12160, 1, 1, i
AAAAD12220, 1, 1, i
AAAAD12230, 1, 1, i
AAAAD12240, 1, 1, i
AAAAD12250, 1, 1, i
AAAAD12300, 1, 1, i
AAAAD12370, 1, 1, i
AAAAD13010, 1, 1, i
AAAAD13020, 1, 1, i
AAAAD14010, 1, 1, i
AAAAE01030, 1, 1, i
AAAAE01040, 1, 1, i
AAAAE01050, 1, 1, i
AAAAF01030, 1, 1, i
AAAAG02010, 1, 1, i
AAAAG02020, 1, 1, i
AAABB01020, 1, 1, i
AAABB01130, 1, 1, i
AAABB01160, 1, 1, i
AAABB01210, 1, 1, i
AAABC01010, 1, 1, i
AAABC01020, 1, 1, i
AAABC02010, 1, 1, i
AAABC02050, 1, 1, i
AAABC02060, 1, 1, i
AAABC02090, 1, 1, i
AAABC02100, 1, 1, i
AAABC02120, 1, 1, i
AAABC02130, 1, 1, i
AAABC05020, 1, 1, i
AAABC05040, 1, 1, i
AAABC05050, 1, 1, i
AAABC05070, 1, 1, i

AAABC05090, 1, 1, i
AAABC05110, 1, 1, i
AAABE01010, 1, 1, i
AAABF01040, 1, 1, i
AAABH01070, 1, 1, i
AAABH01090, 1, 1, i
AAABH01160, 1, 1, i
AAABH01200, 1, 1, i
AAABH01220, 1, 1, i
AAABH01230, 1, 1, i
AAABH01270, 1, 1, i

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&ty

&ty Adding data from xhb_amph.csv...

add from xhb_amph.csv

sort mapunit

&ty

&ty Finished with xhb_amph.fil

define xhb_avn1.fil

mapunit, 2, 4, b

ABNCA02010, 1, 1, i

ABNFC01020, 1, 1, i

ABNFD01020, 1, 1, i

ABNFE01010, 1, 1, i

ABNGA01020, 1, 1, i

ABNGA02010, 1, 1, i

ABNGA04010, 1, 1, i

ABNGA04040, 1, 1, i

ABNGA06030, 1, 1, i

ABNGA06040, 1, 1, i

ABNGA06050, 1, 1, i

ABNGA07010, 1, 1, i

ABNGA08010, 1, 1, i

ABNGA11010, 1, 1, i

ABNGA13010, 1, 1, i

ABNGE01010, 1, 1, i

ABNGE02010, 1, 1, i

ABNJB05030, 1, 1, i

ABNJB09010, 1, 1, i

ABNJB10040, 1, 1, i

ABNJB10060, 1, 1, i

ABNJB10130, 1, 1, i

ABNJB10160, 1, 1, i

ABNJB20010, 1, 1, i

ABNKA01010, 1, 1, i

ABNKA02010, 1, 1, i

ABNKC01010, 1, 1, i

ABNKC09010, 1, 1, i

ABNKC10010, 1, 1, i

ABNKC11010, 1, 1, i

ABNKC12020, 1, 1, i

ABNKC12040, 1, 1, i

ABNKC19030, 1, 1, i

ABNKC19050, 1, 1, i

ABNKC19110, 1, 1, i

ABNKD06020, 1, 1, i

ABNKD06070, 1, 1, i

ABNLC07010, 1, 1, i

ABNLC11010, 1, 1, i

ABNLC14010, 1, 1, i

ABNLC21020, 1, 1, i
ABNME03040, 1, 1, i
ABNME05010, 1, 1, i
ABNME05020, 1, 1, i
ABNME05030, 1, 1, i
ABNME13010, 1, 1, i
ABNME14020, 1, 1, i
ABNNB03040, 1, 1, i
ABNNB03070, 1, 1, i
ABNNB03090, 1, 1, i
ABNNC01010, 1, 1, i
ABNND01010, 1, 1, i
ABNNF02010, 1, 1, i
ABNNF19020, 1, 1, i
ABNNM03010, 1, 1, i
ABNNM03120, 1, 1, i
ABNNM03210, 1, 1, i
ABNNM08010, 1, 1, i
ABNNM08020, 1, 1, i
ABNNM08030, 1, 1, i
ABNNM08050, 1, 1, i
ABNNM08070, 1, 1, i
ABNNM08090, 1, 1, i
ABNNM08100, 1, 1, i
ABNNM08150, 1, 1, i
ABNNM14010, 1, 1, i

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&ty

&ty Adding data from xhb_avn1.csv...

add from xhb_avn1.csv

sort mapunit

&ty

&ty Finished with xhb_avn1.fil

define xhb_avn2.fil

mapunit, 2, 4, b

ABNPB01010, 1, 1, i

ABNPB04040, 1, 1, i

ABNRB02010, 1, 1, i

ABNRB02020, 1, 1, i

ABNSA01010, 1, 1, i

ABNSB01030, 1, 1, i

ABNSB05010, 1, 1, i

ABNSB12020, 1, 1, i

ABNSB15020, 1, 1, i

ABNTA02020, 1, 1, i

ABNTA07010, 1, 1, i

ABNTA07070, 1, 1, i

ABNUA03010, 1, 1, i

ABNUC45010, 1, 1, i

ABNXD01020, 1, 1, i

ABNYF04040, 1, 1, i

ABNYF04170, 1, 1, i

ABNYF05010, 1, 1, i

ABNYF07030, 1, 1, i

ABNYF07040, 1, 1, i

ABNYF07060, 1, 1, i

ABNYF10020, 1, 1, i

ABNYF12020, 1, 1, i

ABPAE32060, 1, 1, i

ABPAE33020, 1, 1, i

ABPAE33030, 1, 1, i
ABPAE33040, 1, 1, i
ABPAE33070, 1, 1, i
ABPAE35020, 1, 1, i
ABPAE43070, 1, 1, i
ABPAE52060, 1, 1, i
ABPAT02010, 1, 1, i
ABPAU01010, 1, 1, i
ABPAU03010, 1, 1, i
ABPAU07010, 1, 1, i
ABPAU09010, 1, 1, i
ABPAU09030, 1, 1, i
ABPAV02020, 1, 1, i
ABPAV10010, 1, 1, i
ABPAV10080, 1, 1, i
ABPAV10110, 1, 1, i
ABPAW01010, 1, 1, i
ABPAW01020, 1, 1, i
ABPAW01110, 1, 1, i
ABPAZ01010, 1, 1, i
ABPAZ01020, 1, 1, i
ABPAZ01040, 1, 1, i
ABPBA01010, 1, 1, i
ABPBG06130, 1, 1, i
ABPBG09010, 1, 1, i
ABPBG09050, 1, 1, i
ABPBG10020, 1, 1, i
ABPBJ05010, 1, 1, i
ABPBJ08010, 1, 1, i
ABPBJ15010, 1, 1, i
ABPBJ18080, 1, 1, i
ABPBJ18110, 1, 1, i
ABPBJ19010, 1, 1, i
ABPBJ20170, 1, 1, i
ABPBK01010, 1, 1, i
ABPBK03010, 1, 1, i
ABPBK06010, 1, 1, i
ABPBN01020, 1, 1, i
ABPBR01030, 1, 1, i
ABPBT01010, 1, 1, i
ABPBW01020, 1, 1, i
ABPBW01160, 1, 1, i
ABPBW01170, 1, 1, i
ABPBW01210, 1, 1, i
ABPBW01240, 1, 1, i

~

&ty

&ty Adding data from xhb_avn2.csv...

add from xhb_avn2.csv

sort mapunit

&ty

&ty Finished with xhb_avn2.fil

define xhb_avn3.fil

mapunit, 2, 4, b

ABPBX01020, 1, 1, i

ABPBX01030, 1, 1, i

ABPBX02010, 1, 1, i

ABPBX03010, 1, 1, i

ABPBX03020, 1, 1, i

ABPBX03050, 1, 1, i

ABPBX03100, 1, 1, i
ABPBX03120, 1, 1, i
ABPBX03130, 1, 1, i
ABPBX03170, 1, 1, i
ABPBX03190, 1, 1, i
ABPBX03240, 1, 1, i
ABPBX05010, 1, 1, i
ABPBX06010, 1, 1, i
ABPBX07010, 1, 1, i
ABPBX08010, 1, 1, i
ABPBX09010, 1, 1, i
ABPBX10010, 1, 1, i
ABPBX10030, 1, 1, i
ABPBX11010, 1, 1, i
ABPBX12010, 1, 1, i
ABPBX16010, 1, 1, i
ABPBX16030, 1, 1, i
ABPBX24010, 1, 1, i
ABPBX45030, 1, 1, i
ABPBX45040, 1, 1, i
ABPBX60010, 1, 1, i
ABPBX61030, 1, 1, i
ABPBX63010, 1, 1, i
ABPBX64030, 1, 1, i
ABPBX64060, 1, 1, i
ABPBX65010, 1, 1, i
ABPBX74030, 1, 1, i
ABPBX91050, 1, 1, i
ABPBX94020, 1, 1, i
ABPBX94050, 1, 1, i
ABPBX95010, 1, 1, i
ABPBX96010, 1, 1, i
ABPBX99010, 1, 1, i
ABPBXA0020, 1, 1, i
ABPBXA0030, 1, 1, i
ABPBXA0060, 1, 1, i
ABPBXA3010, 1, 1, i
ABPBXA5020, 1, 1, i
ABPBXA9010, 1, 1, i
ABPBXB0010, 1, 1, i
ABPBXB2020, 1, 1, i
ABPBXB6060, 1, 1, i
ABPBXB6070, 1, 1, i
ABPBXB7030, 1, 1, i
ABPBXB9070, 1, 1, i
ABPBXB9190, 1, 1, i
ABPBY04040, 1, 1, i
ABPBY05010, 1, 1, i
ABPBY06030, 1, 1, i
ABPBY06110, 1, 1, i
ABPBZ01010, 1, 1, i

~

&ty

&ty Adding data from xhb_avn3.csv...

add from xhb_avn3.csv

sort mapunit

&ty

&ty Finished with xhb_avn3.fil

define xhb_mamm.fil

mapunit, 2, 4, b

AMAAA01010, 1, 1, i
AMABA01010, 1, 1, i
AMABA01060, 1, 1, i
AMABA01150, 1, 1, i
AMABA01180, 1, 1, i
AMABA01210, 1, 1, i
AMABA01250, 1, 1, i
AMABA03010, 1, 1, i
AMABA03020, 1, 1, i
AMABA04010, 1, 1, i
AMABB03010, 1, 1, i
AMABB04010, 1, 1, i
AMABB05010, 1, 1, i
AMACC01010, 1, 1, i
AMACC01030, 1, 1, i
AMACC01100, 1, 1, i
AMACC01130, 1, 1, i
AMACC01150, 1, 1, i
AMACC03020, 1, 1, i
AMACC04010, 1, 1, i
AMACC05010, 1, 1, i
AMACC05020, 1, 1, i
AMACC06010, 1, 1, i
AMACC08010, 1, 1, i
AMACC08020, 1, 1, i
AMACD01010, 1, 1, i
AMAEB01030, 1, 1, i
AMAEB01040, 1, 1, i
AMAEB01090, 1, 1, i
AMAFB02230, 1, 1, i
AMAFB03010, 1, 1, i
AMAFB07010, 1, 1, i
AMAFB07040, 1, 1, i
AMAFB08010, 1, 1, i
AMAFB09010, 1, 1, i
AMAFB09020, 1, 1, i
AMAFE01010, 1, 1, i
AMAFF01010, 1, 1, i
AMAFF02020, 1, 1, i
AMAFF03040, 1, 1, i
AMAFF03060, 1, 1, i
AMAFF03070, 1, 1, i
AMAFF03080, 1, 1, i
AMAFF04010, 1, 1, i
AMAFF07010, 1, 1, i
AMAFF08010, 1, 1, i
AMAFF08100, 1, 1, i
AMAFF09020, 1, 1, i
AMAFF11010, 1, 1, i
AMAFF11090, 1, 1, i
AMAFF11150, 1, 1, i
AMAFF15010, 1, 1, i
AMAFF17010, 1, 1, i
AMAFF21010, 1, 1, i
AMAFF21020, 1, 1, i
AMAFF22010, 1, 1, i
AMAFH01010, 1, 1, i
AMAFH02010, 1, 1, i
AMAFK01010, 1, 1, i
AMAJA01010, 1, 1, i
AMAJA01020, 1, 1, i

AMAJA03010, 1, 1, i
AMAJA04010, 1, 1, i
AMAJB01010, 1, 1, i
AMAJE02010, 1, 1, i
AMAJF02020, 1, 1, i
AMAJF02030, 1, 1, i
AMAJF02050, 1, 1, i
AMAJF05010, 1, 1, i
AMAJF06010, 1, 1, i
AMAJF08010, 1, 1, i
AMAJH03020, 1, 1, i
AMALA01010, 1, 1, i
AMALC02020, 1, 1, i
AMATA01010, 1, 1, i

~

&ty

&ty Adding data from xhb_mamm.csv...

add from xhb_mamm.csv

sort mapunit

&ty

&ty Finished with xhb_mamm.fil

define xhb_rept.fil

mapunit, 2, 4, b

ARAAA01010, 1, 1, i

ARAAA02010, 1, 1, i

ARAAA04010, 1, 1, i

ARAAB01010, 1, 1, i

ARAAC01010, 1, 1, i

ARAAD01010, 1, 1, i

ARAAD02010, 1, 1, i

ARAAD02040, 1, 1, i

ARAAD03010, 1, 1, i

ARAAD06010, 1, 1, i

ARAAD07020, 1, 1, i

ARAAD07030, 1, 1, i

ARAAD07050, 1, 1, i

ARAAD08010, 1, 1, i

ARAAD09010, 1, 1, i

ARAAE01010, 1, 1, i

ARAAE01050, 1, 1, i

ARAAE02030, 1, 1, i

ARAAE02040, 1, 1, i

ARAAG01030, 1, 1, i

ARABA01010, 1, 1, i

ARACB02010, 1, 1, i

ARACB02030, 1, 1, i

ARACB02040, 1, 1, i

ARACF01010, 1, 1, i

ARACF12010, 1, 1, i

ARACF14130, 1, 1, i

ARACH01010, 1, 1, i

ARACH01050, 1, 1, i

ARACH01070, 1, 1, i

ARACH01080, 1, 1, i

ARACH03010, 1, 1, i

ARACJ02110, 1, 1, i

ARADB02010, 1, 1, i

ARADB03010, 1, 1, i

ARADB07010, 1, 1, i

ARADB10010, 1, 1, i

ARADB13020, 1, 1, i
ARADB13030, 1, 1, i
ARADB14010, 1, 1, i
ARADB14020, 1, 1, i
ARADB17020, 1, 1, i
ARADB17030, 1, 1, i
ARADB19010, 1, 1, i
ARADB19020, 1, 1, i
ARADB19050, 1, 1, i
ARADB21020, 1, 1, i
ARADB22020, 1, 1, i
ARADB22030, 1, 1, i
ARADB22060, 1, 1, i
ARADB22070, 1, 1, i
ARADB23010, 1, 1, i
ARADB26010, 1, 1, i
ARADB27030, 1, 1, i
ARADB27040, 1, 1, i
ARADB28010, 1, 1, i
ARADB31010, 1, 1, i
ARADB34010, 1, 1, i
ARADB34030, 1, 1, i
ARADB35020, 1, 1, i
ARADB36120, 1, 1, i
ARADB36130, 1, 1, i
ARADB39010, 1, 1, i
ARADB39020, 1, 1, i
ARADC02010, 1, 1, i
ARADE01010, 1, 1, i
ARADE01020, 1, 1, i
ARADE02010, 1, 1, i
ARADE02040, 1, 1, i
ARADE03020, 1, 1, i

~

&ty

&ty Adding data from xhb_rept.csv...

add from xhb_rept.csv

sort mapunit

&ty

&ty Finished with xhb_rept.fil

quit

/*=====

relate add

rng_amph

rng_amph.fil

info

value

hexid

ordered

ro

rng_avn1

rng_avn1.fil

info

value

hexid

ordered

ro

rng_avn2
rng_avn2.fil
info
value
hexid
ordered
ro

rng_avn3
rng_avn3.fil
info
value
hexid
ordered
ro

rng_mamm
rng_mamm.fil
info
value
hexid
ordered
ro

rng_rept
rng_rept.fil
info
value
hexid
ordered
ro

hab_amph
hab_amph.fil
info
value
mapunit
ordered
ro

hab_avn1
hab_avn1.fil
info
value
mapunit
ordered
ro

hab_avn2
hab_avn2.fil
info
value
mapunit
ordered
ro

hab_avn3
hab_avn3.fil
info

value
mapunit
ordered
ro

hab_mamm
hab_mamm.fil
info
value
mapunit
ordered
ro

hab_rept
hab_rept.fil
info
value
mapunit
ordered
ro

xhb_amph
xhb_amph.fil
info
value
mapunit
ordered
ro

xhb_avn1
xhb_avn1.fil
info
value
mapunit
ordered
ro

xhb_avn2
xhb_avn2.fil
info
value
mapunit
ordered
ro

xhb_avn3
xhb_avn3.fil
info
value
mapunit
ordered
ro

xhb_mamm
xhb_mamm.fil
info
value
mapunit
ordered
ro

xhb_rept
xhb_rept.fil
info
value
mapunit
ordered
ro
~
relate save RNG_HAB.REL

&ty
&ty Finished creating RANGE and HABITAT relates in RNG_HAB.REL

AAABC02050 200 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC02060 50 50 50 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC02090 500 50 50 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 -18 2500
AAABC02100 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC02120 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC02130 200 50 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC05020 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC05040 0 0 0 0 1 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC05050 0 0 0 0 1 1 0 0 0 1 0 0 0 1 1 0 0 0 0 0 0 0 0 0 -18 2500
AAABC05070 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 -18 762
AAABC05090 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABC05110 50 50 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABE01010 0 0 50 0 1 1 0 0 0 0 0 1 0 1 1 0 0 1 0 0 0 0 0 0 -18 2500
AAABF01040 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0 -18 2500
AAABH01070 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01090 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01160 50 50 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01200 0 0 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01220 200 200 50 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01230 50 50 50 0 1 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 -18 2500
AAABH01270 0 0 0 0 1 1 0 0 2 0 1 0 0 1 1 1 0 0 0 0 0 0 0 0 -18 2500
ABNCA02010 50 0 500 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNFC01020 50 0 9999 0 1 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNFD01020 50 0 9999 0 -18 2500
ABNFE01010 50 0 9999 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA01020 50 50 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500
ABNGA02010 50 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500
ABNGA04010 50 50 50 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA04040 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA06030 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA06040 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA06050 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA07010 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA08010 50 50 50 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA11010 50 0 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGA13010 50 0 50 0 1 1 1 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGE01010 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNGE02010 50 50 50 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB05030 500 0 500 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB09010 500 500 50 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB10040 50 0 200 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB10060 50 0 200 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB10130 50 0 200 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB10160 200 0 200 0 1 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNJB20010 500 500 200 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -18 2500
ABNKA01010 -18 2500
ABNKA02010 -18 2500
ABNKC01010 0 0 5000 1000 -18 2500
ABNKC09010 1 0 0 -18 2500
ABNKC10010 0 0 5000 3000 1 0 0 -18 2500
ABNKC11010 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500
ABNKC12020 -18 2500
ABNKC12040 -18 2500
ABNKC19030 500 500 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500
ABNKC19050 1 0 0 -18 2500
ABNKC19110 -18 2500
ABNKD06020 -18 2500
ABNKD06070 1 0 0 -18 2500
ABNLC07010 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500
ABNLC11010 -18 2500
ABNLC14010 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 -18 2500

1620,1,0,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,2,0,0,0,0,0,2,2,0,0,0,0,0,0,0,0,1,0,2,0,0,1,2,2,2,2,1,2,2,1,2,0,2,2,2,1,2,0,1,0,0,1,2,2,2,2,2,2,0,2,1,0
1621,1,2,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,0,0,0,0,0,0,2,0,0,0,0,0,0,0,1,0,3,0,0,1,2,2,2,2,1,2,2,1,2,0,2,2,2,1,2,0,1,0,1,1,2,2,2,2,2,2,0,2,1,0
1622,1,2,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,0,0,0,0,0,0,2,0,0,0,0,0,0,0,1,0,2,1,0,1,2,2,2,0,2,2,2,0,2,0,2,2,2,2,2,0,2,2,2,1,2,2,2,2,2,2,0,2,2,2
1623,1,0,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,0,0,0,0,1,2,0,0,0,0,0,0,0,0,1,0,2,2,0,2,2,2,2,0,1,2,2,0,2,0,2,2,2,2,0,2,2,1,0,2,2,2,2,2,2,0,2,2,0
1624,1,0,3,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,3,3,0,0,0,0,0,1,2,0,0,0,0,0,0,0,0,1,0,2,3,0,2,2,3,2,0,2,2,3,0,2,0,2,2,2,2,0,2,2,1,0,2,2,2,2,2,3,0,2,2,0
1625,3,0,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,0,0,0,0,0,3,0,0,0,0,0,0,0,0,2,0,2,2,0,2,2,2,0,2,2,2,0,2,3,2,2,2,2,3,0,1,2,2,0,3,2,2,2,2,2,0,2,2,2
1626,2,0,3,0,0,3,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,0,0,0,0,2,0,0,0,0,0,0,0,0,3,0,2,0,0,3,3,2,2,0,3,3,2,0,3,2,3,3,3,2,3,0,1,2,2,0,2,3,2,3,2,3,1,0,3,3,3
1627,1,0,2,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,0,0,0,0,2,0,0,0,0,0,0,0,0,2,0,2,0,0,2,2,2,0,2,2,2,0,2,2,2,2,2,0,1,2,1,1,2,2,2,2,2,2,0,2,2,2
1628,1,0,1,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,0,0,0,0,2,0,0,0,0,0,2,0,0,0,0,0,0,0,0,2,0,2,0,0,1,2,1,2,0,1,2,2,0,2,0,2,2,2,2,0,1,2,2,0,2,2,2,2,0,2,2,2
1629,1,0,1,0,0,2,0,0,0,2,0,0,0,0,0,0,0,0,0,0,0,0,2,2,0,1,0,0,0,0,2,0,0,0,0,0,0,0,0,0,2,0,2,0,0,1,2,1,2,0,1,2,2,0,2,0,2,2,2,2,0,1,2,2,0,2,2,2,2,2,1,0,2,2,2
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527,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0
528,1,0,0,1,0,1,0,0,0,0,0,1,0
529,0,1,0,1,0,1,0,0,0,0,0,1,0
530,0,1,0,1,0,1,0,0,0,0,0,1,0
533,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,1,0,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,1,0,0,0,0
534,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,1,0,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,1,0,0,0,0
535,1,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,1,0,1,0,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,1,1,1,0,0,1,0

Appendix S. Species modeled for NC_GAP. Click on the common name to see the Species Report. Source of nomenclature and species ElCode is from NatureServe.

Common Name	Scientific Name	ElCode
MABEE'S SALAMANDER	AMBYSTOMA MABEEI	AAAAA01070
SPOTTED SALAMANDER	AMBYSTOMA MACULATUM	AAAAA01090
MARBLED SALAMANDER	AMBYSTOMA OPACUM	AAAAA01100
MOLE SALAMANDER	AMBYSTOMA TALPOIDEUM	AAAAA01120
TIGER SALAMANDER	AMBYSTOMA TIGRINUM	AAAAA01140
TWO-TOED AMPHIUMA	AMPHIUMA MEANS	AAAAB01010
HELLBENDER	CRYPTOBRANCHUS ALLEGANIENSIS	AAAAC01010
GREEN SALAMANDER	ANEIDES AENEUS	AAAAD01010
SEEPAGE SALAMANDER	DESMOGNATHUS AENEUS	AAAAD03010
SOUTHERN DUSKY SALAMANDER	DESMOGNATHUS AURICULATUS	AAAAD03020
DUSKY SALAMANDER	DESMOGNATHUS FUSCUS	AAAAD03040
IMITATOR SALAMANDER	DESMOGNATHUS IMITATOR	AAAAD03050
SEAL SALAMANDER	DESMOGNATHUS MONTICOLA	AAAAD03060
BLACKBELLY SALAMANDER	DESMOGNATHUS QUADRAMACULATUS	AAAAD03080
PIGMY SALAMANDER	DESMOGNATHUS WRIGHTI	AAAAD03100
SANTEETLAH DUSKY SALAMANDER	DESMOGNATHUS SANTEETLAH	AAAAD03110
CAROLINA MOUNTAIN DUSKY SALAMANDER	DESMOGNATHUS CAROLINENSIS	AAAAD03130
OCOEE SALAMANDER	DESMOGNATHUS OCOEE	AAAAD03140
BLUE RIDGE DUSKY SALAMANDER	DESMOGNATHUS ORESTES	AAAAD03150
JUNALUSKA SALAMANDER	EURYCEA JUNALUSKA	AAAAD05020
LONGTAIL SALAMANDER	EURYCEA LONGICAUDA	AAAAD05040
DWARF SALAMANDER	EURYCEA QUADRIDIGITATA	AAAAD05090
SOUTHERN TWO-LINED SALAMANDER	EURYCEA CIRRIGERA	AAAAD05140
BLUE RIDGE TWO-LINED SALAMANDER	EURYCEA WILDERAE	AAAAD05150
THREE-LINED SALAMANDER	EURYCEA GUTTOLINEATA	AAAAD05290
SPRING SALAMANDER	GYRINOPHILUS PORPHYRITICUS	AAAAD06020
FOUR-TOED SALAMANDER	HEMIDACTYLUM SCUTATUM	AAAAD08010
SHOVELNOSE SALAMANDER	LEUROGNATHUS MARMORATUS	AAAAD10010
REDBACK SALAMANDER	PLETHODON CINEREUS	AAAAD12020
SLIMY SALAMANDER	PLETHODON GLUTINOSUS	AAAAD12070
JORDAN'S SALAMANDER	PLETHODON JORDANI	AAAAD12090

Common Name	Scientific Name	EICode
RAVINE SALAMANDER	PLETHODON RICHMONDI	AAAAD12150
SOUTHERN REDBACK SALAMANDER	PLETHODON SERRATUS	AAAAD12160
WEHRLE'S SALAMANDER	PLETHODON WEHRLEI	AAAAD12220
WELLER'S SALAMANDER	PLETHODON WELLERI	AAAAD12230
YONAHLOSSEE SALAMANDER	PLETHODON YONAHLOSSEE	AAAAD12240
TELLICO SALAMANDER	PLETHODON AUREOLUS	AAAAD12250
SOUTHERN APPALACHIAN SALAMANDER	PLETHODON TEYAHALEE	AAAAD12300
SOUTHERN ZIGZAG SALAMANDER	PLETHODON VENTRALIS	AAAAD12370
MUD SALAMANDER	PSEUDOTRITON MONTANUS	AAAAD13010
RED SALAMANDER	PSEUDOTRITON RUBER	AAAAD13020
MANY-LINED SALAMANDER	STEREOCHILUS MARGINATUS	AAAAD14010
NEUSE RIVER WATERDOG	NECTURUS LEWISI	AAAAE01030
MUDPUPPY	NECTURUS MACULOSUS	AAAAE01040
DWARF WATERDOG	NECTURUS PUNCTATUS	AAAAE01050
EASTERN NEWT	NOTOPHTHALMUS VIRIDESCENS	AAAAF01030
LESSER SIREN	SIREN INTERMEDIA	AAAAG02010
GREATER SIREN	SIREN LACERTINA	AAAAG02020
AMERICAN TOAD	BUFO AMERICANUS	AAABB01020
OAK TOAD	BUFO QUERCICUS	AAABB01130
SOUTHERN TOAD	BUFO TERRESTRIS	AAABB01160
FOWLER'S TOAD	BUFO FOWLERI	AAABB01210
NORTHERN CRICKET FROG	ACRIS CREPITANS	AAABC01010
SOUTHERN CRICKET FROG	ACRIS GRYLLUS	AAABC01020
PINE BARRENS TREEFROG	HYLA ANDERSONII	AAABC02010
COPE'S GRAY TREEFROG	HYLA CHRYSOSCELIS	AAABC02050
GREEN TREEFROG	HYLA CINEREA	AAABC02060
PINE WOODS TREEFROG	HYLA FEMORALIS	AAABC02090
BARKING TREEFROG	HYLA GRATIOSA	AAABC02100
SQUIRREL TREEFROG	HYLA SQUIRELLA	AAABC02120
GRAY TREEFROG	HYLA VERSICOLOR	AAABC02130
BRIMLEY'S CHORUS FROG	PSEUDACRIS BRIMLEYI	AAABC05020
SOUTHERN CHORUS FROG	PSEUDACRIS NIGRITA	AAABC05040
ORNATE CHORUS FROG	PSEUDACRIS ORNATA	AAABC05050
UPLAND CHORUS FROG	PSEUDACRIS TRISERIATA	AAABC05070
SPRING PEEPER	PSEUDACRIS CRUCIFER	AAABC05090

Common Name	Scientific Name	EICode
LITTLE GRASS FROG	PSEUDACRIS OCULARIS	AAABC05110
EASTERN NARROWMOUTH TOAD	GASTROPHRYNE CAROLINENSIS	AAABE01010
EASTERN SPADEFOOT	SCAPHIOPUS HOLBROOKII	AAABF01040
BULLFROG	RANA CATESBEIANA	AAABH01070
GREEN FROG	RANA CLAMITANS	AAABH01090
PICKEREL FROG	RANA PALUSTRIS	AAABH01160
WOOD FROG	RANA SYLVATICA	AAABH01200
SOUTHERN LEOPARD FROG	RANA SPHENOCEPHALA	AAABH01220
CARPENTER FROG	RANA VIRGATIPES	AAABH01230
GOPHER FROG	RANA CAPITO	AAABH01270
PIED-BILLED GREBE	PODILYMBUS PODICEPS	ABNCA02010
BROWN PELICAN	PELECANUS OCCIDENTALIS	ABNFC01020
DOUBLE-CRESTED CORMORANT	PHALACROCORAX AURITUS	ABNFD01020
ANHINGA	ANHINGA ANHINGA	ABNFE01010
AMERICAN BITTERN	BOTAURUS LENTIGINOSUS	ABNGA01020
LEAST BITTERN	IXOBRYCHUS EXILIS	ABNGA02010
GREAT BLUE HERON	ARDEA HERODIAS	ABNGA04010
GREAT EGRET	ARDEA ALBA	ABNGA04040
SNOWY EGRET	EGRETTA THULA	ABNGA06030
LITTLE BLUE HERON	EGRETTA CAERULEA	ABNGA06040
TRICOLORED HERON	EGRETTA TRICOLOR	ABNGA06050
CATTLE EGRET	BUBULCUS IBIS	ABNGA07010
GREEN HERON	BUTORIDES VIRESCENS	ABNGA08010
BLACK-CROWNED NIGHT-HERON	NYCTICORAX NYCTICORAX	ABNGA11010
YELLOW-CROWNED NIGHT-HERON	NYCTANASSA VIOLACEA	ABNGA13010
WHITE IBIS	EUDOCIMUS ALBUS	ABNGE01010
GLOSSY IBIS	PLEGADIS FALCINELLUS	ABNGE02010
CANADA GOOSE	BRANTA CANADENSIS	ABNJB05030
WOOD DUCK	AIX SPONSA	ABNJB09010
AMERICAN BLACK DUCK	ANAS RUBRIPES	ABNJB10040
MALLARD	ANAS PLATYRHYNCHOS	ABNJB10060
BLUE-WINGED TEAL	ANAS DISCORS	ABNJB10130
GADWALL	ANAS STREPERA	ABNJB10160
HOODED MERGANSER	LOPHODYTES CUCULLATUS	ABNJB20010
BLACK VULTURE	CORAGYPS ATRATUS	ABNKA01010

Common Name	Scientific Name	EI Code
GREAT CRESTED FLYCATCHER	MYIARCHUS CRINITUS	ABPAE43070
EASTERN KINGBIRD	TYRANNUS TYRANNUS	ABPAE52060
HORNED LARK	EREMOPHILA ALPESTRIS	ABPAT02010
PURPLE MARTIN	PROGNE SUBIS	ABPAU01010
TREE SWALLOW	TACHYCINETA BICOLOR	ABPAU03010
NORTHERN ROUGH-WINGED SWALLOW	STELGIDOPTERYX SERRIPENNIS	ABPAU07010
CLIFF SWALLOW	PETROCHELIDON PYRRHONOTA	ABPAU09010
BARN SWALLOW	HIRUNDO RUSTICA	ABPAU09030
BLUE JAY	CYANOCITTA CRISTATA	ABPAV02020
AMERICAN CROW	CORVUS BRACHYRHYNCHOS	ABPAV10010
FISH CROW	CORVUS OSSIFRAGUS	ABPAV10080
COMMON RAVEN	CORVUS CORAX	ABPAV10110
BLACK-CAPPED CHICKADEE	POECILE ATRICAPILLUS	ABPAW01010
CAROLINA CHICKADEE	POECILE CAROLINENSIS	ABPAW01020
TUFTED TITMOUSE	BAEOLOPHUS BICOLOR	ABPAW01110
RED-BREASTED NUTHATCH	SITTA CANADENSIS	ABPAZ01010
WHITE-BREASTED NUTHATCH	SITTA CAROLINENSIS	ABPAZ01020
BROWN-HEADED NUTHATCH	SITTA PUSILLA	ABPAZ01040
BROWN CREEPER	CERTHIA AMERICANA	ABPBA01010
CAROLINA WREN	THRYOTHORUS LUDOVICIANUS	ABPBG06130
HOUSE WREN	TROGLODYTES AEDON	ABPBG09010
WINTER WREN	TROGLODYTES TROGLODYTES	ABPBG09050
MARSH WREN	CISTOTHORUS PALUSTRIS	ABPBG10020
GOLDEN-CROWNED KINGLET	REGULUS SATRAPA	ABPBJ05010
BLUE-GRAY GNATCATCHER	POLIOPTILA CAERULEA	ABPBJ08010
EASTERN BLUEBIRD	SIALIA SIALIS	ABPBJ15010
VEERY	CATHARUS FUSCESCENS	ABPBJ18080
HERMIT THRUSH	CATHARUS GUTTATUS	ABPBJ18110
WOOD THRUSH	HYLOCICHLA MUSTELINA	ABPBJ19010
AMERICAN ROBIN	TURDUS MIGRATORIUS	ABPBJ20170
GRAY CATBIRD	DUMETELLA CAROLINENSIS	ABPBK01010
NORTHERN MOCKINGBIRD	MIMUS POLYGLOTTOS	ABPBK03010
BROWN THRASHER	TOXOSTOMA RUFUM	ABPBK06010
CEDAR WAXWING	BOMBYCILLA CEDRORUM	ABPBN01020
LOGGERHEAD SHRIKE	LANIUS LUDOVICIANUS	ABPBR01030

Common Name	Scientific Name	EICode
SANDWICH TERN	STERNA SANDVICENSIS	ABNNM08050
COMMON TERN	STERNA HIRUNDO	ABNNM08070
FORSTER'S TERN	STERNA FORSTERI	ABNNM08090
LEAST TERN	STERNA ANTILLARUM	ABNNM08100
SOOTY TERN	STERNA FUSCATA	ABNNM08150
BLACK SKIMMER	RYNCHOPS NIGER	ABNNM14010
ROCK DOVE	COLUMBA LIVIA	ABNPB01010
MOURNING DOVE	ZENAIDA MACROURA	ABNPB04040
BLACK-BILLED CUCKOO	COCCYZUS ERYTHROPHALMUS	ABNRB02010
YELLOW-BILLED CUCKOO	COCCYZUS AMERICANUS	ABNRB02020
BARN OWL	TYTO ALBA	ABNSA01010
EASTERN SCREECH-OWL	OTUS ASIO	ABNSB01030
GREAT HORNED OWL	BUBO VIRGINIANUS	ABNSB05010
BARRED OWL	STRIX VARIA	ABNSB12020
NORTHERN SAW-WHET OWL	AEGOLIUS ACADICUS	ABNSB15020
COMMON NIGHTHAWK	CHORDEILES MINOR	ABNTA02020
CHUCK-WILL'S-WIDOW	CAPRIMULGUS CAROLINENSIS	ABNTA07010
WHIP-POOR-WILL	CAPRIMULGUS VOCIFERUS	ABNTA07070
CHIMNEY SWIFT	CHAETURA PELAGICA	ABNUA03010
RUBY-THROATED HUMMINGBIRD	ARCHILOCHUS COLUBRIS	ABNUC45010
BELTED KINGFISHER	CERYLE ALCYON	ABNXD01020
RED-HEADED WOODPECKER	MELANERPES ERYTHROCEPHALUS	ABNYF04040
RED-BELLIED WOODPECKER	MELANERPES CAROLINUS	ABNYF04170
YELLOW-BELLIED SAPSUCKER	SPHYRAPICUS VARIUS	ABNYF05010
DOWNY WOODPECKER	PICOIDES PUBESCENS	ABNYF07030
HAIRY WOODPECKER	PICOIDES VILLOSUS	ABNYF07040
RED-COCKADED WOODPECKER	PICOIDES BOREALIS	ABNYF07060
NORTHERN FLICKER	COLAPTES AURATUS	ABNYF10020
PILEATED WOODPECKER	DRYOCOPUS PILEATUS	ABNYF12020
EASTERN WOOD-PEWEE	CONTOPUS VIRENS	ABPAE32060
ACADIAN FLYCATCHER	EMPIDONAX VIRESCENS	ABPAE33020
ALDER FLYCATCHER	EMPIDONAX ALNORUM	ABPAE33030
WILLOW FLYCATCHER	EMPIDONAX TRAILLII	ABPAE33040
LEAST FLYCATCHER	EMPIDONAX MINIMUS	ABPAE33070
EASTERN PHOEBE	SAYORNIS PHOEBE	ABPAE35020

Common Name	Scientific Name	EICode
GREAT CRESTED FLYCATCHER	MYIARCHUS CRINITUS	ABPAE43070
EASTERN KINGBIRD	TYRANNUS TYRANNUS	ABPAE52060
HORNED LARK	EREMOPHILA ALPESTRIS	ABPAT02010
PURPLE MARTIN	PROGNE SUBIS	ABPAU01010
TREE SWALLOW	TACHYCINETA BICOLOR	ABPAU03010
NORTHERN ROUGH-WINGED SWALLOW	STELGIDOPTERYX SERRIPENNIS	ABPAU07010
CLIFF SWALLOW	PETROCHELIDON PYRRHONOTA	ABPAU09010
BARN SWALLOW	HIRUNDO RUSTICA	ABPAU09030
BLUE JAY	CYANOCITTA CRISTATA	ABPAV02020
AMERICAN CROW	CORVUS BRACHYRHYNCHOS	ABPAV10010
FISH CROW	CORVUS OSSIFRAGUS	ABPAV10080
COMMON RAVEN	CORVUS CORAX	ABPAV10110
BLACK-CAPPED CHICKADEE	POECILE ATRICAPILLUS	ABPAW01010
CAROLINA CHICKADEE	POECILE CAROLINENSIS	ABPAW01020
TUFTED TITMOUSE	BAEOLOPHUS BICOLOR	ABPAW01110
RED-BREASTED NUTHATCH	SITTA CANADENSIS	ABPAZ01010
WHITE-BREASTED NUTHATCH	SITTA CAROLINENSIS	ABPAZ01020
BROWN-HEADED NUTHATCH	SITTA PUSILLA	ABPAZ01040
BROWN CREEPER	CERTHIA AMERICANA	ABPBA01010
CAROLINA WREN	THRYOTHORUS LUDOVICIANUS	ABPBG06130
HOUSE WREN	TROGLODYTES AEDON	ABPBG09010
WINTER WREN	TROGLODYTES TROGLODYTES	ABPBG09050
MARSH WREN	CISTOTHORUS PALUSTRIS	ABPBG10020
GOLDEN-CROWNED KINGLET	REGULUS SATRAPA	ABPBJ05010
BLUE-GRAY GNATCATCHER	POLIOPTILA CAERULEA	ABPBJ08010
EASTERN BLUEBIRD	SIALIA SIALIS	ABPBJ15010
VEERY	CATHARUS FUSCESCENS	ABPBJ18080
HERMIT THRUSH	CATHARUS GUTTATUS	ABPBJ18110
WOOD THRUSH	HYLOCICHLA MUSTELINA	ABPBJ19010
AMERICAN ROBIN	TURDUS MIGRATORIUS	ABPBJ20170
GRAY CATBIRD	DUMETELLA CAROLINENSIS	ABPBK01010
NORTHERN MOCKINGBIRD	MIMUS POLYGLOTTOS	ABPBK03010
BROWN THRASHER	TOXOSTOMA RUFUM	ABPBK06010
CEDAR WAXWING	BOMBYCILLA CEDRORUM	ABPBN01020
LOGGERHEAD SHRIKE	LANIUS LUDOVICIANUS	ABPBR01030

Common Name	Scientific Name	EICode
EUROPEAN STARLING	STURNUS VULGARIS	ABPBT01010
WHITE-EYED VIREO	VIREO GRISEUS	ABPBW01020
BLUE-HEADED VIREO	VIREO SOLITARIUS	ABPBW01160
YELLOW-THROATED VIREO	VIREO FLAVIFRONS	ABPBW01170
WARBLING VIREO	VIREO GILVUS	ABPBW01210
RED-EYED VIREO	VIREO OLIVACEUS	ABPBW01240
BLUE-WINGED WARBLER	VERMIVORA PINUS	ABPBX01020
GOLDEN-WINGED WARBLER	VERMIVORA CHRYSOPTERA	ABPBX01030
NORTHERN PARULA	PARULA AMERICANA	ABPBX02010
YELLOW WARBLER	DENDROICA PETECHIA	ABPBX03010
CHESTNUT-SIDED WARBLER	DENDROICA PENNSYLVANICA	ABPBX03020
BLACK-THROATED BLUE WARBLER	DENDROICA CAERULESCENS	ABPBX03050
BLACK-THROATED GREEN WARBLER	DENDROICA VIRENS	ABPBX03100
BLACKBURNIAN WARBLER	DENDROICA FUSCA	ABPBX03120
YELLOW-THROATED WARBLER	DENDROICA DOMINICA	ABPBX03130
PINE WARBLER	DENDROICA PINUS	ABPBX03170
PRAIRIE WARBLER	DENDROICA DISCOLOR	ABPBX03190
CERULEAN WARBLER	DENDROICA CERULEA	ABPBX03240
BLACK-AND-WHITE WARBLER	MNIOTILTA VARIA	ABPBX05010
AMERICAN REDSTART	SETOPHAGA RUTICILLA	ABPBX06010
PROTHONOTARY WARBLER	PROTONOTARIA CITREA	ABPBX07010
WORM-EATING WARBLER	HELMITHEROS VERMIVORUS	ABPBX08010
SWAINSON'S WARBLER	LIMNOTHLYPIS SWAINSONII	ABPBX09010
OVENBIRD	SEIURUS AUROCAPILLUS	ABPBX10010
LOUISIANA WATERTHRUSH	SEIURUS MOTACILLA	ABPBX10030
KENTUCKY WARBLER	OPORORNIS FORMOSUS	ABPBX11010
COMMON YELLOWTHROAT	GEOHLYPIS TRICHAS	ABPBX12010
HOODED WARBLER	WILSONIA CITRINA	ABPBX16010
CANADA WARBLER	WILSONIA CANADENSIS	ABPBX16030
YELLOW-BREASTED CHAT	ICTERIA VIRENS	ABPBX24010
SUMMER TANAGER	PIRANGA RUBRA	ABPBX45030
SCARLET TANAGER	PIRANGA OLIVACEA	ABPBX45040
NORTHERN CARDINAL	CARDINALIS CARDINALIS	ABPBX60010
ROSE-BREASTED GROSBEEK	PHEUCTICUS LUDOVICIANUS	ABPBX61030
BLUE GROSBEEK	GUIRACA CAERULEA	ABPBX63010

Common Name	Scientific Name	EI Code
INDIGO BUNTING	PASSERINA CYANEA	ABPBX64030
PAINTED BUNTING	PASSERINA CIRIS	ABPBX64060
DICKCISSEL	SPIZA AMERICANA	ABPBX65010
EASTERN TOWHEE	PIPILO ERYTHROPHthalmus	ABPBX74030
BACHMAN'S SPARROW	AIMOPHILA AESTIVALIS	ABPBX91050
CHIPPING SPARROW	SPIZELLA PASSERINA	ABPBX94020
FIELD SPARROW	SPIZELLA PUSILLA	ABPBX94050
VESPER SPARROW	POOECETES GRAMINEUS	ABPBX95010
LARK SPARROW	CHONDESTES GRAMMACUS	ABPBX96010
SAVANNAH SPARROW	PASSERCULUS SANDWICHENSIS	ABPBX99010
GRASSHOPPER SPARROW	AMMODRAMUS SAVANNARUM	ABPBXA0020
HENSLow'S SPARROW	AMMODRAMUS HENSLowII	ABPBXA0030
SEASIDE SPARROW	AMMODRAMUS MARITIMUS	ABPBXA0060
SONG SPARROW	MELOSPIZA MELODIA	ABPBXA3010
DARK-EYED JUNCO	JUNCO HYEMALIS	ABPBXA5020
BOBOLINK	DOLICHONYX ORYZIVORUS	ABPBXA9010
RED-WINGED BLACKBIRD	AGELAIUS PHOENICEUS	ABPBXB0010
EASTERN MEADOWLARK	STURNELLA MAGNA	ABPBXB2020
BOAT-TAILED GRACKLE	QUISCALUS MAJOR	ABPBXB6060
COMMON GRACKLE	QUISCALUS QUISCULA	ABPBXB6070
BROWN-HEADED COWBIRD	MOLOTHRUS ATER	ABPBXB7030
ORCHARD ORIOLE	ICTERUS SPURIUS	ABPBXB9070
BALTIMORE ORIOLE	ICTERUS GALBULA	ABPBXB9190
HOUSE FINCH	CARPODACUS MEXICANUS	ABPBY04040
RED CROSSBILL	LOXIA CURVIROSTRA	ABPBY05010
PINE SISKIN	CARDUELIS PINUS	ABPBY06030
AMERICAN GOLDFINCH	CARDUELIS TRISTIS	ABPBY06110
HOUSE SPARROW	PASSER DOMESTICUS	ABPBZ01010
VIRGINIA OPOSSUM	DIDELPHIS VIRGINIANA	AMAAA01010
MASKED SHREW	SOREX CINEREUS	AMABA01010
SOUTHEASTERN SHREW	SOREX LONGIROSTRIS	AMABA01060
WATER SHREW	SOREX PALUSTRIS	AMABA01150
SMOKY SHREW	SOREX FUMEUS	AMABA01180
LONG-TAILED SHREW	SOREX DISPAR	AMABA01210
PYGMY SHREW	SOREX HOYI	AMABA01250

Common Name	Scientific Name	EI Code
NORTHERN SHORT-TAILED SHREW	BLARINA BREVICAUDA	AMABA03010
SOUTHERN SHORT-TAILED SHREW	BLARINA CAROLINENSIS	AMABA03020
LEAST SHREW	CRYPTOTIS PARVA	AMABA04010
HAIRY-TAILED MOLE	PARASCALOPS BREWERI	AMABB03010
EASTERN MOLE	SCALOPUS AQUATICUS	AMABB04010
STAR-NOSED MOLE	CONDYLURA CRISTATA	AMABB05010
LITTLE BROWN BAT	MYOTIS LUCIFUGUS	AMACC01010
SOUTHEASTERN BAT	MYOTIS AUSTRORIPARIUS	AMACC01030
INDIANA BAT	MYOTIS SODALIS	AMACC01100
EASTERN SMALL-FOOTED BAT	MYOTIS LEIBII	AMACC01130
NORTHERN BAT	MYOTIS SEPTENTRIONALIS	AMACC01150
EASTERN PIPISTRELLE	PIPISTRELLUS SUBFLAVUS	AMACC03020
BIG BROWN BAT	EPTESICUS FUSCUS	AMACC04010
EASTERN RED BAT	LASIURUS BOREALIS	AMACC05010
SEMINOLE BAT	LASIURUS SEMINOLUS	AMACC05020
EVENING BAT	NYCTICEIUS HUMERALIS	AMACC06010
TOWNSEND'S BIG-EARED BAT	CORYNORHINUS TOWNSENDII	AMACC08010
RAFINESQUE'S BIG-EARED BAT	CORYNORHINUS RAFINESQUII	AMACC08020
BRAZILIAN FREE-TAILED BAT	TADARIDA BRASILIENSIS	AMACD01010
MARSH RABBIT	SYLVILAGUS PALUSTRIS	AMAEB01030
EASTERN COTTONTAIL	SYLVILAGUS FLORIDANUS	AMAEB01040
APPALACHIAN COTTONTAIL	SYLVILAGUS OBSCURUS	AMAEB01090
EASTERN CHIPMUNK	TAMIAS STRIATUS	AMAFB02230
WOODCHUCK	MARMOTA MONAX	AMAFB03010
EASTERN GRAY SQUIRREL	SCIURUS CAROLINENSIS	AMAFB07010
EASTERN FOX SQUIRREL	SCIURUS NIGER	AMAFB07040
RED SQUIRREL	TAMIASCIURUS HUDSONICUS	AMAFB08010
SOUTHERN FLYING SQUIRREL	GLAUCOMYS VOLANS	AMAFB09010
NORTHERN FLYING SQUIRREL	GLAUCOMYS SABRINUS	AMAFB09020
AMERICAN BEAVER	CASTOR CANADENSIS	AMAFE01010
MARSH RICE RAT	ORYZOMYS PALUSTRIS	AMAFF01010
EASTERN HARVEST MOUSE	REITHRODONTOMYS HUMULIS	AMAFF02020
COMMON DEER MOUSE	PEROMYSCUS MANICULATUS	AMAFF03040
OLDFIELD MOUSE	PEROMYSCUS POLIONOTUS	AMAFF03060
WHITE-FOOTED MOUSE	PEROMYSCUS LEUCOPUS	AMAFF03070

Common Name	Scientific Name	EI Code
COTTON MOUSE	PEROMYSCUS GOSSYPINUS	AMAFF03080
GOLDEN MOUSE	OCHROTOMYS NUTTALLI	AMAFF04010
HISPID COTTON RAT	SIGMODON HISPIDUS	AMAFF07010
EASTERN WOODRAT	NEOTOMA FLORIDANA	AMAFF08010
ALLEGHENY WOODRAT	NEOTOMA MAGISTER	AMAFF08100
SOUTHERN RED-BACKED VOLE	CLETHRIONOMYS GAPPERI	AMAFF09020
MEADOW VOLE	MICROTUS PENNSYLVANICUS	AMAFF11010
ROCK VOLE	MICROTUS CHROTORRHINUS	AMAFF11090
WOODLAND VOLE	MICROTUS PINETORUM	AMAFF11150
MUSKRAT	ONDATRA ZIBETHICUS	AMAFF15010
SOUTHERN BOG LEMMING	SYNAPTOMYS COOPERI	AMAFF17010
BLACK RAT	RATTUS RATTUS	AMAFF21010
NORWAY RAT	RATTUS NORVEGICUS	AMAFF21020
HOUSE MOUSE	MUS MUSCULUS	AMAFF22010
MEADOW JUMPING MOUSE	ZAPUS HUDSONIUS	AMAFH01010
WOODLAND JUMPING MOUSE	NAPAEZAPUS INSIGNIS	AMAFH02010
NUTRIA	MYOCASTOR COYPUS	AMAFK01010
COYOTE	CANIS LATRANS	AMAJA01010
RED WOLF	CANIS RUFUS	AMAJA01020
RED FOX	VULPES VULPES	AMAJA03010
COMMON GRAY FOX	UROCYON CINEREOARGENTEUS	AMAJA04010
BLACK BEAR	URSUS AMERICANUS	AMAJB01010
COMMON RACCOON	PROCYON LOTOR	AMAJE02010
LEAST WEASEL	MUSTELA NIVALIS	AMAJF02020
LONG-TAILED WEASEL	MUSTELA FRENATA	AMAJF02030
MINK	MUSTELA VISON	AMAJF02050
EASTERN SPOTTED SKUNK	SPILOGALE PUTORIUS	AMAJF05010
STRIPED SKUNK	MEPHITIS MEPHITIS	AMAJF06010
NORTHERN RIVER OTTER	LUTRA CANADENSIS	AMAJF08010
BOBCAT	LYNX RUFUS	AMAJH03020
FERAL PIG	SUS SCROFA	AMALA01010
WHITE-TAILED DEER	ODOCOILEUS VIRGINIANUS	AMALC02020
FERAL HORSE	EQUUS CABALLUS	AMATA01010
LOGGERHEAD	CARETTA CARETTA	ARAAA01010
GREEN TURTLE	CHELONIA MYDAS	ARAAA02010

Common Name	Scientific Name	EICode
ATLANTIC RIDLEY	LEPIDOCHELYS KEMPII	ARAAA04010
SNAPPING TURTLE	CHELYDRA SERPENTINA	ARAAB01010
LEATHERBACK	DERMOCHELYS CORIACEA	ARAAC01010
PAINTED TURTLE	CHRYSEMYS PICTA	ARAAD01010
SPOTTED TURTLE	CLEMMYS GUTTATA	ARAAD02010
BOG TURTLE	CLEMMYS MUHLENBERGII	ARAAD02040
CHICKEN TURTLE	DEIROCHELYS RETICULARIA	ARAAD03010
DIAMONDBACK TERRAPIN	MALACLEMYS TERRAPIN	ARAAD06010
RIVER COOTER	PSEUDEMYS CONCINNA	ARAAD07020
FLORIDA COOTER	PSEUDEMYS FLORIDANA	ARAAD07030
REDBELLY TURTLE	PSEUDEMYS RUBRIVENTRIS	ARAAD07050
EASTERN BOX TURTLE	TERRAPENE CAROLINA	ARAAD08010
YELLOWBELLY SLIDER	TRACHEMYS SCRIPTA	ARAAD09010
STRIPED MUD TURTLE	KINOSTERNON BAURII	ARAAE01010
EASTERN MUD TURTLE	KINOSTERNON SUBRUBRUM	ARAAE01050
LOGGERHEAD MUSK TURTLE	STERNOTHERUS MINOR	ARAAE02030
COMMON MUSK TURTLE	STERNOTHERUS ODORATUS	ARAAE02040
SPINY SOFTSHELL	APALONE SPINIFERA	ARAAG01030
AMERICAN ALLIGATOR	ALLIGATOR MISSISSIPPIENSIS	ARABA01010
SLENDER GLASS LIZARD	OPHISAURUS ATTENUATUS	ARACB02010
EASTERN GLASS LIZARD	OPHISAURUS VENTRALIS	ARACB02030
MIMIC GLASS LIZARD	OPHISAURUS MIMICUS	ARACB02040
GREEN ANOLE	ANOLIS CAROLINENSIS	ARACF01010
TEXAS HORNED LIZARD	PHRYNOSOMA CORNUTUM	ARACF12010
EASTERN FENCE LIZARD	SCELOPORUS UNDULATUS	ARACF14130
COAL SKINK	EUMECES ANTHRACINUS	ARACH01010
FIVE-LINED SKINK	EUMECES FASCIATUS	ARACH01050
SOUTHEASTERN FIVE-LINED SKINK	EUMECES INEXPECTATUS	ARACH01070
BROADHEAD SKINK	EUMECES LATICEPS	ARACH01080
GROUND SKINK	SCINCELLA LATERALIS	ARACH03010
SIX-LINED RACERUNNER	CNEMIDOPHORUS SEXLINEATUS	ARACJ02110
WORM SNAKE	CARPHOPHIS AMOENUS	ARADB02010
SCARLET SNAKE	CEMOPHORA COCCINEA	ARADB03010
RACER	COLUBER CONSTRICTOR	ARADB07010
RINGNECK SNAKE	DIADOPHIS PUNCTATUS	ARADB10010

Common Name	Scientific Name	EICode
CORN SNAKE	ELAPHE GUTTATA	ARADB13020
RAT SNAKE	ELAPHE OBSOLETA	ARADB13030
MUD SNAKE	FARANCIA ABACURA	ARADB14010
RAINBOW SNAKE	FARANCIA ERYTROGRAMMA	ARADB14020
EASTERN HOGNOSE SNAKE	HETERODON PLATIRHINOS	ARADB17020
SOUTHERN HOGNOSE SNAKE	HETERODON SIMUS	ARADB17030
MOLE KINGSSNAKE	LAMPROPELTIS CALLIGASTER	ARADB19010
COMMON KINGSSNAKE	LAMPROPELTIS GETULA	ARADB19020
MILK SNAKE	LAMPROPELTIS TRIANGULUM	ARADB19050
COACHWHIP	MASTICOPHIS FLAGELLUM	ARADB21020
REDBELLY WATER SNAKE	NERODIA ERYTHROGASTER	ARADB22020
BANDED WATER SNAKE	NERODIA FASCIATA	ARADB22030
NORTHERN WATER SNAKE	NERODIA SIPEDON	ARADB22060
BROWN WATER SNAKE	NERODIA TAXISPILOTA	ARADB22070
ROUGH GREEN SNAKE	OPHEODRYS AESTIVUS	ARADB23010
PINE SNAKE	PITUOPHIS MELANOLEUCUS	ARADB26010
GLOSSY CRAYFISH SNAKE	REGINA RIGIDA	ARADB27030
QUEEN SNAKE	REGINA SEPTEMVITTATA	ARADB27040
PINE WOODS SNAKE	RHADINAEA FLAVILATA	ARADB28010
BLACK SWAMP SNAKE	SEMINATRIX PYGAEA	ARADB31010
BROWN SNAKE	STORERIA DEKAYI	ARADB34010
REDBELLY SNAKE	STORERIA OCCIPITOMACULATA	ARADB34030
SOUTHEASTERN CROWNED SNAKE	TANTILLA CORONATA	ARADB35020
EASTERN RIBBON SNAKE	THAMNOPHIS SAURITUS	ARADB36120
COMMON GARTER SNAKE	THAMNOPHIS SIRTALIS	ARADB36130
ROUGH EARTH SNAKE	VIRGINIA STRIATULA	ARADB39010
SMOOTH EARTH SNAKE	VIRGINIA VALERIAE	ARADB39020
EASTERN CORAL SNAKE	MICRURUS FULVIUS	ARADC02010
COPPERHEAD	AGKISTRODON CONTORTRIX	ARADE01010
COTTONMOUTH	AGKISTRODON PISCIVORUS	ARADE01020
EASTERN DIAMONDBACK RATTLESNAKE	CROTALUS ADAMANTEUS	ARADE02010
TIMBER RATTLESNAKE	CROTALUS HORRIDUS	ARADE02040
PIGMY RATTLESNAKE	SISTRURUS MILIARIUS	ARADE03020

Appendix T. Summary of the species specific assessments based on the comparisons of site lists to the NC-GAP models.

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Amph	AAAAA01070	AMBYSTOMA MABEEI	MABEE'S SALAMANDER	3	100	0	0
Amph	AAAAA01090	AMBYSTOMA MACULATUM	SPOTTED SALAMANDER	3	100	0	0
Amph	AAAAA01100	AMBYSTOMA OPACUM	MARBLED SALAMANDER	3	67	0	33
Amph	AAAAA01120	AMBYSTOMA TALPOIDEUM	MOLE SALAMANDER	3	100	0	0
Amph	AAAAA01140	AMBYSTOMA TIGRINUM	TIGER SALAMANDER	3	100	0	0
Amph	AAAAB01010	AMPHIUMA MEANS	TWO-TOED AMPHIUMA	3	67	0	33
Amph	AAAAC01010	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER	3	100	0	0
Amph	AAAAD01010	ANEIDES AENEUS	GREEN SALAMANDER	3	100	0	0
Amph	AAAAD03010	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER	3	100	0	0
Amph	AAAAD03020	DESMOGNATHUS AURICULATUS	SOUTHERN DUSKY SALAMANDER	3	100	0	0
Amph	AAAAD03040	DESMOGNATHUS FUSCUS	DUSKY SALAMANDER	3	67	0	33
Amph	AAAAD03050	DESMOGNATHUS IMITATOR	IMITATOR SALAMANDER	3	100	0	0
Amph	AAAAD03060	DESMOGNATHUS MONTICOLA	SEAL SALAMANDER	3	100	0	0
Amph	AAAAD03080	DESMOGNATHUS QUADRACULATUS	BLACKBELLY SALAMANDER	3	67	0	33
Amph	AAAAD03100	DESMOGNATHUS WRIGHTI	PIGMY SALAMANDER	3	100	0	0
Amph	AAAAD03110	DESMOGNATHUS SANTEETLAH	SANTEETLAH DUSKY SALAMANDER	3	100	0	0
Amph	AAAAD03130	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER	3	33	0	67
Amph	AAAAD03140	DESMOGNATHUS OCOEE	OCOEE SALAMANDER	3	67	0	33
Amph	AAAAD03150	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER	3	100	0	0
Amph	AAAAD05020	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER	3	100	0	0
Amph	AAAAD05040	EURYCEA LONGICAUDA	LONGTAIL SALAMANDER	3	67	33	0
Amph	AAAAD05090	EURYCEA QUADRIDIGITATA	DWARF SALAMANDER	3	67	0	33
Amph	AAAAD05140	EURYCEA CIRRIGERA	SOUTHERN TWO-LINED SALAMANDER	3	100	0	0
Amph	AAAAD05150	EURYCEA WILDERAE	BLUE RIDGE TWO-LINED SALAMANDER	3	67	0	33
Amph	AAAAD05290	EURYCEA GUTTOLINEATA	THREE-LINED SALAMANDER	3	33	0	67

Appendix U. Comparisons between the NC-GAP predicted distribution models and the species lists for eleven North Carolina sites. For eight of the sites a bird list was available, for three sites lists for all four taxa (amphibians, birds, mammals, and reptiles) were available and used to assess the models. The column model represents the presence/absence prediction from the NC-GAP model, the column site represents presence/absence based on the species list.

Site	EI Code	Scientific Name	Common Name	Model	Site	Comparison
CHattNS	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	1	Agree Present
CHattNS	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	1	Agree Present
CHattNS	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
CHattNS	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
CHattNS	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	0	Commission
CHattNS	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
CHattNS	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
CHattNS	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	1	Agree Present
CHattNS	ABNGA06030	EGRETTA THULA	SNOWY EGRET	1	1	Agree Present
CHattNS	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
CHattNS	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	1	1	Agree Present
CHattNS	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
CHattNS	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
CHattNS	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
CHattNS	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	1	Agree Present
CHattNS	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	1	Agree Present
CHattNS	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	1	Agree Present
CHattNS	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
CHattNS	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
CHattNS	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present
CHattNS	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
CHattNS	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	1	Agree Present
CHattNS	ABNJB10160	ANAS STREPERA	GADWALL	1	1	Agree Present
CHattNS	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
CHattNS	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	0	Commission
CHattNS	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	0	Commission
CHattNS	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
CHattNS	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
CHattNS	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	1	Agree Present
CHattNS	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	1	Agree Present
CHattNS	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	0	Agree Absent
CHattNS	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CHattNS	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
CHattNS	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	0	Agree Absent
CHattNS	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	0	Commission
CHattNS	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	1	Agree Present
CHattNS	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
CHattNS	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	1	1	Agree Present
CHattNS	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
CHattNS	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	0	0	Agree Absent
CHattNS	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
CHattNS	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	1	Agree Present
CHattNS	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	1	Agree Present
CHattNS	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
CHattNS	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	1	Agree Present
CHattNS	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	1	Agree Present
CHattNS	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	1	Omission
CHattNS	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	1	1	Agree Present
CHattNS	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	1	1	Agree Present
CHattNS	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
CHattNS	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	1	1	Agree Present
CHattNS	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	1	Agree Present
CHattNS	ABNNF02010	CATOPTOPHORUS SEMIPALMATUS	WILLET	1	1	Agree Present
CHattNS	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
CHattNS	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present
CHattNS	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	1	Agree Present
CHattNS	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	1	Agree Present
CHattNS	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	1	Agree Present
CHattNS	ABNNM08020	STERNA CASPIA	CASPIAN TERN	1	1	Agree Present
CHattNS	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	1	Agree Present
CHattNS	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	1	Agree Present
CHattNS	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	1	Agree Present
CHattNS	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	1	Agree Present
CHattNS	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	1	Agree Present
CHattNS	ABNNM08150	STERNA FUSCATA	SOOTY TERN	1	1	Agree Present
CHattNS	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	1	Agree Present
CHattNS	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CHattNS	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
CHattNS	ABNRB02010	COCCYZUS ERYTHROPHALMUS	BLACK-BILLED CUCKOO	0	1	Omission
CHattNS	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
CHattNS	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
CHattNS	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
CHattNS	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
CHattNS	ABNSB12020	STRIX VARIA	BARRED OWL	0	0	Agree Absent
CHattNS	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
CHattNS	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
CHattNS	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
CHattNS	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	0	Commission
CHattNS	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
CHattNS	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
CHattNS	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
CHattNS	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	0	1	Omission
CHattNS	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	0	0	Agree Absent
CHattNS	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	0	Agree Absent
CHattNS	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
CHattNS	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	0	0	Agree Absent
CHattNS	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	0	Agree Absent
CHattNS	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
CHattNS	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
CHattNS	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
CHattNS	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	0	Commission
CHattNS	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
CHattNS	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
CHattNS	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
CHattNS	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	0	0	Agree Absent
CHattNS	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
CHattNS	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
CHattNS	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	0	0	Agree Absent
CHattNS	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
CHattNS	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
CHattNS	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	0	Commission
CHattNS	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CHattNS	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
CHattNS	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
CHattNS	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
CHattNS	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
CHattNS	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
CHattNS	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
CHattNS	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
CHattNS	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	0	Commission
CHattNS	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
CHattNS	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	0	Commission
CHattNS	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	0	0	Agree Absent
CHattNS	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
CHattNS	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
CHattNS	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	0	Commission
CHattNS	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
CHattNS	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
CHattNS	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
CHattNS	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
CHattNS	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	0	0	Agree Absent
CHattNS	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
CHattNS	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
CHattNS	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	0	0	Agree Absent
CHattNS	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	0	0	Agree Absent
CHattNS	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
CHattNS	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
CHattNS	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
CHattNS	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	0	1	Omission
CHattNS	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent
CHattNS	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	0	Commission
CHattNS	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
CHattNS	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
CHattNS	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	0	0	Agree Absent
CHattNS	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
CHattNS	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
CHattNS	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent

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CHattNS	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
CHattNS	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	0	1	Omission
CHattNS	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
CHattNS	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
CHattNS	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
CHattNS	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
CHattNS	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
CHattNS	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	0	1	Omission
CHattNS	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
CHattNS	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
CHattNS	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
CHattNS	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	1	Agree Present
CHattNS	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	0	1	Omission
CHattNS	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	0	1	Omission
CHattNS	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	0	0	Agree Absent
CHattNS	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	0	0	Agree Absent
CHattNS	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	0	0	Agree Absent
CHattNS	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	0	0	Agree Absent
CHattNS	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
CHattNS	ABPBX12010	GEOHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
CHattNS	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
CHattNS	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
CHattNS	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
CHattNS	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	0	Commission
CHattNS	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	0	0	Agree Absent
CHattNS	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
CHattNS	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
CHattNS	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
CHattNS	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
CHattNS	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	1	0	Commission
CHattNS	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	0	0	Agree Absent
CHattNS	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
CHattNS	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
CHattNS	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	0	0	Agree Absent
CHattNS	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present

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CHattNS	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
CHattNS	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	1	Omission
CHattNS	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
CHattNS	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	0	Agree Absent
CHattNS	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	0	Agree Absent
CHattNS	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	1	Agree Present
CHattNS	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	1	Agree Present
CHattNS	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
CHattNS	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	1	Omission
CHattNS	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
CHattNS	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
CHattNS	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	1	Agree Present
CHattNS	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
CHattNS	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
CHattNS	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
CHattNS	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	1	Omission
CHattNS	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
CHattNS	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
CHattNS	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
CHattNS	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	0	0	Agree Absent
CHattNS	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
CLookNS	AAAAA01070	AMBYSTOMA MABEEI	MABEE'S SALAMANDER	0	0	Agree Absent
CLookNS	AAAAA01090	AMBYSTOMA MACULATUM	SPOTTED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAA01100	AMBYSTOMA OPACUM	MARbled SALAMANDER	1	0	Commission
CLookNS	AAAAA01120	AMBYSTOMA TALPOIDEUM	MOLE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAA01140	AMBYSTOMA TIGRINUM	TIGER SALAMANDER	0	0	Agree Absent
CLookNS	AAAAB01010	AMPHIUMA MEANS	TWO-TOED AMPHIUMA	1	0	Commission
CLookNS	AAAAC01010	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER	0	0	Agree Absent
CLookNS	AAAAD01010	ANEIDES AENEUS	GREEN SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03010	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03020	DESMOGNATHUS AURICULATUS	SOUTHERN DUSKY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03040	DESMOGNATHUS FUSCUS	DUSKY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03050	DESMOGNATHUS IMITATOR	IMITATOR SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03060	DESMOGNATHUS MONTICOLA	SEAL SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03080	DESMOGNATHUS QUADRAMACULATUS	BLACKBELLY SALAMANDER	0	0	Agree Absent

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CLookNS	AAAAD03100	DESMOGNATHUS WRIGHTI	PIGMY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03110	DESMOGNATHUS SANTEETLAH	SANTEETLAH DUSKY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03130	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03140	DESMOGNATHUS OCOEE	OCOEE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD03150	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD05020	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD05040	EURYCEA LONGICAUDA	LONGTAIL SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD05090	EURYCEA QUADRIDIGITATA	DWARF SALAMANDER	1	0	Commission
CLookNS	AAAAD05140	EURYCEA CIRRIGERA	SOUTHERN TWO-LINED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD05150	EURYCEA WILDERAE	BLUE RIDGE TWO-LINED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD05290	EURYCEA GUTTOLINEATA	THREE-LINED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD06020	GYRINOPHILUS PORPHYRITICUS	SPRING SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD08010	HEMIDACTYLIUM SCUTATUM	FOUR-TOED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD10010	LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12020	PLETHODON CINEREUS	REDBACK SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12070	PLETHODON GLUTINOSUS	SLIMY SALAMANDER	1	0	Commission
CLookNS	AAAAD12090	PLETHODON JORDANI	JORDAN'S SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12150	PLETHODON RICHMONDI	RAVINE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12160	PLETHODON SERRATUS	SOUTHERN REDBACK SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12220	PLETHODON WEHRLEI	WEHRLE'S SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12230	PLETHODON WELLERI	WELLER'S SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12240	PLETHODON YONAHLOSSEE	YONAHLOSSEE SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12250	PLETHODON AUREOLUS	TELLICO SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12300	PLETHODON TEYAHALEE	SOUTHERN APPALACHIAN SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD12370	PLETHODON VENTRALIS	SOUTHERN ZIGZAG SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD13010	PSEUDOTRITON MONTANUS	MUD SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD13020	PSEUDOTRITON RUBER	RED SALAMANDER	0	0	Agree Absent
CLookNS	AAAAD14010	STEREOCHILUS MARGINATUS	MANY-LINED SALAMANDER	1	0	Commission
CLookNS	AAAAE01030	NECTURUS LEWISI	NEUSE RIVER WATERDOG	0	0	Agree Absent
CLookNS	AAAAE01040	NECTURUS MACULOSUS	MUDPUPPY	0	0	Agree Absent
CLookNS	AAAAE01050	NECTURUS PUNCTATUS	DWARF WATERDOG	1	0	Commission
CLookNS	AAAAF01030	NOTOPHTHALMUS VIRIDESCENS	EASTERN NEWT	1	0	Commission
CLookNS	AAAAG02010	SIREN INTERMEDIA	LESSER SIREN	1	0	Commission
CLookNS	AAAAG02020	SIREN LACERTINA	GREATER SIREN	1	0	Commission
CLookNS	AAABB01020	BUFO AMERICANUS	AMERICAN TOAD	0	0	Agree Absent

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CLookNS	AAABB01130	BUFO QUERCICUS	OAK TOAD	1	0	Commission
CLookNS	AAABB01160	BUFO TERRESTRIS	SOUTHERN TOAD	1	0	Commission
CLookNS	AAABB01210	BUFO FOWLERI	FOWLER'S TOAD	1	0	Commission
CLookNS	AAABC01010	ACRIS CREPITANS	NORTHERN CRICKET FROG	0	0	Agree Absent
CLookNS	AAABC01020	ACRIS GRYLLUS	SOUTHERN CRICKET FROG	1	0	Commission
CLookNS	AAABC02010	HYLA ANDERSONII	PINE BARRENS TREEFROG	0	0	Agree Absent
CLookNS	AAABC02050	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG	1	0	Commission
CLookNS	AAABC02060	HYLA CINEREA	GREEN TREEFROG	1	1	Agree Present
CLookNS	AAABC02090	HYLA FEMORALIS	PINE WOODS TREEFROG	1	0	Commission
CLookNS	AAABC02100	HYLA GRATIOSA	BARKING TREEFROG	1	0	Commission
CLookNS	AAABC02120	HYLA SQUIRELLA	SQUIRREL TREEFROG	1	1	Agree Present
CLookNS	AAABC02130	HYLA VERSICOLOR	GRAY TREEFROG	0	0	Agree Absent
CLookNS	AAABC05020	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG	0	0	Agree Absent
CLookNS	AAABC05040	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG	0	0	Agree Absent
CLookNS	AAABC05050	PSEUDACRIS ORNATA	ORNATE CHORUS FROG	0	0	Agree Absent
CLookNS	AAABC05070	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG	0	0	Agree Absent
CLookNS	AAABC05090	PSEUDACRIS CRUCIFER	SPRING PEEPER	1	0	Commission
CLookNS	AAABC05110	PSEUDACRIS OCULARIS	LITTLE GRASS FROG	1	0	Commission
CLookNS	AAABE01010	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD	1	1	Agree Present
CLookNS	AAABF01040	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT	1	1	Agree Present
CLookNS	AAABH01070	RANA CATESBEIANA	BULLFROG	1	0	Commission
CLookNS	AAABH01090	RANA CLAMITANS	GREEN FROG	1	0	Commission
CLookNS	AAABH01160	RANA PALUSTRIS	PICKEREL FROG	1	0	Commission
CLookNS	AAABH01200	RANA SYLVATICA	WOOD FROG	0	0	Agree Absent
CLookNS	AAABH01220	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG	1	1	Agree Present
CLookNS	AAABH01230	RANA VIRGATIPES	CARPENTER FROG	1	0	Commission
CLookNS	AAABH01270	RANA CAPITO	GOPHER FROG	0	0	Agree Absent
CLookNS	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	1	Agree Present
CLookNS	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	1	Agree Present
CLookNS	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
CLookNS	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
CLookNS	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	1	Agree Present
CLookNS	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
CLookNS	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
CLookNS	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	0	Commission

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CLookNS	ABNGA06030	EGRETTA THULA	SNOWY EGRET	1	1	Agree Present
CLookNS	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
CLookNS	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	1	1	Agree Present
CLookNS	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
CLookNS	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	0	Commission
CLookNS	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
CLookNS	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	1	Agree Present
CLookNS	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	1	Agree Present
CLookNS	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	1	Agree Present
CLookNS	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
CLookNS	ABNJB09010	AIX SPONSA	WOOD DUCK	1	0	Commission
CLookNS	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present
CLookNS	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
CLookNS	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	1	Agree Present
CLookNS	ABNJB10160	ANAS STREPERA	GADWALL	1	1	Agree Present
CLookNS	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	1	Agree Present
CLookNS	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
CLookNS	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
CLookNS	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
CLookNS	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
CLookNS	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	1	Agree Present
CLookNS	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	1	Agree Present
CLookNS	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	1	Omission
CLookNS	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	0	1	Omission
CLookNS	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
CLookNS	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	1	Omission
CLookNS	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
CLookNS	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	1	Agree Present
CLookNS	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	1	Omission
CLookNS	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	1	1	Agree Present
CLookNS	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
CLookNS	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	0	0	Agree Absent
CLookNS	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
CLookNS	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	1	Agree Present
CLookNS	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	1	Agree Present

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CLookNS	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
CLookNS	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	1	Agree Present
CLookNS	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	1	Agree Present
CLookNS	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	1	Omission
CLookNS	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	1	1	Agree Present
CLookNS	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	1	1	Agree Present
CLookNS	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
CLookNS	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	1	1	Agree Present
CLookNS	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	1	Agree Present
CLookNS	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	1	1	Agree Present
CLookNS	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
CLookNS	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present
CLookNS	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	1	Agree Present
CLookNS	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	1	Agree Present
CLookNS	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	1	Agree Present
CLookNS	ABNNM08020	STERNA CASPIA	CASPIAN TERN	1	1	Agree Present
CLookNS	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	1	Agree Present
CLookNS	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	1	Agree Present
CLookNS	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	0	Commission
CLookNS	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	1	Agree Present
CLookNS	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	1	Agree Present
CLookNS	ABNNM08150	STERNA FUSCATA	SOOTY TERN	1	1	Agree Present
CLookNS	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	1	Agree Present
CLookNS	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
CLookNS	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
CLookNS	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
CLookNS	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
CLookNS	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
CLookNS	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	0	Commission
CLookNS	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	0	Commission
CLookNS	ABNSB12020	STRIX VARIA	BARRED OWL	1	0	Commission
CLookNS	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	1	Omission
CLookNS	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
CLookNS	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
CLookNS	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
CLookNS	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
CLookNS	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	0	Commission
CLookNS	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
CLookNS	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
CLookNS	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	1	Omission
CLookNS	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
CLookNS	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	0	Commission
CLookNS	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	0	Agree Absent
CLookNS	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
CLookNS	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	0	Commission
CLookNS	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
CLookNS	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	0	1	Omission
CLookNS	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
CLookNS	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
CLookNS	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
CLookNS	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	0	1	Omission
CLookNS	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
CLookNS	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
CLookNS	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	0	0	Agree Absent
CLookNS	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
CLookNS	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
CLookNS	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
CLookNS	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	1	Agree Present
CLookNS	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
CLookNS	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
CLookNS	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
CLookNS	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
CLookNS	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
CLookNS	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
CLookNS	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
CLookNS	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
CLookNS	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	1	Omission
CLookNS	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	0	Commission
CLookNS	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	1	Omission
CLookNS	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
CLookNS	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
CLookNS	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	1	Omission
CLookNS	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
CLookNS	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	1	Omission
CLookNS	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
CLookNS	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
CLookNS	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	1	Omission
CLookNS	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	1	Omission
CLookNS	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	0	0	Agree Absent
CLookNS	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
CLookNS	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
CLookNS	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
CLookNS	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
CLookNS	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	0	1	Omission
CLookNS	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	1	1	Agree Present
CLookNS	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
CLookNS	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
CLookNS	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	1	Omission
CLookNS	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	0	1	Omission
CLookNS	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
CLookNS	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
CLookNS	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
CLookNS	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
CLookNS	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	0	1	Omission
CLookNS	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	0	1	Omission
CLookNS	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	1	Omission
CLookNS	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	1	Omission
CLookNS	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	1	Agree Present
CLookNS	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	1	Omission
CLookNS	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
CLookNS	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
CLookNS	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
CLookNS	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent

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CLookNS	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	1	Agree Present
CLookNS	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	0	1	Omission
CLookNS	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	0	1	Omission
CLookNS	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
CLookNS	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	0	0	Agree Absent
CLookNS	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
CLookNS	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	0	0	Agree Absent
CLookNS	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	0	0	Agree Absent
CLookNS	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
CLookNS	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
CLookNS	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	1	Omission
CLookNS	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
CLookNS	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
CLookNS	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	0	0	Agree Absent
CLookNS	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
CLookNS	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	1	Omission
CLookNS	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
CLookNS	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
CLookNS	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	1	1	Agree Present
CLookNS	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
CLookNS	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
CLookNS	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
CLookNS	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
CLookNS	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
CLookNS	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
CLookNS	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	1	Omission
CLookNS	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	1	Omission
CLookNS	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	1	Omission
CLookNS	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	1	0	Commission
CLookNS	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	1	Agree Present
CLookNS	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	1	Agree Present
CLookNS	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	1	Omission
CLookNS	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	1	Omission
CLookNS	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
CLookNS	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	1	Agree Present
CLookNS	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
CLookNS	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
CLookNS	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
CLookNS	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	1	Omission
CLookNS	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	1	Agree Present
CLookNS	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
CLookNS	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	1	Omission
CLookNS	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
CLookNS	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
CLookNS	AMAAA01010	DIDELPHIS VIRGINIANA	VIRGINIA OPOSSUM	1	1	Agree Present
CLookNS	AMABA01010	SOREX CINEREUS	MASKED SHREW	0	0	Agree Absent
CLookNS	AMABA01060	SOREX LONGIROSTRIS	SOUTHEASTERN SHREW	1	0	Commission
CLookNS	AMABA01150	SOREX PALUSTRIS	WATER SHREW	0	0	Agree Absent
CLookNS	AMABA01180	SOREX FUMEUS	SMOKY SHREW	0	0	Agree Absent
CLookNS	AMABA01210	SOREX DISPAR	LONG-TAILED SHREW	0	0	Agree Absent
CLookNS	AMABA01250	SOREX HOYI	PYGMY SHREW	0	0	Agree Absent
CLookNS	AMABA03010	BLARINA BREVICAUDA	NORTHERN SHORT-TAILED SHREW	1	1	Agree Present
CLookNS	AMABA03020	BLARINA CAROLINENSIS	SOUTHERN SHORT-TAILED SHREW	1	0	Commission
CLookNS	AMABA04010	CRYPTOTIS PARVA	LEAST SHREW	1	1	Agree Present
CLookNS	AMABB03010	PARASCALOPS BREWERI	HAIRY-TAILED MOLE	0	0	Agree Absent
CLookNS	AMABB04010	SCALOPUS AQUATICUS	EASTERN MOLE	1	1	Agree Present
CLookNS	AMABB05010	CONDYLURA CRISTATA	STAR-NOSED MOLE	0	0	Agree Absent
CLookNS	AMACC01010	MYOTIS LUCIFUGUS	LITTLE BROWN BAT	0	0	Agree Absent
CLookNS	AMACC01030	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN BAT	0	0	Agree Absent
CLookNS	AMACC01100	MYOTIS SODALIS	INDIANA BAT	0	0	Agree Absent
CLookNS	AMACC01130	MYOTIS LEIBII	EASTERN SMALL-FOOTED BAT	0	0	Agree Absent
CLookNS	AMACC01150	MYOTIS SEPTENTRIONALIS	NORTHERN BAT	0	0	Agree Absent
CLookNS	AMACC03020	PIPISTRELLUS SUBFLAVUS	EASTERN PIPISTRELLE	1	0	Commission
CLookNS	AMACC04010	EPTESICUS FUSCUS	BIG BROWN BAT	1	0	Commission
CLookNS	AMACC05010	LASIURUS BOREALIS	EASTERN RED BAT	1	0	Commission
CLookNS	AMACC05020	LASIURUS SEMINOLUS	SEMINOLE BAT	1	0	Commission
CLookNS	AMACC06010	NYCTICEIUS HUMERALIS	EVENING BAT	1	0	Commission
CLookNS	AMACC08010	CORYNORHINUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT	0	0	Agree Absent
CLookNS	AMACC08020	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	AMACD01010	TADARIDA BRASILIENSIS	BRAZILIAN FREE-TAILED BAT	1	0	Commission
CLookNS	AMAEB01030	SYLVILAGUS PALUSTRIS	MARSH RABBIT	1	1	Agree Present
CLookNS	AMAEB01040	SYLVILAGUS FLORIDANUS	EASTERN COTTONTAIL	1	1	Agree Present
CLookNS	AMAEB01090	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL	0	0	Agree Absent
CLookNS	AMAFB02230	TAMIAS STRIATUS	EASTERN CHIPMUNK	0	0	Agree Absent
CLookNS	AMAFB03010	MARMOTA MONAX	WOODCHUCK	0	0	Agree Absent
CLookNS	AMAFB07010	SCIURUS CAROLINENSIS	EASTERN GRAY SQUIRREL	1	0	Commission
CLookNS	AMAFB07040	SCIURUS NIGER	EASTERN FOX SQUIRREL	0	0	Agree Absent
CLookNS	AMAFB08010	TAMIASCIURUS HUDSONICUS	RED SQUIRREL	0	0	Agree Absent
CLookNS	AMAFB09010	GLAUCOMYS VOLANS	SOUTHERN FLYING SQUIRREL	1	0	Commission
CLookNS	AMAFB09020	GLAUCOMYS SABRINUS	NORTHERN FLYING SQUIRREL	0	0	Agree Absent
CLookNS	AMAFE01010	CASTOR CANADENSIS	AMERICAN BEAVER	1	0	Commission
CLookNS	AMAFF01010	ORYZOMYS PALUSTRIS	MARSH RICE RAT	1	1	Agree Present
CLookNS	AMAFF02020	REITHRODONTOMYS HUMULIS	EASTERN HARVEST MOUSE	1	0	Commission
CLookNS	AMAFF03040	PEROMYSCUS MANICULATUS	COMMON DEER MOUSE	0	0	Agree Absent
CLookNS	AMAFF03060	PEROMYSCUS POLIONOTUS	OLDFIELD MOUSE	0	0	Agree Absent
CLookNS	AMAFF03070	PEROMYSCUS LEUCOPUS	WHITE-FOOTED MOUSE	0	0	Agree Absent
CLookNS	AMAFF03080	PEROMYSCUS GOSSYPINUS	COTTON MOUSE	1	0	Commission
CLookNS	AMAFF04010	OCHROTOMYS NUTTALLI	GOLDEN MOUSE	1	0	Commission
CLookNS	AMAFF07010	SIGMODON HISPIDUS	HISPID COTTON RAT	1	0	Commission
CLookNS	AMAFF08010	NEOTOMA FLORIDANA	EASTERN WOODRAT	1	0	Commission
CLookNS	AMAFF08100	NEOTOMA MAGISTER	ALLEGHENY WOODRAT	0	0	Agree Absent
CLookNS	AMAFF09020	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE	0	0	Agree Absent
CLookNS	AMAFF11010	MICROTUS PENNSYLVANICUS	MEADOW VOLE	1	0	Commission
CLookNS	AMAFF11090	MICROTUS CHROTORRHINUS	ROCK VOLE	0	0	Agree Absent
CLookNS	AMAFF11150	MICROTUS PINETORUM	WOODLAND VOLE	1	0	Commission
CLookNS	AMAFF15010	ONDATRA ZIBETHICUS	MUSKRAT	1	0	Commission
CLookNS	AMAFF17010	SYNAPTOMYS COOPERI	SOUTHERN BOG LEMMING	0	0	Agree Absent
CLookNS	AMAFF21010	RATTUS RATTUS	BLACK RAT	1	0	Commission
CLookNS	AMAFF21020	RATTUS NORVEGICUS	NORWAY RAT	1	1	Agree Present
CLookNS	AMAFF22010	MUS MUSCULUS	HOUSE MOUSE	1	1	Agree Present
CLookNS	AMAFH01010	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE	0	0	Agree Absent
CLookNS	AMAFH02010	NAPAEOZAPUS INSIGNIS	WOODLAND JUMPING MOUSE	0	0	Agree Absent
CLookNS	AMAFK01010	MYOCASTOR COYPUS	NUTRIA	1	1	Agree Present
CLookNS	AMAJA01010	CANIS LATRANS	COYOTE	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	AMAJA01020	CANIS RUFUS	RED WOLF	0	0	Agree Absent
CLookNS	AMAJA03010	VULPES VULPES	RED FOX	1	0	Commission
CLookNS	AMAJA04010	UROCYON CINEREOARGENTEUS	COMMON GRAY FOX	1	0	Commission
CLookNS	AMAJB01010	URSUS AMERICANUS	BLACK BEAR	1	0	Commission
CLookNS	AMAJE02010	PROCYON LOTOR	COMMON RACCOON	1	1	Agree Present
CLookNS	AMAJF02020	MUSTELA NIVALIS	LEAST WEASEL	0	0	Agree Absent
CLookNS	AMAJF02030	MUSTELA FRENATA	LONG-TAILED WEASEL	1	0	Commission
CLookNS	AMAJF02050	MUSTELA VISON	MINK	1	0	Commission
CLookNS	AMAJF05010	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK	0	0	Agree Absent
CLookNS	AMAJF06010	MEPHITIS MEPHITIS	STRIPED SKUNK	1	0	Commission
CLookNS	AMAJF08010	LUTRA CANADENSIS	NORTHERN RIVER OTTER	1	0	Commission
CLookNS	AMAJH03020	LYNX RUFUS	BOBCAT	1	0	Commission
CLookNS	AMALA01010	SUS SCROFA	FERAL PIG	1	0	Commission
CLookNS	AMALC02020	ODOCOILEUS VIRGINIANUS	WHITE-TAILED DEER	1	0	Commission
CLookNS	AMATA01010	EQUUS CABALLUS	FERAL HORSE	1	0	Commission
CLookNS	ARAAA01010	CARETTA CARETTA	LOGGERHEAD	1	1	Agree Present
CLookNS	ARAAA02010	CHELONIA MYDAS	GREEN TURTLE	1	1	Agree Present
CLookNS	ARAAA04010	LEPIDOCHELYS KEMPII	ATLANTIC RIDLEY	1	0	Commission
CLookNS	ARAAB01010	CHELYDRA SERPENTINA	SNAPPING TURTLE	1	1	Agree Present
CLookNS	ARAAC01010	DERMOCHELYS CORIACEA	LEATHERBACK	1	1	Agree Present
CLookNS	ARAAD01010	CHRYSEMYS PICTA	PAINTED TURTLE	1	0	Commission
CLookNS	ARAAD02010	CLEMMYS GUTTATA	SPOTTED TURTLE	1	1	Agree Present
CLookNS	ARAAD02040	CLEMMYS MUHLENBERGII	BOG TURTLE	0	0	Agree Absent
CLookNS	ARAAD03010	DEIROCHELYS RETICULARIA	CHICKEN TURTLE	1	0	Commission
CLookNS	ARAAD06010	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN	1	1	Agree Present
CLookNS	ARAAD07020	PSEUDEMYNS CONCINNA	RIVER COOTER	1	0	Commission
CLookNS	ARAAD07030	PSEUDEMYNS FLORIDANA	FLORIDA COOTER	1	0	Commission
CLookNS	ARAAD07050	PSEUDEMYNS RUBRIVENTRIS	REDBELLY TURTLE	0	0	Agree Absent
CLookNS	ARAAD08010	TERRAPENE CAROLINA	EASTERN BOX TURTLE	1	0	Commission
CLookNS	ARAAD09010	TRACHEMYS SCRIPTA	YELLOWBELLY SLIDER	1	0	Commission
CLookNS	ARAAE01010	KINOSTERNON BAURII	STRIPED MUD TURTLE	1	0	Commission
CLookNS	ARAAE01050	KINOSTERNON SUBRUBRUM	EASTERN MUD TURTLE	1	1	Agree Present
CLookNS	ARAAE02030	STERNOTHERUS MINOR	LOGGERHEAD MUSK TURTLE	0	0	Agree Absent
CLookNS	ARAAE02040	STERNOTHERUS ODORATUS	COMMON MUSK TURTLE	1	0	Commission
CLookNS	ARAAG01030	APALONE SPINIFERA	SPINY SOFTSHELL	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CLookNS	ARABA01010	ALLIGATOR MISSISSIPPIENSIS	AMERICAN ALLIGATOR	1	0	Commission
CLookNS	ARACB02010	OPHISAURUS ATTENUATUS	SLENDER GLASS LIZARD	1	0	Commission
CLookNS	ARACB02030	OPHISAURUS VENTRALIS	EASTERN GLASS LIZARD	1	1	Agree Present
CLookNS	ARACB02040	OPHISAURUS MIMICUS	MIMIC GLASS LIZARD	0	0	Agree Absent
CLookNS	ARACF01010	ANOLIS CAROLINENSIS	GREEN ANOLE	1	1	Agree Present
CLookNS	ARACF12010	PHRYNOSOMA CORNUTUM	TEXAS HORNED LIZARD	0	0	Agree Absent
CLookNS	ARACF14130	SCELOPORUS UNDULATUS	EASTERN FENCE LIZARD	1	0	Commission
CLookNS	ARACH01010	EUMECES ANTHRACINUS	COAL SKINK	0	0	Agree Absent
CLookNS	ARACH01050	EUMECES FASCIATUS	FIVE-LINED SKINK	1	0	Commission
CLookNS	ARACH01070	EUMECES INEXPECTATUS	SOUTHEASTERN FIVE-LINED SKINK	1	1	Agree Present
CLookNS	ARACH01080	EUMECES LATICEPS	BROADHEAD SKINK	1	0	Commission
CLookNS	ARACH03010	SCINCELLA LATERALIS	GROUND SKINK	1	1	Agree Present
CLookNS	ARACJ02110	CNEMIDOPHORUS SEXLINEATUS	SIX-LINED RACERUNNER	1	1	Agree Present
CLookNS	ARADB02010	CARPPOPHIS AMOENUS	WORM SNAKE	1	0	Commission
CLookNS	ARADB03010	CEMOPHORA COCCINEA	SCARLET SNAKE	1	0	Commission
CLookNS	ARADB07010	COLUBER CONSTRICTOR	RACER	1	1	Agree Present
CLookNS	ARADB10010	DIADOPHIS PUNCTATUS	RINGNECK SNAKE	1	0	Commission
CLookNS	ARADB13020	ELAPHE GUTTATA	CORN SNAKE	1	0	Commission
CLookNS	ARADB13030	ELAPHE OBSOLETA	RAT SNAKE	1	1	Agree Present
CLookNS	ARADB14010	FARANCIA ABACURA	MUD SNAKE	0	0	Agree Absent
CLookNS	ARADB14020	FARANCIA ERYTROGRAMMA	RAINBOW SNAKE	1	0	Commission
CLookNS	ARADB17020	HETERODON PLATIRHINUS	EASTERN HOGNOSE SNAKE	1	1	Agree Present
CLookNS	ARADB17030	HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE	1	0	Commission
CLookNS	ARADB19010	LAMPROPELTIS CALLIGASTER	MOLE KINGSSNAKE	1	0	Commission
CLookNS	ARADB19020	LAMPROPELTIS GETULA	COMMON KINGSSNAKE	1	1	Agree Present
CLookNS	ARADB19050	LAMPROPELTIS TRIANGULUM	MILK SNAKE	1	0	Commission
CLookNS	ARADB21020	MASTICOPHIS FLAGELLUM	COACHWHIP	1	0	Commission
CLookNS	ARADB22020	NERODIA ERYTHROGASTER	REDBELLY WATER SNAKE	1	0	Commission
CLookNS	ARADB22030	NERODIA FASCIATA	BANDED WATER SNAKE	1	1	Agree Present
CLookNS	ARADB22060	NERODIA SIPEDON	NORTHERN WATER SNAKE	1	1	Agree Present
CLookNS	ARADB22070	NERODIA TAXISPILOTA	BROWN WATER SNAKE	1	0	Commission
CLookNS	ARADB23010	OPHEODRYS AESTIVUS	ROUGH GREEN SNAKE	1	1	Agree Present
CLookNS	ARADB26010	PITUOPHIS MELANOLEUCUS	PINE SNAKE	0	0	Agree Absent
CLookNS	ARADB27030	REGINA RIGIDA	GLOSSY CRAYFISH SNAKE	1	0	Commission
CLookNS	ARADB27040	REGINA SEPTEMVITTATA	QUEEN SNAKE	0	0	Agree Absent

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CLookNS	ARADB28010	RHADINAEA FLAVILATA	PINE WOODS SNAKE	1	1	Agree Present
CLookNS	ARADB31010	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE	1	0	Commission
CLookNS	ARADB34010	STORERIA DEKAYI	BROWN SNAKE	1	1	Agree Present
CLookNS	ARADB34030	STORERIA OCCIPITOMACULATA	REDBELLY SNAKE	1	0	Commission
CLookNS	ARADB35020	TANTILLA CORONATA	SOUTHEASTERN CROWNED SNAKE	1	0	Commission
CLookNS	ARADB36120	THAMNOPHIS SAURITUS	EASTERN RIBBON SNAKE	1	1	Agree Present
CLookNS	ARADB36130	THAMNOPHIS SIRTALIS	COMMON GARTER SNAKE	1	0	Commission
CLookNS	ARADB39010	VIRGINIA STRIATULA	ROUGH EARTH SNAKE	1	0	Commission
CLookNS	ARADB39020	VIRGINIA VALERIAE	SMOOTH EARTH SNAKE	1	0	Commission
CLookNS	ARADC02010	MICRURUS FULVIUS	EASTERN CORAL SNAKE	0	0	Agree Absent
CLookNS	ARADE01010	AGKISTRODON CONTORTRIX	COPPERHEAD	1	0	Commission
CLookNS	ARADE01020	AGKISTRODON PISCIVORUS	COTTONMOUTH	1	1	Agree Present
CLookNS	ARADE02010	CROTALUS ADAMANTEUS	EASTERN DIAMONDBACK RATTLESNAKE	1	0	Commission
CLookNS	ARADE02040	CROTALUS HORRIDUS	TIMBER RATTLESNAKE	1	0	Commission
CLookNS	ARADE03020	SISTRURUS MILIARIUS	PIGMY RATTLESNAKE	1	1	Agree Present
CedarNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	0	Commission
CedarNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	0	Commission
CedarNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
CedarNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
CedarNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	1	Agree Present
CedarNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
CedarNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
CedarNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	0	Commission
CedarNWR	ABNGA06030	EGRETTA THULA	SNOWY EGRET	1	1	Agree Present
CedarNWR	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
CedarNWR	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	1	1	Agree Present
CedarNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
CedarNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
CedarNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
CedarNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	0	Commission
CedarNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	0	Commission
CedarNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	0	Commission
CedarNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	0	Commission
CedarNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
CedarNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present

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CedarNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
CedarNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	0	Commission
CedarNWR	ABNJB10160	ANAS STREPERA	GADWALL	1	0	Commission
CedarNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
CedarNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
CedarNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
CedarNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
CedarNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
CedarNWR	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	0	Commission
CedarNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	1	Agree Present
CedarNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	0	Agree Absent
CedarNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	0	0	Agree Absent
CedarNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
CedarNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	0	Agree Absent
CedarNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
CedarNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	1	Agree Present
CedarNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
CedarNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
CedarNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
CedarNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	0	Commission
CedarNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
CedarNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	1	Agree Present
CedarNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	1	Agree Present
CedarNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
CedarNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	1	Agree Present
CedarNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	0	Commission
CedarNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	1	0	Commission
CedarNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
CedarNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
CedarNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
CedarNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	1	1	Agree Present
CedarNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	0	Commission
CedarNWR	ABNNF02010	CATOPTOPHORUS SEMIPALMATUS	WILLET	1	1	Agree Present
CedarNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	0	Commission
CedarNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present

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CedarNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	0	Commission
CedarNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	0	Commission
CedarNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	0	Commission
CedarNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	1	0	Commission
CedarNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	1	Agree Present
CedarNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	0	Commission
CedarNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	1	Agree Present
CedarNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	0	Commission
CedarNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	1	Agree Present
CedarNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
CedarNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	1	Agree Present
CedarNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	0	Commission
CedarNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
CedarNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
CedarNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
CedarNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
CedarNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
CedarNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
CedarNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
CedarNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
CedarNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
CedarNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
CedarNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
CedarNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
CedarNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
CedarNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
CedarNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
CedarNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
CedarNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	0	Agree Absent
CedarNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
CedarNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
CedarNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	1	0	Commission
CedarNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
CedarNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	0	Commission
CedarNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
CedarNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
CedarNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
CedarNWR	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
CedarNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
CedarNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	0	0	Agree Absent
CedarNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
CedarNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
CedarNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	0	0	Agree Absent
CedarNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
CedarNWR	ABPAU03010	TACHYICINETA BICOLOR	TREE SWALLOW	1	0	Commission
CedarNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
CedarNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	0	Commission
CedarNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
CedarNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	0	Commission
CedarNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
CedarNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
CedarNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
CedarNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
CedarNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
CedarNWR	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
CedarNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
CedarNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	0	Commission
CedarNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	1	Agree Present
CedarNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
CedarNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
CedarNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
CedarNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
CedarNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
CedarNWR	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
CedarNWR	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	0	Commission
CedarNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	0	Commission
CedarNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
CedarNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
CedarNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
CedarNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	0	Commission

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CedarNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
CedarNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
CedarNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
CedarNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	0	0	Agree Absent
CedarNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	1	0	Commission
CedarNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
CedarNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
CedarNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
CedarNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	0	Commission
CedarNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
CedarNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
CedarNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
CedarNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
CedarNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
CedarNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	0	0	Agree Absent
CedarNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
CedarNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
CedarNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
CedarNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
CedarNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
CedarNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
CedarNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
CedarNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
CedarNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
CedarNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	0	Commission
CedarNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
CedarNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
CedarNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	0	Commission
CedarNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	0	Commission
CedarNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	0	Commission
CedarNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
CedarNWR	ABPBX12010	GEOETHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
CedarNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
CedarNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
CedarNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	0	Commission

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CedarNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	0	Commission
CedarNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	0	0	Agree Absent
CedarNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
CedarNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
CedarNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	0	Commission
CedarNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
CedarNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	1	1	Agree Present
CedarNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
CedarNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
CedarNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	1	0	Commission
CedarNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	0	Commission
CedarNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
CedarNWR	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
CedarNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
CedarNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
CedarNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	0	Agree Absent
CedarNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	1	0	Commission
CedarNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	1	Agree Present
CedarNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	0	Commission
CedarNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
CedarNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
CedarNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
CedarNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
CedarNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	1	Agree Present
CedarNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
CedarNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	0	Commission
CedarNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
CedarNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	0	Agree Absent
CedarNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
CedarNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
CedarNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
CedarNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	0	Commission
CedarNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
GFMP	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	0	0	Agree Absent
GFMP	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	0	0	Agree Absent
GFMP	ABNFE01010	ANHINGA ANHINGA	ANHINGA	0	0	Agree Absent
GFMP	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	0	0	Agree Absent
GFMP	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	0	0	Agree Absent
GFMP	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	0	0	Agree Absent
GFMP	ABNGA04040	ARDEA ALBA	GREAT EGRET	0	0	Agree Absent
GFMP	ABNGA06030	EGRETTA THULA	SNOWY EGRET	0	0	Agree Absent
GFMP	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	0	0	Agree Absent
GFMP	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	0	0	Agree Absent
GFMP	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	0	0	Agree Absent
GFMP	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	0	Commission
GFMP	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	0	0	Agree Absent
GFMP	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	0	0	Agree Absent
GFMP	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	0	0	Agree Absent
GFMP	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	0	0	Agree Absent
GFMP	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	0	0	Agree Absent
GFMP	ABNJB09010	AIX SPONSA	WOOD DUCK	0	1	Omission
GFMP	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	0	0	Agree Absent
GFMP	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
GFMP	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	0	0	Agree Absent
GFMP	ABNJB10160	ANAS STREPERA	GADWALL	0	0	Agree Absent
GFMP	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	0	0	Agree Absent
GFMP	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	0	Commission
GFMP	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	0	Commission
GFMP	ABNKC01010	PANDION HALIAETUS	OSPREY	0	0	Agree Absent
GFMP	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
GFMP	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	0	0	Agree Absent
GFMP	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	0	0	Agree Absent
GFMP	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	1	1	Agree Present
GFMP	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	1	Agree Present
GFMP	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	0	1	Omission
GFMP	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	1	1	Agree Present
GFMP	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
GFMP	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	0	Commission
GFMP	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
GFMP	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	1	1	Agree Present
GFMP	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	1	Agree Present
GFMP	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
GFMP	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	0	0	Agree Absent
GFMP	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	0	0	Agree Absent
GFMP	ABNME05020	RALLUS ELEGANS	KING RAIL	0	0	Agree Absent
GFMP	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	0	0	Agree Absent
GFMP	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	0	0	Agree Absent
GFMP	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	0	Agree Absent
GFMP	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
GFMP	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
GFMP	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
GFMP	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
GFMP	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	0	0	Agree Absent
GFMP	ABNNF02010	CATOPTOPHORUS SEMIPALMATUS	WILLET	0	0	Agree Absent
GFMP	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
GFMP	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	0	0	Agree Absent
GFMP	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	0	0	Agree Absent
GFMP	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	0	0	Agree Absent
GFMP	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	0	0	Agree Absent
GFMP	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
GFMP	ABNNM08030	STERNA MAXIMA	ROYAL TERN	0	0	Agree Absent
GFMP	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	0	0	Agree Absent
GFMP	ABNNM08070	STERNA HIRUNDO	COMMON TERN	0	0	Agree Absent
GFMP	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	0	0	Agree Absent
GFMP	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	0	0	Agree Absent
GFMP	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
GFMP	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	0	0	Agree Absent
GFMP	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
GFMP	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
GFMP	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	1	1	Agree Present
GFMP	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
GFMP	ABNSA01010	TYTO ALBA	BARN OWL	1	0	Commission
GFMP	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
GFMP	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
GFMP	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	1	1	Agree Present
GFMP	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	0	1	Omission
GFMP	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	0	0	Agree Absent
GFMP	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
GFMP	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
GFMP	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
GFMP	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	0	1	Omission
GFMP	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	0	0	Agree Absent
GFMP	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	0	0	Agree Absent
GFMP	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	1	1	Agree Present
GFMP	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
GFMP	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
GFMP	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	0	Agree Absent
GFMP	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
GFMP	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
GFMP	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
GFMP	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
GFMP	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	1	1	Agree Present
GFMP	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
GFMP	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	1	1	Agree Present
GFMP	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	1	Agree Present
GFMP	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
GFMP	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	0	1	Omission
GFMP	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	0	Commission
GFMP	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
GFMP	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
GFMP	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
GFMP	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	0	0	Agree Absent
GFMP	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
GFMP	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
GFMP	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
GFMP	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	0	0	Agree Absent
GFMP	ABPAV10110	CORVUS CORAX	COMMON RAVEN	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	1	Omission
GFMP	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
GFMP	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
GFMP	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	1	1	Agree Present
GFMP	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present
GFMP	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	0	0	Agree Absent
GFMP	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	1	1	Agree Present
GFMP	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
GFMP	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
GFMP	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	1	1	Agree Present
GFMP	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	0	0	Agree Absent
GFMP	ABPB05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	1	1	Agree Present
GFMP	ABPB08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
GFMP	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
GFMP	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	1	1	Agree Present
GFMP	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	1	1	Agree Present
GFMP	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
GFMP	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
GFMP	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
GFMP	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
GFMP	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
GFMP	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	1	Agree Present
GFMP	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent
GFMP	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
GFMP	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
GFMP	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	1	1	Agree Present
GFMP	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present
GFMP	ABPBW01210	VIREO GILVUS	WARBLING VIREO	1	0	Commission
GFMP	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
GFMP	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
GFMP	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	1	1	Agree Present
GFMP	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
GFMP	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
GFMP	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	1	1	Agree Present
GFMP	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	1	Agree Present
GFMP	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	1	1	Agree Present
GFMP	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	0	0	Agree Absent
GFMP	ABPBX03170	DENDROICA PINUS	PINE WARBLER	0	1	Omission
GFMP	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	0	Commission
GFMP	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	1	0	Commission
GFMP	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	1	Agree Present
GFMP	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	1	Agree Present
GFMP	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	0	0	Agree Absent
GFMP	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	1	Agree Present
GFMP	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	0	1	Omission
GFMP	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
GFMP	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	1	Agree Present
GFMP	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
GFMP	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
GFMP	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
GFMP	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	1	1	Agree Present
GFMP	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
GFMP	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	0	1	Omission
GFMP	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	1	Agree Present
GFMP	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
GFMP	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	1	1	Agree Present
GFMP	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	0	1	Omission
GFMP	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
GFMP	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
GFMP	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	0	0	Agree Absent
GFMP	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
GFMP	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
GFMP	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	0	1	Omission
GFMP	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
GFMP	ABPBX95010	POECETES GRAMINEUS	VESPER SPARROW	1	1	Agree Present
GFMP	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
GFMP	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	1	Omission
GFMP	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	1	1	Agree Present
GFMP	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GFMP	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	0	0	Agree Absent
GFMP	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	1	Agree Present
GFMP	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	1	1	Agree Present
GFMP	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	1	0	Commission
GFMP	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
GFMP	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
GFMP	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	0	0	Agree Absent
GFMP	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
GFMP	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
GFMP	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	0	1	Omission
GFMP	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	1	1	Agree Present
GFMP	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	0	0	Agree Absent
GFMP	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	1	1	Agree Present
GFMP	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	1	0	Commission
GFMP	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
GFMP	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
GSMNP	AAAAA01070	AMBYSTOMA MABEEI	MABEE'S SALAMANDER	0	0	Agree Absent
GSMNP	AAAAA01090	AMBYSTOMA MACULATUM	SPOTTED SALAMANDER	1	1	Agree Present
GSMNP	AAAAA01100	AMBYSTOMA OPACUM	MARbled SALAMANDER	1	1	Agree Present
GSMNP	AAAAA01120	AMBYSTOMA TALPOIDEUM	MOLE SALAMANDER	0	0	Agree Absent
GSMNP	AAAAA01140	AMBYSTOMA TIGRINUM	TIGER SALAMANDER	0	0	Agree Absent
GSMNP	AAAAB01010	AMPHIUMA MEANS	TWO-TOED AMPHIUMA	0	0	Agree Absent
GSMNP	AAAAC01010	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER	1	1	Agree Present
GSMNP	AAAAD01010	ANEIDES AENEUS	GREEN SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03010	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03020	DESMOGNATHUS AURICULATUS	SOUTHERN DUSKY SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD03040	DESMOGNATHUS FUSCUS	DUSKY SALAMANDER	1	0	Commission
GSMNP	AAAAD03050	DESMOGNATHUS IMITATOR	IMITATOR SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03060	DESMOGNATHUS MONTICOLA	SEAL SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03080	DESMOGNATHUS QUADRAMACULATUS	BLACKBELLY SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03100	DESMOGNATHUS WRIGHTI	PIGMY SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03110	DESMOGNATHUS SANTEETLAH	SANTEETLAH DUSKY SALAMANDER	1	1	Agree Present
GSMNP	AAAAD03130	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER	1	0	Commission
GSMNP	AAAAD03140	DESMOGNATHUS OCOEE	OCOEE SALAMANDER	1	0	Commission
GSMNP	AAAAD03150	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	AAAAD05020	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER	1	1	Agree Present
GSMNP	AAAAD05040	EURYCEA LONGICAUDA	LONGTAIL SALAMANDER	1	1	Agree Present
GSMNP	AAAAD05090	EURYCEA QUADRIDIGITATA	DWARF SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD05140	EURYCEA CIRRIGERA	SOUTHERN TWO-LINED SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD05150	EURYCEA WILDERAE	BLUE RIDGE TWO-LINED SALAMANDER	1	1	Agree Present
GSMNP	AAAAD05290	EURYCEA GUTTOLINEATA	THREE-LINED SALAMANDER	1	0	Commission
GSMNP	AAAAD06020	GYRINOPHILUS PORPHYRITICUS	SPRING SALAMANDER	1	1	Agree Present
GSMNP	AAAAD08010	HEMIDACTYLIUM SCUTATUM	FOUR-TOED SALAMANDER	1	1	Agree Present
GSMNP	AAAAD10010	LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER	1	0	Commission
GSMNP	AAAAD12020	PLETHODON CINEREUS	REDBACK SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD12070	PLETHODON GLUTINOSUS	SLIMY SALAMANDER	1	1	Agree Present
GSMNP	AAAAD12090	PLETHODON JORDANI	JORDAN'S SALAMANDER	1	1	Agree Present
GSMNP	AAAAD12150	PLETHODON RICHMONDI	RAVINE SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD12160	PLETHODON SERRATUS	SOUTHERN REDBACK SALAMANDER	1	1	Agree Present
GSMNP	AAAAD12220	PLETHODON WEHRLEI	WEHRLE'S SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD12230	PLETHODON WELLERI	WELLER'S SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD12240	PLETHODON YONAHLOSSEE	YONAHLOSSEE SALAMANDER	0	0	Agree Absent
GSMNP	AAAAD12250	PLETHODON AUREOLUS	TELLICO SALAMANDER	1	0	Commission
GSMNP	AAAAD12300	PLETHODON TEYAHALEE	SOUTHERN APPALACHIAN SALAMANDER	1	1	Agree Present
GSMNP	AAAAD12370	PLETHODON VENTRALIS	SOUTHERN ZIGZAG SALAMANDER	1	0	Commission
GSMNP	AAAAD13010	PSEUDOTRITON MONTANUS	MUD SALAMANDER	1	0	Commission
GSMNP	AAAAD13020	PSEUDOTRITON RUBER	RED SALAMANDER	1	1	Agree Present
GSMNP	AAAAD14010	STEREOCHILUS MARGINATUS	MANY-LINED SALAMANDER	0	0	Agree Absent
GSMNP	AAAAE01030	NECTURUS LEWISI	NEUSE RIVER WATERDOG	0	0	Agree Absent
GSMNP	AAAAE01040	NECTURUS MACULOSUS	MUDPUPPY	0	1	Omission
GSMNP	AAAAE01050	NECTURUS PUNCTATUS	DWARF WATERDOG	0	0	Agree Absent
GSMNP	AAAAF01030	NOTOPHTHALMUS VIRIDESCENS	EASTERN NEWT	1	1	Agree Present
GSMNP	AAAAG02010	SIREN INTERMEDIA	LESSER SIREN	0	0	Agree Absent
GSMNP	AAAAG02020	SIREN LACERTINA	GREATER SIREN	0	0	Agree Absent
GSMNP	AAABB01020	BUFO AMERICANUS	AMERICAN TOAD	1	1	Agree Present
GSMNP	AAABB01130	BUFO QUERCICUS	OAK TOAD	0	0	Agree Absent
GSMNP	AAABB01160	BUFO TERRESTRIS	SOUTHERN TOAD	0	0	Agree Absent
GSMNP	AAABB01210	BUFO FOWLERI	FOWLER'S TOAD	1	0	Commission
GSMNP	AAABC01010	ACRIS CREPITANS	NORTHERN CRICKET FROG	1	1	Agree Present
GSMNP	AAABC01020	ACRIS GRILLUS	SOUTHERN CRICKET FROG	0	0	Agree Absent

Site	EI Code	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	AAABC02010	HYLA ANDERSONII	PINE BARRENS TREEFROG	0	0	Agree Absent
GSMNP	AAABC02050	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG	1	1	Agree Present
GSMNP	AAABC02060	HYLA CINEREA	GREEN TREEFROG	0	0	Agree Absent
GSMNP	AAABC02090	HYLA FEMORALIS	PINE WOODS TREEFROG	0	0	Agree Absent
GSMNP	AAABC02100	HYLA GRATIOSA	BARKING TREEFROG	0	0	Agree Absent
GSMNP	AAABC02120	HYLA SQUIRELLA	SQUIRREL TREEFROG	0	0	Agree Absent
GSMNP	AAABC02130	HYLA VERSICOLOR	GRAY TREEFROG	0	0	Agree Absent
GSMNP	AAABC05020	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG	0	0	Agree Absent
GSMNP	AAABC05040	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG	0	0	Agree Absent
GSMNP	AAABC05050	PSEUDACRIS ORNATA	ORNATE CHORUS FROG	0	0	Agree Absent
GSMNP	AAABC05070	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG	0	1	Omission
GSMNP	AAABC05090	PSEUDACRIS CRUCIFER	SPRING PEEPER	1	1	Agree Present
GSMNP	AAABC05110	PSEUDACRIS OCULARIS	LITTLE GRASS FROG	0	0	Agree Absent
GSMNP	AAABE01010	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD	0	1	Omission
GSMNP	AAABF01040	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT	0	0	Agree Absent
GSMNP	AAABH01070	RANA CATESBEIANA	BULLFROG	1	1	Agree Present
GSMNP	AAABH01090	RANA CLAMITANS	GREEN FROG	1	1	Agree Present
GSMNP	AAABH01160	RANA PALUSTRIS	PICKEREL FROG	1	1	Agree Present
GSMNP	AAABH01200	RANA SYLVATICA	WOOD FROG	1	1	Agree Present
GSMNP	AAABH01220	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG	0	1	Omission
GSMNP	AAABH01230	RANA VIRGATIPES	CARPENTER FROG	0	0	Agree Absent
GSMNP	AAABH01270	RANA CAPITO	GOPHER FROG	0	0	Agree Absent
GSMNP	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	0	1	Omission
GSMNP	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	0	0	Agree Absent
GSMNP	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	0	1	Omission
GSMNP	ABNFE01010	ANHINGA ANHINGA	ANHINGA	0	0	Agree Absent
GSMNP	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	0	1	Omission
GSMNP	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	0	1	Omission
GSMNP	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	0	1	Omission
GSMNP	ABNGA04040	ARDEA ALBA	GREAT EGRET	0	1	Omission
GSMNP	ABNGA06030	EGRETТА THULA	SNOWY EGRET	0	0	Agree Absent
GSMNP	ABNGA06040	EGRETТА CAERULEA	LITTLE BLUE HERON	0	1	Omission
GSMNP	ABNGA06050	EGRETТА TRICOLOR	TRICOLORED HERON	0	0	Agree Absent
GSMNP	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	0	0	Agree Absent
GSMNP	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	0	1	Omission
GSMNP	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	0	1	Omission
GSMNP	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	0	0	Agree Absent
GSMNP	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	0	0	Agree Absent
GSMNP	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
GSMNP	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
GSMNP	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	0	0	Agree Absent
GSMNP	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	0	Commission
GSMNP	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	0	0	Agree Absent
GSMNP	ABNJB10160	ANAS STREPERA	GADWALL	0	0	Agree Absent
GSMNP	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	0	0	Agree Absent
GSMNP	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
GSMNP	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
GSMNP	ABNKC01010	PANDION HALIAETUS	OSPREY	0	1	Omission
GSMNP	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	1	Omission
GSMNP	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	0	1	Omission
GSMNP	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	0	0	Agree Absent
GSMNP	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	1	1	Agree Present
GSMNP	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	1	Agree Present
GSMNP	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	0	Commission
GSMNP	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	1	1	Agree Present
GSMNP	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
GSMNP	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	1	Agree Present
GSMNP	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	1	0	Commission
GSMNP	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
GSMNP	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	1	1	Agree Present
GSMNP	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	1	Agree Present
GSMNP	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
GSMNP	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	0	0	Agree Absent
GSMNP	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	0	0	Agree Absent
GSMNP	ABNME05020	RALLUS ELEGANS	KING RAIL	0	1	Omission
GSMNP	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	0	1	Omission
GSMNP	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	0	1	Omission
GSMNP	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	1	Omission
GSMNP	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
GSMNP	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
GSMNP	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
GSMNP	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	0	0	Agree Absent
GSMNP	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	0	1	Omission
GSMNP	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
GSMNP	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	0	1	Omission
GSMNP	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	0	0	Agree Absent
GSMNP	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	0	0	Agree Absent
GSMNP	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	0	0	Agree Absent
GSMNP	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
GSMNP	ABNNM08030	STERNA MAXIMA	ROYAL TERN	0	0	Agree Absent
GSMNP	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	0	0	Agree Absent
GSMNP	ABNNM08070	STERNA HIRUNDO	COMMON TERN	0	0	Agree Absent
GSMNP	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	0	0	Agree Absent
GSMNP	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	0	0	Agree Absent
GSMNP	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	1	Omission
GSMNP	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	0	0	Agree Absent
GSMNP	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
GSMNP	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
GSMNP	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	1	1	Agree Present
GSMNP	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
GSMNP	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
GSMNP	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
GSMNP	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
GSMNP	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
GSMNP	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	1	1	Agree Present
GSMNP	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	0	1	Omission
GSMNP	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	0	1	Omission
GSMNP	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
GSMNP	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
GSMNP	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
GSMNP	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
GSMNP	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
GSMNP	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	1	1	Agree Present
GSMNP	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
GSMNP	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
GSMNP	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	1	Omission
GSMNP	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
GSMNP	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
GSMNP	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
GSMNP	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
GSMNP	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	1	1	Agree Present
GSMNP	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	1	1	Agree Present
GSMNP	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	1	1	Agree Present
GSMNP	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	1	Agree Present
GSMNP	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
GSMNP	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
GSMNP	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	1	Agree Present
GSMNP	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
GSMNP	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
GSMNP	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
GSMNP	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	0	Commission
GSMNP	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	0	Commission
GSMNP	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
GSMNP	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
GSMNP	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	0	0	Agree Absent
GSMNP	ABPAV10110	CORVUS CORAX	COMMON RAVEN	1	1	Agree Present
GSMNP	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	1	1	Agree Present
GSMNP	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
GSMNP	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
GSMNP	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	1	1	Agree Present
GSMNP	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present
GSMNP	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	0	0	Agree Absent
GSMNP	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	1	1	Agree Present
GSMNP	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
GSMNP	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
GSMNP	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	1	1	Agree Present
GSMNP	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	0	1	Omission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	1	1	Agree Present
GSMNP	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
GSMNP	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
GSMNP	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	1	1	Agree Present
GSMNP	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	1	0	Commission
GSMNP	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
GSMNP	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
GSMNP	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	0	Commission
GSMNP	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
GSMNP	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
GSMNP	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	1	Agree Present
GSMNP	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	1	Omission
GSMNP	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	0	Commission
GSMNP	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
GSMNP	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	1	1	Agree Present
GSMNP	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present
GSMNP	ABPBW01210	VIREO GILVUS	WARBLING VIREO	1	0	Commission
GSMNP	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
GSMNP	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	1	1	Agree Present
GSMNP	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	1	1	Agree Present
GSMNP	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
GSMNP	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
GSMNP	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	1	1	Agree Present
GSMNP	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	1	1	Agree Present
GSMNP	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	1	Agree Present
GSMNP	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	1	1	Agree Present
GSMNP	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
GSMNP	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
GSMNP	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
GSMNP	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	1	1	Agree Present
GSMNP	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	1	Agree Present
GSMNP	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	1	Agree Present
GSMNP	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	0	1	Omission
GSMNP	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	1	Agree Present
GSMNP	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
GSMNP	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	1	Agree Present
GSMNP	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	1	Agree Present
GSMNP	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
GSMNP	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
GSMNP	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	1	1	Agree Present
GSMNP	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
GSMNP	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
GSMNP	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	1	Agree Present
GSMNP	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
GSMNP	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	1	1	Agree Present
GSMNP	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
GSMNP	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
GSMNP	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
GSMNP	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	0	0	Agree Absent
GSMNP	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
GSMNP	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	1	Omission
GSMNP	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
GSMNP	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
GSMNP	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	1	Omission
GSMNP	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	1	Omission
GSMNP	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
GSMNP	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	1	1	Agree Present
GSMNP	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	1	Omission
GSMNP	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	0	0	Agree Absent
GSMNP	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	1	Agree Present
GSMNP	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	1	1	Agree Present
GSMNP	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	1	1	Agree Present
GSMNP	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
GSMNP	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
GSMNP	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	0	0	Agree Absent
GSMNP	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
GSMNP	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
GSMNP	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
GSMNP	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
GSMNP	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	1	1	Agree Present
GSMNP	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	1	1	Agree Present
GSMNP	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
GSMNP	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
GSMNP	AMAAA01010	DIDELPHIS VIRGINIANA	VIRGINIA OPOSSUM	1	1	Agree Present
GSMNP	AMABA01010	SOREX CINEREUS	MASKED SHREW	1	1	Agree Present
GSMNP	AMABA01060	SOREX LONGIROSTRIS	SOUTHEASTERN SHREW	1	1	Agree Present
GSMNP	AMABA01150	SOREX PALUSTRIS	WATER SHREW	1	1	Agree Present
GSMNP	AMABA01180	SOREX FUMEUS	SMOKY SHREW	1	1	Agree Present
GSMNP	AMABA01210	SOREX DISPAR	LONG-TAILED SHREW	1	1	Agree Present
GSMNP	AMABA01250	SOREX HOYI	PYGMY SHREW	1	1	Agree Present
GSMNP	AMABA03010	BLARINA BREVICAUDA	NORTHERN SHORT-TAILED SHREW	1	1	Agree Present
GSMNP	AMABA03020	BLARINA CAROLINENSIS	SOUTHERN SHORT-TAILED SHREW	0	0	Agree Absent
GSMNP	AMABA04010	CRYPTOTIS PARVA	LEAST SHREW	1	1	Agree Present
GSMNP	AMABB03010	PARASCALOPS BREWERI	HAIRY-TAILED MOLE	1	1	Agree Present
GSMNP	AMABB04010	SCALOPUS AQUATICUS	EASTERN MOLE	1	1	Agree Present
GSMNP	AMABB05010	CONDYLURA CRISTATA	STAR-NOSED MOLE	1	1	Agree Present
GSMNP	AMACC01010	MYOTIS LUCIFUGUS	LITTLE BROWN BAT	1	1	Agree Present
GSMNP	AMACC01030	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN BAT	0	0	Agree Absent
GSMNP	AMACC01100	MYOTIS SODALIS	INDIANA BAT	1	1	Agree Present
GSMNP	AMACC01130	MYOTIS LEIBII	EASTERN SMALL-FOOTED BAT	1	1	Agree Present
GSMNP	AMACC01150	MYOTIS SEPTENTRIONALIS	NORTHERN BAT	1	0	Commission
GSMNP	AMACC03020	PIPISTRELLUS SUBFLAVUS	EASTERN PIPISTRELLE	1	1	Agree Present
GSMNP	AMACC04010	EPTESICUS FUSCUS	BIG BROWN BAT	1	1	Agree Present
GSMNP	AMACC05010	LASIURUS BOREALIS	EASTERN RED BAT	1	1	Agree Present
GSMNP	AMACC05020	LASIURUS SEMINOLUS	SEMINOLE BAT	0	0	Agree Absent
GSMNP	AMACC06010	NYCTICEIUS HUMERALIS	EVENING BAT	1	0	Commission
GSMNP	AMACC08010	CORYNORHINUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT	0	0	Agree Absent
GSMNP	AMACC08020	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT	1	1	Agree Present
GSMNP	AMACD01010	TADARIDA BRASILIENSIS	BRAZILIAN FREE-TAILED BAT	0	0	Agree Absent
GSMNP	AMAEB01030	SYLVILAGUS PALUSTRIS	MARSH RABBIT	0	0	Agree Absent
GSMNP	AMAEB01040	SYLVILAGUS FLORIDANUS	EASTERN COTTONTAIL	1	1	Agree Present
GSMNP	AMAEB01090	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL	1	0	Commission
GSMNP	AMAFB02230	TAMIAS STRIATUS	EASTERN CHIPMUNK	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	AMAFB03010	MARMOTA MONAX	WOODCHUCK	1	1	Agree Present
GSMNP	AMAFB07010	SCIURUS CAROLINENSIS	EASTERN GRAY SQUIRREL	1	1	Agree Present
GSMNP	AMAFB07040	SCIURUS NIGER	EASTERN FOX SQUIRREL	0	1	Omission
GSMNP	AMAFB08010	TAMIASCIURUS HUDSONICUS	RED SQUIRREL	1	1	Agree Present
GSMNP	AMAFB09010	GLAUCOMYS VOLANS	SOUTHERN FLYING SQUIRREL	1	1	Agree Present
GSMNP	AMAFB09020	GLAUCOMYS SABRINUS	NORTHERN FLYING SQUIRREL	1	1	Agree Present
GSMNP	AMAFE01010	CASTOR CANADENSIS	AMERICAN BEAVER	1	1	Agree Present
GSMNP	AMAFF01010	ORYZOMYS PALUSTRIS	MARSH RICE RAT	0	1	Omission
GSMNP	AMAFF02020	REITHRODONTOMYS HUMULIS	EASTERN HARVEST MOUSE	1	1	Agree Present
GSMNP	AMAFF03040	PEROMYSCUS MANICULATUS	COMMON DEER MOUSE	1	0	Commission
GSMNP	AMAFF03060	PEROMYSCUS POLIONOTUS	OLDFIELD MOUSE	0	0	Agree Absent
GSMNP	AMAFF03070	PEROMYSCUS LEUCOPUS	WHITE-FOOTED MOUSE	1	1	Agree Present
GSMNP	AMAFF03080	PEROMYSCUS GOSSYPINUS	COTTON MOUSE	0	1	Omission
GSMNP	AMAFF04010	OCHROTOMYS NUTTALLI	GOLDEN MOUSE	1	1	Agree Present
GSMNP	AMAFF07010	SIGMODON HISPIDUS	HISPID COTTON RAT	1	1	Agree Present
GSMNP	AMAFF08010	NEOTOMA FLORIDANA	EASTERN WOODRAT	1	0	Commission
GSMNP	AMAFF08100	NEOTOMA MAGISTER	ALLEGHENY WOODRAT	0	0	Agree Absent
GSMNP	AMAFF09020	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE	1	1	Agree Present
GSMNP	AMAFF11010	MICROTUS PENNSYLVANICUS	MEADOW VOLE	1	1	Agree Present
GSMNP	AMAFF11090	MICROTUS CHROTORRHINUS	ROCK VOLE	1	1	Agree Present
GSMNP	AMAFF11150	MICROTUS PINETORUM	WOODLAND VOLE	1	1	Agree Present
GSMNP	AMAFF15010	ONDATRA ZIBETHICUS	MUSKRAT	1	1	Agree Present
GSMNP	AMAFF17010	SYNAPTOMYS COOPERI	SOUTHERN BOG LEMMING	1	1	Agree Present
GSMNP	AMAFF21010	RATTUS RATTUS	BLACK RAT	0	1	Omission
GSMNP	AMAFF21020	RATTUS NORVEGICUS	NORWAY RAT	1	1	Agree Present
GSMNP	AMAFF22010	MUS MUSCULUS	HOUSE MOUSE	1	1	Agree Present
GSMNP	AMAFH01010	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE	1	1	Agree Present
GSMNP	AMAFH02010	NAPAEOZAPUS INSIGNIS	WOODLAND JUMPING MOUSE	1	1	Agree Present
GSMNP	AMAFK01010	MYOCASTOR COYPUS	NUTRIA	0	0	Agree Absent
GSMNP	AMAJA01010	CANIS LATRANS	COYOTE	1	1	Agree Present
GSMNP	AMAJA01020	CANIS RUFUS	RED WOLF	0	1	Omission
GSMNP	AMAJA03010	VULPES VULPES	RED FOX	1	0	Commission
GSMNP	AMAJA04010	UROCYON CINEREOARGENTEUS	COMMON GRAY FOX	1	1	Agree Present
GSMNP	AMAJB01010	URSUS AMERICANUS	BLACK BEAR	1	1	Agree Present
GSMNP	AMAJE02010	PROCYON LOTOR	COMMON RACCOON	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	AMAJF02020	MUSTELA NIVALIS	LEAST WEASEL	1	0	Commission
GSMNP	AMAJF02030	MUSTELA FRENATA	LONG-TAILED WEASEL	1	1	Agree Present
GSMNP	AMAJF02050	MUSTELA VISON	MINK	1	1	Agree Present
GSMNP	AMAJF05010	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK	1	1	Agree Present
GSMNP	AMAJF06010	MEPHITIS MEPHITIS	STRIPED SKUNK	1	1	Agree Present
GSMNP	AMAJF08010	LUTRA CANADENSIS	NORTHERN RIVER OTTER	1	0	Commission
GSMNP	AMAJH03020	LYNX RUFUS	BOBCAT	1	1	Agree Present
GSMNP	AMALA01010	SUS SCROFA	FERAL PIG	1	1	Agree Present
GSMNP	AMALC02020	ODOCOILEUS VIRGINIANUS	WHITE-TAILED DEER	1	1	Agree Present
GSMNP	AMATA01010	EQUUS CABALLUS	FERAL HORSE	0	0	Agree Absent
GSMNP	ARAAA01010	CARETTA CARETTA	LOGGERHEAD	0	0	Agree Absent
GSMNP	ARAAA02010	CHELONIA MYDAS	GREEN TURTLE	0	0	Agree Absent
GSMNP	ARAAA04010	LEPIDOCHELYS KEMPII	ATLANTIC RIDLEY	0	0	Agree Absent
GSMNP	ARAAB01010	CHELYDRA SERPENTINA	SNAPPING TURTLE	1	1	Agree Present
GSMNP	ARAAC01010	DERMOCHELYS CORIACEA	LEATHERBACK	0	0	Agree Absent
GSMNP	ARAAD01010	CHRYSEMYS PICTA	PAINTED TURTLE	1	1	Agree Present
GSMNP	ARAAD02010	CLEMMYS GUTTATA	SPOTTED TURTLE	0	0	Agree Absent
GSMNP	ARAAD02040	CLEMMYS MUHLENBERGII	BOG TURTLE	1	0	Commission
GSMNP	ARAAD03010	DEIROCHELYS RETICULARIA	CHICKEN TURTLE	0	0	Agree Absent
GSMNP	ARAAD06010	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN	0	0	Agree Absent
GSMNP	ARAAD07020	PSEUDEMYMYS CONCINNA	RIVER COOTER	0	0	Agree Absent
GSMNP	ARAAD07030	PSEUDEMYMYS FLORIDANA	FLORIDA COOTER	0	0	Agree Absent
GSMNP	ARAAD07050	PSEUDEMYMYS RUBRIVENTRIS	REDBELLY TURTLE	0	0	Agree Absent
GSMNP	ARAAD08010	TERRAPENE CAROLINA	EASTERN BOX TURTLE	1	1	Agree Present
GSMNP	ARAAD09010	TRACHEMYS SCRIPTA	YELLOWBELLY SLIDER	0	0	Agree Absent
GSMNP	ARAAE01010	KINOSTERNON BAURII	STRIPED MUD TURTLE	0	0	Agree Absent
GSMNP	ARAAE01050	KINOSTERNON SUBRUBRUM	EASTERN MUD TURTLE	0	0	Agree Absent
GSMNP	ARAAE02030	STERNOTHERUS MINOR	LOGGERHEAD MUSK TURTLE	0	1	Omission
GSMNP	ARAAE02040	STERNOTHERUS ODORATUS	COMMON MUSK TURTLE	1	0	Commission
GSMNP	ARAAG01030	APALONE SPINIFERA	SPINY SOFTSHELL	0	1	Omission
GSMNP	ARABA01010	ALLIGATOR MISSISSIPPIENSIS	AMERICAN ALLIGATOR	0	0	Agree Absent
GSMNP	ARACB02010	OPHISAURUS ATTENUATUS	SLENDER GLASS LIZARD	1	1	Agree Present
GSMNP	ARACB02030	OPHISAURUS VENTRALIS	EASTERN GLASS LIZARD	0	0	Agree Absent
GSMNP	ARACB02040	OPHISAURUS MIMICUS	MIMIC GLASS LIZARD	0	0	Agree Absent
GSMNP	ARACF01010	ANOLIS CAROLINENSIS	GREEN ANOLE	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ARACF12010	PHRYNOSOMA CORNUTUM	TEXAS HORNED LIZARD	0	0	Agree Absent
GSMNP	ARACF14130	SCELOPORUS UNDULATUS	EASTERN FENCE LIZARD	1	1	Agree Present
GSMNP	ARACH01010	EUMECES ANTHRACINUS	COAL SKINK	1	1	Agree Present
GSMNP	ARACH01050	EUMECES FASCIATUS	FIVE-LINED SKINK	1	1	Agree Present
GSMNP	ARACH01070	EUMECES INEXPECTATUS	SOUTHEASTERN FIVE-LINED SKINK	1	1	Agree Present
GSMNP	ARACH01080	EUMECES LATICEPS	BROADHEAD SKINK	1	1	Agree Present
GSMNP	ARACH03010	SCINCELLA LATERALIS	GROUND SKINK	1	1	Agree Present
GSMNP	ARACJ02110	CNEMIDOPHORUS SEXLINEATUS	SIX-LINED RACERUNNER	1	1	Agree Present
GSMNP	ARADB02010	CARPPOPHIS AMOENUS	WORM SNAKE	1	1	Agree Present
GSMNP	ARADB03010	CEMOPHORA COCCINEA	SCARLET SNAKE	1	1	Agree Present
GSMNP	ARADB07010	COLUBER CONSTRICTOR	RACER	1	1	Agree Present
GSMNP	ARADB10010	DIADOPHIS PUNCTATUS	RINGNECK SNAKE	1	1	Agree Present
GSMNP	ARADB13020	ELAPHE GUTTATA	CORN SNAKE	1	1	Agree Present
GSMNP	ARADB13030	ELAPHE OBSOLETA	RAT SNAKE	1	1	Agree Present
GSMNP	ARADB14010	FARANCIA ABACURA	MUD SNAKE	0	0	Agree Absent
GSMNP	ARADB14020	FARANCIA ERYTROGRAMMA	RAINBOW SNAKE	0	0	Agree Absent
GSMNP	ARADB17020	HETERODON PLATIRHINOS	EASTERN HOGNOSE SNAKE	1	1	Agree Present
GSMNP	ARADB17030	HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE	0	0	Agree Absent
GSMNP	ARADB19010	LAMPROPELTIS CALLIGASTER	MOLE KINGSSNAKE	0	0	Agree Absent
GSMNP	ARADB19020	LAMPROPELTIS GETULA	COMMON KINGSSNAKE	1	1	Agree Present
GSMNP	ARADB19050	LAMPROPELTIS TRIANGULUM	MILK SNAKE	1	1	Agree Present
GSMNP	ARADB21020	MASTICOPHIS FLAGELLUM	COACHWHIP	0	0	Agree Absent
GSMNP	ARADB22020	NERODIA ERYTHROGASTER	REDBELLY WATER SNAKE	0	0	Agree Absent
GSMNP	ARADB22030	NERODIA FASCIATA	BANDED WATER SNAKE	0	0	Agree Absent
GSMNP	ARADB22060	NERODIA SIPEDON	NORTHERN WATER SNAKE	1	1	Agree Present
GSMNP	ARADB22070	NERODIA TAXISPILOTA	BROWN WATER SNAKE	0	0	Agree Absent
GSMNP	ARADB23010	OPHEODRYS AESTIVUS	ROUGH GREEN SNAKE	1	1	Agree Present
GSMNP	ARADB26010	PITUOPHIS MELANOLEUCUS	PINE SNAKE	1	1	Agree Present
GSMNP	ARADB27030	REGINA RIGIDA	GLOSSY CRAYFISH SNAKE	0	0	Agree Absent
GSMNP	ARADB27040	REGINA SEPTEMVITTATA	QUEEN SNAKE	1	1	Agree Present
GSMNP	ARADB28010	RHADINAEA FLAVILATA	PINE WOODS SNAKE	0	0	Agree Absent
GSMNP	ARADB31010	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE	0	0	Agree Absent
GSMNP	ARADB34010	STORERIA DEKAYI	BROWN SNAKE	1	1	Agree Present
GSMNP	ARADB34030	STORERIA OCCIPITOMACULATA	REDBELLY SNAKE	1	1	Agree Present
GSMNP	ARADB35020	TANTILLA CORONATA	SOUTHEASTERN CROWNED SNAKE	0	1	Omission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
GSMNP	ARADB36120	THAMNOPHIS SAURITUS	EASTERN RIBBON SNAKE	1	0	Commission
GSMNP	ARADB36130	THAMNOPHIS SIRTALIS	COMMON GARTER SNAKE	1	1	Agree Present
GSMNP	ARADB39010	VIRGINIA STRIATULA	ROUGH EARTH SNAKE	0	0	Agree Absent
GSMNP	ARADB39020	VIRGINIA VALERIAE	SMOOTH EARTH SNAKE	1	1	Agree Present
GSMNP	ARADC02010	MICRURUS FULVIUS	EASTERN CORAL SNAKE	0	0	Agree Absent
GSMNP	ARADE01010	AGKISTRODON CONTORTRIX	COPPERHEAD	1	1	Agree Present
GSMNP	ARADE01020	AGKISTRODON PISCIVORUS	COTTONMOUTH	0	0	Agree Absent
GSMNP	ARADE02010	CROTALUS ADAMANTEUS	EASTERN DIAMONDBACK RATTLESNAKE	0	0	Agree Absent
GSMNP	ARADE02040	CROTALUS HORRIDUS	TIMBER RATTLESNAKE	1	1	Agree Present
GSMNP	ARADE03020	SISTRURUS MILIARIUS	PIGMY RATTLESNAKE	0	0	Agree Absent
MackeyNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	1	Agree Present
MackeyNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	0	Commission
MackeyNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
MackeyNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
MackeyNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	1	Agree Present
MackeyNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
MackeyNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
MackeyNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	1	Agree Present
MackeyNWR	ABNGA06030	EGRETTA THULA	SNOWY EGRET	1	1	Agree Present
MackeyNWR	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
MackeyNWR	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	1	1	Agree Present
MackeyNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
MackeyNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
MackeyNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
MackeyNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	0	Commission
MackeyNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	0	Commission
MackeyNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	1	Agree Present
MackeyNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
MackeyNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
MackeyNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present
MackeyNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
MackeyNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	0	Commission
MackeyNWR	ABNJB10160	ANAS STREPERA	GADWALL	1	0	Commission
MackeyNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
MackeyNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MackeyNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
MackeyNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
MackeyNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
MackeyNWR	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	0	Commission
MackeyNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	0	Commission
MackeyNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	1	Omission
MackeyNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	0	0	Agree Absent
MackeyNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
MackeyNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	1	Omission
MackeyNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
MackeyNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	0	0	Agree Absent
MackeyNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
MackeyNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
MackeyNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
MackeyNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	0	0	Agree Absent
MackeyNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
MackeyNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	0	Commission
MackeyNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	0	Commission
MackeyNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
MackeyNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	1	Agree Present
MackeyNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	1	Agree Present
MackeyNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	0	Agree Absent
MackeyNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
MackeyNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
MackeyNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
MackeyNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	1	0	Commission
MackeyNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	0	Commission
MackeyNWR	ABNNF02010	CATOPTOPHORUS SEMIPALMATUS	WILLET	1	0	Commission
MackeyNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	0	Commission
MackeyNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present
MackeyNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	1	Agree Present
MackeyNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	0	Commission
MackeyNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	0	Commission
MackeyNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	1	Omission
MackeyNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MackeyNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	0	Commission
MackeyNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	1	Agree Present
MackeyNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	0	Commission
MackeyNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	1	Agree Present
MackeyNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
MackeyNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	0	Commission
MackeyNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
MackeyNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
MackeyNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
MackeyNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
MackeyNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	0	Commission
MackeyNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
MackeyNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
MackeyNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	0	Commission
MackeyNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
MackeyNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	0	Commission
MackeyNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
MackeyNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	0	Commission
MackeyNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	0	Commission
MackeyNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
MackeyNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
MackeyNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	0	Commission
MackeyNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
MackeyNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	1	Omission
MackeyNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
MackeyNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	0	Commission
MackeyNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	0	Agree Absent
MackeyNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
MackeyNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
MackeyNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
MackeyNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	0	Commission
MackeyNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
MackeyNWR	ABPAE33040	EMPIDONAX TRAILLI	WILLOW FLYCATCHER	0	0	Agree Absent
MackeyNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
MackeyNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	0	Commission

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MackeyNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
MackeyNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
MackeyNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	0	0	Agree Absent
MackeyNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
MackeyNWR	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
MackeyNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	0	Commission
MackeyNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	0	Commission
MackeyNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
MackeyNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
MackeyNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
MackeyNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
MackeyNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
MackeyNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
MackeyNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
MackeyNWR	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
MackeyNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
MackeyNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present
MackeyNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	0	Commission
MackeyNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
MackeyNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
MackeyNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
MackeyNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
MackeyNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
MackeyNWR	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
MackeyNWR	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	0	Commission
MackeyNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
MackeyNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
MackeyNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
MackeyNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	0	Commission
MackeyNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
MackeyNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
MackeyNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
MackeyNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
MackeyNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	0	Commission
MackeyNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent

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MackeyNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
MackeyNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
MackeyNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
MackeyNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	0	Commission
MackeyNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
MackeyNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
MackeyNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	0	Commission
MackeyNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	0	Commission
MackeyNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
MackeyNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	0	Commission
MackeyNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	0	Commission
MackeyNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
MackeyNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
MackeyNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	0	Commission
MackeyNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
MackeyNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
MackeyNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	0	Commission
MackeyNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	0	Commission
MackeyNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	0	Commission
MackeyNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
MackeyNWR	ABPBX12010	GEOHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
MackeyNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	0	Commission
MackeyNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
MackeyNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	0	Commission
MackeyNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	0	Commission
MackeyNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	0	Commission
MackeyNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
MackeyNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
MackeyNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present

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MackeyNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
MackeyNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
MackeyNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
MackeyNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	0	Commission
MackeyNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
MackeyNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	0	Commission
MackeyNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	0	Commission
MackeyNWR	ABPBX95010	POECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
MackeyNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
MackeyNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	1	Omission
MackeyNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	0	Agree Absent
MackeyNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	0	Agree Absent
MackeyNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	0	Commission
MackeyNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	0	Commission
MackeyNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
MackeyNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
MackeyNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
MackeyNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
MackeyNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	1	Agree Present
MackeyNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
MackeyNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
MackeyNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
MackeyNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	0	Agree Absent
MackeyNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
MackeyNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
MackeyNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
MackeyNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
MackeyNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	0	Commission
MattSqNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	1	Agree Present
MattSqNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	1	Agree Present
MattSqNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
MattSqNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
MattSqNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	1	Agree Present
MattSqNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
MattSqNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present

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MattSqNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	1	Agree Present
MattSqNWR	ABNGA06030	EGRETTA THULA	SNOWY EGRET	1	1	Agree Present
MattSqNWR	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
MattSqNWR	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	1	1	Agree Present
MattSqNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
MattSqNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
MattSqNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
MattSqNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	0	Commission
MattSqNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	1	Agree Present
MattSqNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	1	Agree Present
MattSqNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
MattSqNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
MattSqNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present
MattSqNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
MattSqNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	0	Commission
MattSqNWR	ABNJB10160	ANAS STREPERA	GADWALL	1	1	Agree Present
MattSqNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
MattSqNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
MattSqNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
MattSqNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
MattSqNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
MattSqNWR	ABNKC10010	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	1	1	Agree Present
MattSqNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	0	Commission
MattSqNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	1	Omission
MattSqNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	0	1	Omission
MattSqNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
MattSqNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	0	Agree Absent
MattSqNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
MattSqNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	0	Commission
MattSqNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
MattSqNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
MattSqNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
MattSqNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	1	Agree Present
MattSqNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
MattSqNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	0	Commission

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MattSqNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	1	Agree Present
MattSqNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
MattSqNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	0	Commission
MattSqNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	1	Agree Present
MattSqNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	1	Omission
MattSqNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
MattSqNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
MattSqNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
MattSqNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	1	1	Agree Present
MattSqNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	1	Agree Present
MattSqNWR	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	1	1	Agree Present
MattSqNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	0	Commission
MattSqNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present
MattSqNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	1	Agree Present
MattSqNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	0	Commission
MattSqNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	1	Agree Present
MattSqNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	1	0	Commission
MattSqNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	1	Agree Present
MattSqNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	0	Commission
MattSqNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	1	Agree Present
MattSqNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	1	Agree Present
MattSqNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	1	Agree Present
MattSqNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
MattSqNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	1	Agree Present
MattSqNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	0	Commission
MattSqNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
MattSqNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	1	0	Commission
MattSqNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
MattSqNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
MattSqNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
MattSqNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
MattSqNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
MattSqNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
MattSqNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
MattSqNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MattSqNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
MattSqNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
MattSqNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
MattSqNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
MattSqNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
MattSqNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
MattSqNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	0	Agree Absent
MattSqNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
MattSqNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
MattSqNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	1	0	Commission
MattSqNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
MattSqNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
MattSqNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
MattSqNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
MattSqNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
MattSqNWR	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
MattSqNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
MattSqNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	0	0	Agree Absent
MattSqNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
MattSqNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
MattSqNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	0	0	Agree Absent
MattSqNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
MattSqNWR	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	0	Commission
MattSqNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	0	Commission
MattSqNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	0	0	Agree Absent
MattSqNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
MattSqNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
MattSqNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
MattSqNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
MattSqNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
MattSqNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
MattSqNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
MattSqNWR	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
MattSqNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
MattSqNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present

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MattSqNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	1	Agree Present
MattSqNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
MattSqNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
MattSqNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
MattSqNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
MattSqNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
MattSqNWR	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
MattSqNWR	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
MattSqNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
MattSqNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
MattSqNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
MattSqNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
MattSqNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
MattSqNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
MattSqNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
MattSqNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
MattSqNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	0	Commission
MattSqNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent
MattSqNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
MattSqNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
MattSqNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
MattSqNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present
MattSqNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
MattSqNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
MattSqNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
MattSqNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
MattSqNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
MattSqNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
MattSqNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
MattSqNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present

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MattSqNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
MattSqNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	0	Commission
MattSqNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
MattSqNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
MattSqNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	0	Commission
MattSqNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
MattSqNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	0	Commission
MattSqNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
MattSqNWR	ABPBX12010	GEOHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
MattSqNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
MattSqNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
MattSqNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	0	Commission
MattSqNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
MattSqNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	0	0	Agree Absent
MattSqNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
MattSqNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
MattSqNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
MattSqNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
MattSqNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
MattSqNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
MattSqNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
MattSqNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
MattSqNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
MattSqNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
MattSqNWR	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
MattSqNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
MattSqNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
MattSqNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	0	Agree Absent
MattSqNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	1	0	Commission
MattSqNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	1	Agree Present
MattSqNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	0	0	Agree Absent
MattSqNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
MattSqNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
MattSqNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present

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MattSqNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
MattSqNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	1	Agree Present
MattSqNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
MattSqNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
MattSqNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
MattSqNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	0	Agree Absent
MattSqNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
MattSqNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
MattSqNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
MattSqNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	0	Commission
MattSqNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	0	Commission
MntMitchSP	AAAAA01070	AMBYSTOMA MABEEI	MABEE'S SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAA01090	AMBYSTOMA MACULATUM	SPOTTED SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAA01100	AMBYSTOMA OPACUM	MARbled SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAA01120	AMBYSTOMA TALPOIDEUM	MOLE SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAA01140	AMBYSTOMA TIGRINUM	TIGER SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAB01010	AMPHIUMA MEANS	TWO-TOED AMPHIUMA	0	0	Agree Absent
MntMitchSP	AAAAC01010	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER	0	0	Agree Absent
MntMitchSP	AAAAD01010	ANEIDES AENEUS	GREEN SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03010	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03020	DESMOGNATHUS AURICULATUS	SOUTHERN DUSKY SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03040	DESMOGNATHUS FUSCUS	DUSKY SALAMANDER	1	1	Agree Present
MntMitchSP	AAAAD03050	DESMOGNATHUS IMITATOR	IMITATOR SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03060	DESMOGNATHUS MONTICOLA	SEAL SALAMANDER	1	1	Agree Present
MntMitchSP	AAAAD03080	DESMOGNATHUS QUADRAMACULATUS	BLACKBELLY SALAMANDER	1	0	Commission
MntMitchSP	AAAAD03100	DESMOGNATHUS WRIGHTI	PIGMY SALAMANDER	1	1	Agree Present
MntMitchSP	AAAAD03110	DESMOGNATHUS SANTEETLAH	SANTEETLAH DUSKY SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03130	DESMOGNATHUS CAROLINENSIS	CAROLINA MOUNTAIN DUSKY SALAMANDER	1	0	Commission
MntMitchSP	AAAAD03140	DESMOGNATHUS OCOEE	OCOEE SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD03150	DESMOGNATHUS ORESTES	BLUE RIDGE DUSKY SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD05020	EURYCEA JUNALUSKA	JUNALUSKA SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD05040	EURYCEA LONGICAUDA	LONGTAIL SALAMANDER	0	1	Omission
MntMitchSP	AAAAD05090	EURYCEA QUADRIDIGITATA	DWARF SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD05140	EURYCEA CIRRIGERA	SOUTHERN TWO-LINED SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD05150	EURYCEA WILDERAE	BLUE RIDGE TWO-LINED SALAMANDER	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MntMitchSP	AAAAD05290	EURYCEA GUTTOLINEATA	THREE-LINED SALAMANDER	1	0	Commission
MntMitchSP	AAAAD06020	GYRINOPHILUS PORPHYRITICUS	SPRING SALAMANDER	1	1	Agree Present
MntMitchSP	AAAAD08010	HEMIDACTYLIUM SCUTATUM	FOUR-TOED SALAMANDER	1	0	Commission
MntMitchSP	AAAAD10010	LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER	0	1	Omission
MntMitchSP	AAAAD12020	PLETHODON CINEREUS	REDBACK SALAMANDER	1	0	Commission
MntMitchSP	AAAAD12070	PLETHODON GLUTINOSUS	SLIMY SALAMANDER	1	0	Commission
MntMitchSP	AAAAD12090	PLETHODON JORDANI	JORDAN'S SALAMANDER	1	1	Agree Present
MntMitchSP	AAAAD12150	PLETHODON RICHMONDI	RAVINE SALAMANDER	1	0	Commission
MntMitchSP	AAAAD12160	PLETHODON SERRATUS	SOUTHERN REDBACK SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD12220	PLETHODON WEHRLEI	WEHRLE'S SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD12230	PLETHODON WELLERI	WELLER'S SALAMANDER	1	0	Commission
MntMitchSP	AAAAD12240	PLETHODON YONAHLOSSEE	YONAHLOSSEE SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD12250	PLETHODON AUREOLUS	TELLICO SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD12300	PLETHODON TEYAHALEE	SOUTHERN APPALACHIAN SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD12370	PLETHODON VENTRALIS	SOUTHERN ZIGZAG SALAMANDER	1	0	Commission
MntMitchSP	AAAAD13010	PSEUDOTRITON MONTANUS	MUD SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAD13020	PSEUDOTRITON RUBER	RED SALAMANDER	1	0	Commission
MntMitchSP	AAAAD14010	STEREOCHILUS MARGINATUS	MANY-LINED SALAMANDER	0	0	Agree Absent
MntMitchSP	AAAAE01030	NECTURUS LEWISI	NEUSE RIVER WATERDOG	0	0	Agree Absent
MntMitchSP	AAAAE01040	NECTURUS MACULOSUS	MUDPUPPY	0	0	Agree Absent
MntMitchSP	AAAAE01050	NECTURUS PUNCTATUS	DWARF WATERDOG	0	0	Agree Absent
MntMitchSP	AAAAF01030	NOTOPHTHALMUS VIRIDESCENS	EASTERN NEWT	1	1	Agree Present
MntMitchSP	AAAAG02010	SIREN INTERMEDIA	LESSER SIREN	0	0	Agree Absent
MntMitchSP	AAAAG02020	SIREN LACERTINA	GREATER SIREN	0	0	Agree Absent
MntMitchSP	AAABB01020	BUFO AMERICANUS	AMERICAN TOAD	1	1	Agree Present
MntMitchSP	AAABB01130	BUFO QUERCICUS	OAK TOAD	0	0	Agree Absent
MntMitchSP	AAABB01160	BUFO TERRESTRIS	SOUTHERN TOAD	0	0	Agree Absent
MntMitchSP	AAABB01210	BUFO FOWLERI	FOWLER'S TOAD	1	0	Commission
MntMitchSP	AAABC01010	ACRIS CREPITANS	NORTHERN CRICKET FROG	0	0	Agree Absent
MntMitchSP	AAABC01020	ACRIS GRYLLUS	SOUTHERN CRICKET FROG	0	0	Agree Absent
MntMitchSP	AAABC02010	HYLA ANDERSONII	PINE BARRENS TREEFROG	0	0	Agree Absent
MntMitchSP	AAABC02050	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG	1	0	Commission
MntMitchSP	AAABC02060	HYLA CINEREA	GREEN TREEFROG	0	0	Agree Absent
MntMitchSP	AAABC02090	HYLA FEMORALIS	PINE WOODS TREEFROG	0	0	Agree Absent
MntMitchSP	AAABC02100	HYLA GRATIOSA	BARKING TREEFROG	0	0	Agree Absent

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MntMitchSP	AAABC02120	HYLA SQUIRELLA	SQUIRREL TREEFROG	0	0	Agree Absent
MntMitchSP	AAABC02130	HYLA VERSICOLOR	GRAY TREEFROG	0	0	Agree Absent
MntMitchSP	AAABC05020	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG	0	0	Agree Absent
MntMitchSP	AAABC05040	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG	0	0	Agree Absent
MntMitchSP	AAABC05050	PSEUDACRIS ORNATA	ORNATE CHORUS FROG	0	0	Agree Absent
MntMitchSP	AAABC05070	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG	0	0	Agree Absent
MntMitchSP	AAABC05090	PSEUDACRIS CRUCIFER	SPRING PEEPER	1	1	Agree Present
MntMitchSP	AAABC05110	PSEUDACRIS OCULARIS	LITTLE GRASS FROG	0	0	Agree Absent
MntMitchSP	AAABE01010	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD	0	0	Agree Absent
MntMitchSP	AAABF01040	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT	0	0	Agree Absent
MntMitchSP	AAABH01070	RANA CATESBEIANA	BULLFROG	1	0	Commission
MntMitchSP	AAABH01090	RANA CLAMITANS	GREEN FROG	1	0	Commission
MntMitchSP	AAABH01160	RANA PALUSTRIS	PICKEREL FROG	1	0	Commission
MntMitchSP	AAABH01200	RANA SYLVATICA	WOOD FROG	1	1	Agree Present
MntMitchSP	AAABH01220	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG	0	0	Agree Absent
MntMitchSP	AAABH01230	RANA VIRGATIPES	CARPENTER FROG	0	0	Agree Absent
MntMitchSP	AAABH01270	RANA CAPITO	GOPHER FROG	0	0	Agree Absent
MntMitchSP	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	0	0	Agree Absent
MntMitchSP	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	0	0	Agree Absent
MntMitchSP	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	0	0	Agree Absent
MntMitchSP	ABNFE01010	ANHINGA ANHINGA	ANHINGA	0	0	Agree Absent
MntMitchSP	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	0	0	Agree Absent
MntMitchSP	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	0	0	Agree Absent
MntMitchSP	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	0	0	Agree Absent
MntMitchSP	ABNGA04040	ARDEA ALBA	GREAT EGRET	0	0	Agree Absent
MntMitchSP	ABNGA06030	EGRETTA THULA	SNOWY EGRET	0	0	Agree Absent
MntMitchSP	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	0	0	Agree Absent
MntMitchSP	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	0	0	Agree Absent
MntMitchSP	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	0	0	Agree Absent
MntMitchSP	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	0	Commission
MntMitchSP	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	0	0	Agree Absent
MntMitchSP	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	0	0	Agree Absent
MntMitchSP	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	0	0	Agree Absent
MntMitchSP	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	0	0	Agree Absent
MntMitchSP	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MntMitchSP	ABNJB09010	AIX SPONSA	WOOD DUCK	0	0	Agree Absent
MntMitchSP	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	0	0	Agree Absent
MntMitchSP	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	0	Commission
MntMitchSP	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	0	0	Agree Absent
MntMitchSP	ABNJB10160	ANAS STREPERA	GADWALL	0	0	Agree Absent
MntMitchSP	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	0	0	Agree Absent
MntMitchSP	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	0	0	Agree Absent
MntMitchSP	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
MntMitchSP	ABNKC01010	PANDION HALIAETUS	OSPREY	0	0	Agree Absent
MntMitchSP	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
MntMitchSP	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	0	0	Agree Absent
MntMitchSP	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	0	0	Agree Absent
MntMitchSP	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	1	1	Agree Present
MntMitchSP	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	1	Agree Present
MntMitchSP	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	0	0	Agree Absent
MntMitchSP	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	1	1	Agree Present
MntMitchSP	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	0	Commission
MntMitchSP	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	0	Commission
MntMitchSP	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	1	1	Agree Present
MntMitchSP	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
MntMitchSP	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	1	1	Agree Present
MntMitchSP	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	1	Agree Present
MntMitchSP	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
MntMitchSP	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	0	0	Agree Absent
MntMitchSP	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	0	0	Agree Absent
MntMitchSP	ABNME05020	RALLUS ELEGANS	KING RAIL	0	0	Agree Absent
MntMitchSP	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	0	0	Agree Absent
MntMitchSP	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	0	0	Agree Absent
MntMitchSP	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	0	Agree Absent
MntMitchSP	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
MntMitchSP	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
MntMitchSP	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	0	Commission
MntMitchSP	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
MntMitchSP	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	0	0	Agree Absent
MntMitchSP	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MntMitchSP	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	0	Commission
MntMitchSP	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	0	0	Agree Absent
MntMitchSP	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	0	0	Agree Absent
MntMitchSP	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	0	0	Agree Absent
MntMitchSP	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	0	0	Agree Absent
MntMitchSP	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
MntMitchSP	ABNNM08030	STERNA MAXIMA	ROYAL TERN	0	0	Agree Absent
MntMitchSP	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	0	0	Agree Absent
MntMitchSP	ABNNM08070	STERNA HIRUNDO	COMMON TERN	0	0	Agree Absent
MntMitchSP	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	0	0	Agree Absent
MntMitchSP	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	0	0	Agree Absent
MntMitchSP	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
MntMitchSP	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	0	0	Agree Absent
MntMitchSP	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	0	1	Omission
MntMitchSP	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	0	0	Agree Absent
MntMitchSP	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
MntMitchSP	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	0	0	Agree Absent
MntMitchSP	ABNSA01010	TYTO ALBA	BARN OWL	1	0	Commission
MntMitchSP	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	0	0	Agree Absent
MntMitchSP	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	0	0	Agree Absent
MntMitchSP	ABNSB12020	STRIX VARIA	BARRED OWL	1	0	Commission
MntMitchSP	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	1	1	Agree Present
MntMitchSP	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	0	Commission
MntMitchSP	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	0	0	Agree Absent
MntMitchSP	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	0	0	Agree Absent
MntMitchSP	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
MntMitchSP	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
MntMitchSP	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	0	0	Agree Absent
MntMitchSP	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	0	0	Agree Absent
MntMitchSP	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	0	0	Agree Absent
MntMitchSP	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	1	0	Commission
MntMitchSP	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
MntMitchSP	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
MntMitchSP	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	0	0	Agree Absent
MntMitchSP	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	0	1	Omission

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MntMitchSP	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	0	1	Omission
MntMitchSP	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	0	0	Agree Absent
MntMitchSP	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	0	0	Agree Absent
MntMitchSP	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	1	0	Commission
MntMitchSP	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
MntMitchSP	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
MntMitchSP	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	1	Agree Present
MntMitchSP	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	0	0	Agree Absent
MntMitchSP	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	0	0	Agree Absent
MntMitchSP	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	0	Commission
MntMitchSP	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	0	Commission
MntMitchSP	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	0	Commission
MntMitchSP	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	0	Commission
MntMitchSP	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	0	0	Agree Absent
MntMitchSP	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	0	Commission
MntMitchSP	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
MntMitchSP	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
MntMitchSP	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	0	0	Agree Absent
MntMitchSP	ABPAV10110	CORVUS CORAX	COMMON RAVEN	1	1	Agree Present
MntMitchSP	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	1	Omission
MntMitchSP	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	0	1	Omission
MntMitchSP	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	0	1	Omission
MntMitchSP	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	1	1	Agree Present
MntMitchSP	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	0	0	Agree Absent
MntMitchSP	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	0	0	Agree Absent
MntMitchSP	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	1	1	Agree Present
MntMitchSP	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	0	1	Omission
MntMitchSP	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
MntMitchSP	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	1	1	Agree Present
MntMitchSP	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	0	0	Agree Absent
MntMitchSP	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	1	1	Agree Present
MntMitchSP	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	0	0	Agree Absent
MntMitchSP	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	0	1	Omission
MntMitchSP	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	1	1	Agree Present
MntMitchSP	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	1	1	Agree Present

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MntMitchSP	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	0	0	Agree Absent
MntMitchSP	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
MntMitchSP	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
MntMitchSP	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	0	0	Agree Absent
MntMitchSP	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	0	Commission
MntMitchSP	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	1	Agree Present
MntMitchSP	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent
MntMitchSP	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	0	0	Agree Absent
MntMitchSP	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	0	0	Agree Absent
MntMitchSP	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	1	1	Agree Present
MntMitchSP	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	0	0	Agree Absent
MntMitchSP	ABPBW01210	VIREO GILVUS	WARBLING VIREO	1	0	Commission
MntMitchSP	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	0	0	Agree Absent
MntMitchSP	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	0	Commission
MntMitchSP	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	1	1	Agree Present
MntMitchSP	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	1	1	Agree Present
MntMitchSP	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	1	Agree Present
MntMitchSP	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	1	0	Commission
MntMitchSP	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX03170	DENDROICA PINUS	PINE WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	0	Commission
MntMitchSP	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	1	0	Commission
MntMitchSP	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
MntMitchSP	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	0	0	Agree Absent
MntMitchSP	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	0	1	Omission
MntMitchSP	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	0	0	Agree Absent
MntMitchSP	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	0	0	Agree Absent
MntMitchSP	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	0	0	Agree Absent
MntMitchSP	ABPBX12010	GEOHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	0	Commission
MntMitchSP	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	0	0	Agree Absent

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MntMitchSP	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	1	1	Agree Present
MntMitchSP	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	0	Commission
MntMitchSP	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	0	0	Agree Absent
MntMitchSP	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	0	1	Omission
MntMitchSP	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	0	0	Agree Absent
MntMitchSP	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	1	1	Agree Present
MntMitchSP	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	0	0	Agree Absent
MntMitchSP	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	0	1	Omission
MntMitchSP	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
MntMitchSP	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	0	0	Agree Absent
MntMitchSP	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
MntMitchSP	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
MntMitchSP	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	0	0	Agree Absent
MntMitchSP	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
MntMitchSP	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	1	0	Commission
MntMitchSP	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
MntMitchSP	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
MntMitchSP	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	1	0	Commission
MntMitchSP	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	0	Agree Absent
MntMitchSP	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	0	0	Agree Absent
MntMitchSP	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	1	Agree Present
MntMitchSP	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	1	1	Agree Present
MntMitchSP	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	1	0	Commission
MntMitchSP	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	0	Commission
MntMitchSP	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	0	0	Agree Absent
MntMitchSP	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	0	0	Agree Absent
MntMitchSP	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	0	0	Agree Absent
MntMitchSP	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	0	1	Omission
MntMitchSP	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	0	0	Agree Absent
MntMitchSP	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	1	0	Commission
MntMitchSP	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	0	0	Agree Absent
MntMitchSP	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	1	1	Agree Present
MntMitchSP	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	1	1	Agree Present
MntMitchSP	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
MntMitchSP	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MntMitchSP	AMAAA01010	DIDELPHIS VIRGINIANA	VIRGINIA OPOSSUM	1	0	Commission
MntMitchSP	AMABA01010	SOREX CINEREUS	MASKED SHREW	1	1	Agree Present
MntMitchSP	AMABA01060	SOREX LONGIROSTRIS	SOUTHEASTERN SHREW	1	0	Commission
MntMitchSP	AMABA01150	SOREX PALUSTRIS	WATER SHREW	1	0	Commission
MntMitchSP	AMABA01180	SOREX FUMEUS	SMOKY SHREW	1	1	Agree Present
MntMitchSP	AMABA01210	SOREX DISPAR	LONG-TAILED SHREW	1	1	Agree Present
MntMitchSP	AMABA01250	SOREX HOYI	PYGMY SHREW	1	0	Commission
MntMitchSP	AMABA03010	BLARINA BREVICAUDA	NORTHERN SHORT-TAILED SHREW	1	0	Commission
MntMitchSP	AMABA03020	BLARINA CAROLINENSIS	SOUTHERN SHORT-TAILED SHREW	0	0	Agree Absent
MntMitchSP	AMABA04010	CRYPTOTIS PARVA	LEAST SHREW	1	0	Commission
MntMitchSP	AMABB03010	PARASCALOPS BREWERI	HAIRY-TAILED MOLE	1	0	Commission
MntMitchSP	AMABB04010	SCALOPUS AQUATICUS	EASTERN MOLE	1	0	Commission
MntMitchSP	AMABB05010	CONDYLURA CRISTATA	STAR-NOSED MOLE	1	0	Commission
MntMitchSP	AMACC01010	MYOTIS LUCIFUGUS	LITTLE BROWN BAT	1	1	Agree Present
MntMitchSP	AMACC01030	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN BAT	0	0	Agree Absent
MntMitchSP	AMACC01100	MYOTIS SODALIS	INDIANA BAT	1	0	Commission
MntMitchSP	AMACC01130	MYOTIS LEIBII	EASTERN SMALL-FOOTED BAT	1	0	Commission
MntMitchSP	AMACC01150	MYOTIS SEPTENTRIONALIS	NORTHERN BAT	1	0	Commission
MntMitchSP	AMACC03020	PIPISTRELLUS SUBFLAVUS	EASTERN PIPISTRELLE	1	1	Agree Present
MntMitchSP	AMACC04010	EPTESICUS FUSCUS	BIG BROWN BAT	1	0	Commission
MntMitchSP	AMACC05010	LASIURUS BOREALIS	EASTERN RED BAT	1	0	Commission
MntMitchSP	AMACC05020	LASIURUS SEMINOLUS	SEMINOLE BAT	0	0	Agree Absent
MntMitchSP	AMACC06010	NYCTICEIUS HUMERALIS	EVENING BAT	1	0	Commission
MntMitchSP	AMACC08010	CORYNORHINUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT	1	0	Commission
MntMitchSP	AMACC08020	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT	1	0	Commission
MntMitchSP	AMACD01010	TADARIDA BRASILIENSIS	BRAZILIAN FREE-TAILED BAT	0	0	Agree Absent
MntMitchSP	AMAEB01030	SYLVILAGUS PALUSTRIS	MARSH RABBIT	0	0	Agree Absent
MntMitchSP	AMAEB01040	SYLVILAGUS FLORIDANUS	EASTERN COTTONTAIL	1	1	Agree Present
MntMitchSP	AMAEB01090	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL	1	1	Agree Present
MntMitchSP	AMAFB02230	TAMIAS STRIATUS	EASTERN CHIPMUNK	1	1	Agree Present
MntMitchSP	AMAFB03010	MARMOTA MONAX	WOODCHUCK	1	0	Commission
MntMitchSP	AMAFB07010	SCIURUS CAROLINENSIS	EASTERN GRAY SQUIRREL	1	0	Commission
MntMitchSP	AMAFB07040	SCIURUS NIGER	EASTERN FOX SQUIRREL	0	0	Agree Absent
MntMitchSP	AMAFB08010	TAMIASCIURUS HUDSONICUS	RED SQUIRREL	1	1	Agree Present
MntMitchSP	AMAFB09010	GLAUCOMYS VOLANS	SOUTHERN FLYING SQUIRREL	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
MntMitchSP	AMAFB09020	GLAUCOMYS SABRINUS	NORTHERN FLYING SQUIRREL	1	1	Agree Present
MntMitchSP	AMAFE01010	CASTOR CANADENSIS	AMERICAN BEAVER	1	0	Commission
MntMitchSP	AMAFF01010	ORYZOMYS PALUSTRIS	MARSH RICE RAT	0	0	Agree Absent
MntMitchSP	AMAFF02020	REITHRODONTOMYS HUMULIS	EASTERN HARVEST MOUSE	1	0	Commission
MntMitchSP	AMAFF03040	PEROMYSCUS MANICULATUS	COMMON DEER MOUSE	1	1	Agree Present
MntMitchSP	AMAFF03060	PEROMYSCUS POLIONOTUS	OLDFIELD MOUSE	0	0	Agree Absent
MntMitchSP	AMAFF03070	PEROMYSCUS LEUCOPUS	WHITE-FOOTED MOUSE	1	0	Commission
MntMitchSP	AMAFF03080	PEROMYSCUS GOSSYPINUS	COTTON MOUSE	0	0	Agree Absent
MntMitchSP	AMAFF04010	OCHROTOMYS NUTTALI	GOLDEN MOUSE	1	0	Commission
MntMitchSP	AMAFF07010	SIGMODON HISPIDUS	HISPID COTTON RAT	0	0	Agree Absent
MntMitchSP	AMAFF08010	NEOTOMA FLORIDANA	EASTERN WOODRAT	1	0	Commission
MntMitchSP	AMAFF08100	NEOTOMA MAGISTER	ALLEGHENY WOODRAT	0	0	Agree Absent
MntMitchSP	AMAFF09020	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE	1	1	Agree Present
MntMitchSP	AMAFF11010	MICROTUS PENNSYLVANICUS	MEADOW VOLE	1	1	Agree Present
MntMitchSP	AMAFF11090	MICROTUS CHROTORRHINUS	ROCK VOLE	1	1	Agree Present
MntMitchSP	AMAFF11150	MICROTUS PINETORUM	WOODLAND VOLE	1	0	Commission
MntMitchSP	AMAFF15010	ONDATRA ZIBETHICUS	MUSKRAT	0	0	Agree Absent
MntMitchSP	AMAFF17010	SYNAPTOMYS COOPERI	SOUTHERN BOG LEMMING	1	1	Agree Present
MntMitchSP	AMAFF21010	RATTUS RATTUS	BLACK RAT	0	0	Agree Absent
MntMitchSP	AMAFF21020	RATTUS NORVEGICUS	NORWAY RAT	1	0	Commission
MntMitchSP	AMAFF22010	MUS MUSCULUS	HOUSE MOUSE	1	0	Commission
MntMitchSP	AMAFH01010	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE	1	0	Commission
MntMitchSP	AMAFH02010	NAPAEOZAPUS INSIGNIS	WOODLAND JUMPING MOUSE	1	1	Agree Present
MntMitchSP	AMAFK01010	MYOCASTOR COYPUS	NUTRIA	0	0	Agree Absent
MntMitchSP	AMAJA01010	CANIS LATRANS	COYOTE	1	1	Agree Present
MntMitchSP	AMAJA01020	CANIS RUFUS	RED WOLF	0	0	Agree Absent
MntMitchSP	AMAJA03010	VULPES VULPES	RED FOX	1	1	Agree Present
MntMitchSP	AMAJA04010	UROCYON CINEREOARGENTEUS	COMMON GRAY FOX	0	1	Omission
MntMitchSP	AMAJB01010	URSUS AMERICANUS	BLACK BEAR	1	1	Agree Present
MntMitchSP	AMAJE02010	PROCYON LOTOR	COMMON RACCOON	0	1	Omission
MntMitchSP	AMAJF02020	MUSTELA NIVALIS	LEAST WEASEL	1	1	Agree Present
MntMitchSP	AMAJF02030	MUSTELA FRENATA	LONG-TAILED WEASEL	1	0	Commission
MntMitchSP	AMAJF02050	MUSTELA VISON	MINK	1	0	Commission
MntMitchSP	AMAJF05010	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK	1	0	Commission
MntMitchSP	AMAJF06010	MEPHITIS MEPHITIS	STRIPED SKUNK	1	1	Agree Present

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MntMitchSP	AMAJF08010	LUTRA CANADENSIS	NORTHERN RIVER OTTER	1	0	Commission
MntMitchSP	AMAJH03020	LYNX RUFUS	BOBCAT	1	1	Agree Present
MntMitchSP	AMALA01010	SUS SCROFA	FERAL PIG	0	0	Agree Absent
MntMitchSP	AMALC02020	ODOCOILEUS VIRGINIANUS	WHITE-TAILED DEER	1	1	Agree Present
MntMitchSP	AMATA01010	EQUUS CABALLUS	FERAL HORSE	0	0	Agree Absent
MntMitchSP	ARAAA01010	CARETTA CARETTA	LOGGERHEAD	0	0	Agree Absent
MntMitchSP	ARAAA02010	CHELONIA MYDAS	GREEN TURTLE	0	0	Agree Absent
MntMitchSP	ARAAA04010	LEPIDOCHELYS KEMPII	ATLANTIC RIDLEY	0	0	Agree Absent
MntMitchSP	ARAAB01010	CHELYDRA SERPENTINA	SNAPPING TURTLE	1	0	Commission
MntMitchSP	ARAAC01010	DERMOCHELYS CORIACEA	LEATHERBACK	0	0	Agree Absent
MntMitchSP	ARAAD01010	CHRYSEMYS PICTA	PAINTED TURTLE	1	0	Commission
MntMitchSP	ARAAD02010	CLEMMYS GUTTATA	SPOTTED TURTLE	0	0	Agree Absent
MntMitchSP	ARAAD02040	CLEMMYS MUHLENBERGII	BOG TURTLE	1	0	Commission
MntMitchSP	ARAAD03010	DEIROCHELYS RETICULARIA	CHICKEN TURTLE	0	0	Agree Absent
MntMitchSP	ARAAD06010	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN	0	0	Agree Absent
MntMitchSP	ARAAD07020	PSEUDEMYS CONCINNA	RIVER COOTER	0	0	Agree Absent
MntMitchSP	ARAAD07030	PSEUDEMYS FLORIDANA	FLORIDA COOTER	0	0	Agree Absent
MntMitchSP	ARAAD07050	PSEUDEMYS RUBRIVENTRIS	REDBELLY TURTLE	0	0	Agree Absent
MntMitchSP	ARAAD08010	TERRAPENE CAROLINA	EASTERN BOX TURTLE	1	0	Commission
MntMitchSP	ARAAD09010	TRACHEMYS SCRIPTA	YELLOWBELLY SLIDER	0	0	Agree Absent
MntMitchSP	ARAAE01010	KINOSTERNON BAURII	STRIPED MUD TURTLE	0	0	Agree Absent
MntMitchSP	ARAAE01050	KINOSTERNON SUBRUBRUM	EASTERN MUD TURTLE	0	0	Agree Absent
MntMitchSP	ARAAE02030	STERNOTHERUS MINOR	LOGGERHEAD MUSK TURTLE	0	0	Agree Absent
MntMitchSP	ARAAE02040	STERNOTHERUS ODORATUS	COMMON MUSK TURTLE	1	0	Commission
MntMitchSP	ARAAG01030	APALONE SPINIFERA	SPINY SOFTSHELL	0	0	Agree Absent
MntMitchSP	ARABA01010	ALLIGATOR MISSISSIPPIENSIS	AMERICAN ALLIGATOR	0	0	Agree Absent
MntMitchSP	ARACB02010	OPHISAURUS ATTENUATUS	SLENDER GLASS LIZARD	0	0	Agree Absent
MntMitchSP	ARACB02030	OPHISAURUS VENTRALIS	EASTERN GLASS LIZARD	0	0	Agree Absent
MntMitchSP	ARACB02040	OPHISAURUS MIMICUS	MIMIC GLASS LIZARD	0	0	Agree Absent
MntMitchSP	ARACF01010	ANOLIS CAROLINENSIS	GREEN ANOLE	1	0	Commission
MntMitchSP	ARACF12010	PHRYNOSOMA CORNUTUM	TEXAS HORNED LIZARD	0	0	Agree Absent
MntMitchSP	ARACF14130	SCELOPORUS UNDULATUS	EASTERN FENCE LIZARD	1	0	Commission
MntMitchSP	ARACH01010	EUMECES ANTHRACINUS	COAL SKINK	1	0	Commission
MntMitchSP	ARACH01050	EUMECES FASCIATUS	FIVE-LINED SKINK	1	1	Agree Present
MntMitchSP	ARACH01070	EUMECES INEXPECTATUS	SOUTHEASTERN FIVE-LINED SKINK	0	0	Agree Absent

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MntMitchSP	ARACH01080	EUMECES LATICEPS	BROADHEAD SKINK	1	0	Commission
MntMitchSP	ARACH03010	SCINCELLA LATERALIS	GROUND SKINK	1	0	Commission
MntMitchSP	ARACJ02110	CNEMIDOPHORUS SEXLINEATUS	SIX-LINED RACERUNNER	0	0	Agree Absent
MntMitchSP	ARADB02010	CARPPOPHIS AMOENUS	WORM SNAKE	1	0	Commission
MntMitchSP	ARADB03010	CEMOPHORA COCCINEA	SCARLET SNAKE	0	0	Agree Absent
MntMitchSP	ARADB07010	COLUBER CONSTRICTOR	RACER	1	0	Commission
MntMitchSP	ARADB10010	DIADOPHIS PUNCTATUS	RINGNECK SNAKE	1	1	Agree Present
MntMitchSP	ARADB13020	ELAPHE GUTTATA	CORN SNAKE	0	0	Agree Absent
MntMitchSP	ARADB13030	ELAPHE OBSOLETA	RAT SNAKE	1	0	Commission
MntMitchSP	ARADB14010	FARANCIA ABACURA	MUD SNAKE	0	0	Agree Absent
MntMitchSP	ARADB14020	FARANCIA ERYTROGRAMMA	RAINBOW SNAKE	0	0	Agree Absent
MntMitchSP	ARADB17020	HETERODON PLATIRHINOS	EASTERN HOGNOSE SNAKE	1	0	Commission
MntMitchSP	ARADB17030	HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE	0	0	Agree Absent
MntMitchSP	ARADB19010	LAMPROPELTIS CALLIGASTER	MOLE KINGSSNAKE	0	0	Agree Absent
MntMitchSP	ARADB19020	LAMPROPELTIS GETULA	COMMON KINGSSNAKE	1	0	Commission
MntMitchSP	ARADB19050	LAMPROPELTIS TRIANGULUM	MILK SNAKE	1	0	Commission
MntMitchSP	ARADB21020	MASTICOPHIS FLAGELLUM	COACHWHIP	0	0	Agree Absent
MntMitchSP	ARADB22020	NERODIA ERYTHROGASTER	REDBELLY WATER SNAKE	0	0	Agree Absent
MntMitchSP	ARADB22030	NERODIA FASCIATA	BANDED WATER SNAKE	0	0	Agree Absent
MntMitchSP	ARADB22060	NERODIA SIPEDON	NORTHERN WATER SNAKE	1	0	Commission
MntMitchSP	ARADB22070	NERODIA TAXISPILOTA	BROWN WATER SNAKE	0	0	Agree Absent
MntMitchSP	ARADB23010	OPHEODRYS AESTIVUS	ROUGH GREEN SNAKE	1	0	Commission
MntMitchSP	ARADB26010	PITUOPHIS MELANOLEUCUS	PINE SNAKE	0	0	Agree Absent
MntMitchSP	ARADB27030	REGINA RIGIDA	GLOSSY CRAYFISH SNAKE	0	0	Agree Absent
MntMitchSP	ARADB27040	REGINA SEPTEMVITTATA	QUEEN SNAKE	1	0	Commission
MntMitchSP	ARADB28010	RHADINAEA FLAVILATA	PINE WOODS SNAKE	0	0	Agree Absent
MntMitchSP	ARADB31010	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE	0	0	Agree Absent
MntMitchSP	ARADB34010	STORERIA DEKAYI	BROWN SNAKE	1	0	Commission
MntMitchSP	ARADB34030	STORERIA OCCIPITOMACULATA	REDBELLY SNAKE	1	0	Commission
MntMitchSP	ARADB35020	TANTILLA CORONATA	SOUTHEASTERN CROWNED SNAKE	1	0	Commission
MntMitchSP	ARADB36120	THAMNOPHIS SAURITUS	EASTERN RIBBON SNAKE	0	0	Agree Absent
MntMitchSP	ARADB36130	THAMNOPHIS SIRTALIS	COMMON GARTER SNAKE	1	1	Agree Present
MntMitchSP	ARADB39010	VIRGINIA STRIATULA	ROUGH EARTH SNAKE	0	0	Agree Absent
MntMitchSP	ARADB39020	VIRGINIA VALERIAE	SMOOTH EARTH SNAKE	1	0	Commission
MntMitchSP	ARADC02010	MICRURUS FULVIUS	EASTERN CORAL SNAKE	0	0	Agree Absent

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MntMitchSP	ARADE01010	AGKISTRODON CONTORTRIX	COPPERHEAD	1	0	Commission
MntMitchSP	ARADE01020	AGKISTRODON PISCIVORUS	COTTONMOUTH	0	0	Agree Absent
MntMitchSP	ARADE02010	CROTALUS ADAMANTEUS	EASTERN DIAMONDBACK RATTLESNAKE	0	0	Agree Absent
MntMitchSP	ARADE02040	CROTALUS HORRIDUS	TIMBER RATTLESNAKE	1	0	Commission
MntMitchSP	ARADE03020	SISTRURUS MILIARIUS	PIGMY RATTLESNAKE	0	0	Agree Absent
PeeDeeNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	0	1	Omission
PeeDeeNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	0	0	Agree Absent
PeeDeeNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	0	0	Agree Absent
PeeDeeNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	0	1	Omission
PeeDeeNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	0	0	Agree Absent
PeeDeeNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
PeeDeeNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	0	1	Omission
PeeDeeNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	0	1	Omission
PeeDeeNWR	ABNGA06030	EGRETTA THULA	SNOWY EGRET	0	0	Agree Absent
PeeDeeNWR	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	0	1	Omission
PeeDeeNWR	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	0	0	Agree Absent
PeeDeeNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	0	1	Omission
PeeDeeNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
PeeDeeNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	0	0	Agree Absent
PeeDeeNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	0	Commission
PeeDeeNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	0	0	Agree Absent
PeeDeeNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	0	0	Agree Absent
PeeDeeNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	0	Commission
PeeDeeNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
PeeDeeNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	0	0	Agree Absent
PeeDeeNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	0	Commission
PeeDeeNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	0	1	Omission
PeeDeeNWR	ABNJB10160	ANAS STREPERA	GADWALL	0	0	Agree Absent
PeeDeeNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	0	0	Agree Absent
PeeDeeNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
PeeDeeNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
PeeDeeNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
PeeDeeNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	1	0	Commission
PeeDeeNWR	ABNKC10010	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	1	1	Agree Present
PeeDeeNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	0	0	Agree Absent

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PeeDeeNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	1	0	Commission
PeeDeeNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	1	Agree Present
PeeDeeNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
PeeDeeNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	1	1	Agree Present
PeeDeeNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
PeeDeeNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	1	Agree Present
PeeDeeNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
PeeDeeNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
PeeDeeNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
PeeDeeNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	0	Commission
PeeDeeNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
PeeDeeNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	0	0	Agree Absent
PeeDeeNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	0	0	Agree Absent
PeeDeeNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	0	Commission
PeeDeeNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	0	0	Agree Absent
PeeDeeNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	0	0	Agree Absent
PeeDeeNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	0	Agree Absent
PeeDeeNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
PeeDeeNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
PeeDeeNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
PeeDeeNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
PeeDeeNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	0	0	Agree Absent
PeeDeeNWR	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	0	0	Agree Absent
PeeDeeNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	0	Commission
PeeDeeNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	0	0	Agree Absent
PeeDeeNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	0	0	Agree Absent
PeeDeeNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	0	0	Agree Absent
PeeDeeNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	0	0	Agree Absent
PeeDeeNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent

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PeeDeeNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	0	0	Agree Absent
PeeDeeNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
PeeDeeNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
PeeDeeNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
PeeDeeNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
PeeDeeNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
PeeDeeNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
PeeDeeNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
PeeDeeNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
PeeDeeNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
PeeDeeNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
PeeDeeNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
PeeDeeNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
PeeDeeNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
PeeDeeNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
PeeDeeNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
PeeDeeNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	1	Omission
PeeDeeNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
PeeDeeNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
PeeDeeNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
PeeDeeNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
PeeDeeNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
PeeDeeNWR	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
PeeDeeNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
PeeDeeNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	1	Agree Present
PeeDeeNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
PeeDeeNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
PeeDeeNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	0	Commission
PeeDeeNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
PeeDeeNWR	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PeeDeeNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
PeeDeeNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	1	0	Commission
PeeDeeNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
PeeDeeNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
PeeDeeNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
PeeDeeNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	0	Commission
PeeDeeNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
PeeDeeNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
PeeDeeNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
PeeDeeNWR	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
PeeDeeNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
PeeDeeNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present
PeeDeeNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	1	Agree Present
PeeDeeNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
PeeDeeNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
PeeDeeNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
PeeDeeNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
PeeDeeNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	0	0	Agree Absent
PeeDeeNWR	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
PeeDeeNWR	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
PeeDeeNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
PeeDeeNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
PeeDeeNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
PeeDeeNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
PeeDeeNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
PeeDeeNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
PeeDeeNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
PeeDeeNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
PeeDeeNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	0	Commission
PeeDeeNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	1	1	Agree Present
PeeDeeNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
PeeDeeNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
PeeDeeNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	1	0	Commission
PeeDeeNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present
PeeDeeNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PeeDeeNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
PeeDeeNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
PeeDeeNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	1	Agree Present
PeeDeeNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
PeeDeeNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
PeeDeeNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	0	Commission
PeeDeeNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
PeeDeeNWR	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
PeeDeeNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
PeeDeeNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
PeeDeeNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
PeeDeeNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
PeeDeeNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	0	Commission
PeeDeeNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
PeeDeeNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
PeeDeeNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
PeeDeeNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
PeeDeeNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
PeeDeeNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
PeeDeeNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
PeeDeeNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent

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PeeDeeNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
PeeDeeNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
PeeDeeNWR	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
PeeDeeNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
PeeDeeNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
PeeDeeNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	1	1	Agree Present
PeeDeeNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	0	0	Agree Absent
PeeDeeNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	0	0	Agree Absent
PeeDeeNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	1	0	Commission
PeeDeeNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	1	Omission
PeeDeeNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
PeeDeeNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
PeeDeeNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
PeeDeeNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	0	0	Agree Absent
PeeDeeNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	0	Commission
PeeDeeNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
PeeDeeNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
PeeDeeNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	1	0	Commission
PeeDeeNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
PeeDeeNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
PeeDeeNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
PeeDeeNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
PeeDeeNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	0	Commission
PocoNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	0	Commission
PocoNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	1	0	Commission
PocoNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
PocoNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	0	Commission
PocoNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	1	1	Agree Present
PocoNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
PocoNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
PocoNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	1	Agree Present
PocoNWR	ABNGA06030	EGRETТА THULA	SNOWY EGRET	1	1	Agree Present
PocoNWR	ABNGA06040	EGRETТА CAERULEA	LITTLE BLUE HERON	1	1	Agree Present
PocoNWR	ABNGA06050	EGRETТА TRICOLOR	TRICOLORED HERON	1	1	Agree Present
PocoNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PocoNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
PocoNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	1	Agree Present
PocoNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	0	Commission
PocoNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	1	0	Commission
PocoNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	1	1	Agree Present
PocoNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	0	Commission
PocoNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
PocoNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	1	Agree Present
PocoNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
PocoNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	1	0	Commission
PocoNWR	ABNJB10160	ANAS STREPERA	GADWALL	1	0	Commission
PocoNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
PocoNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
PocoNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
PocoNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
PocoNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	0	0	Agree Absent
PocoNWR	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	0	Commission
PocoNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	1	0	Commission
PocoNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	0	Agree Absent
PocoNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	1	Agree Present
PocoNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
PocoNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	0	0	Agree Absent
PocoNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
PocoNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	0	Commission
PocoNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
PocoNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
PocoNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
PocoNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	0	Commission
PocoNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
PocoNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	1	0	Commission
PocoNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	1	0	Commission
PocoNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	1	Agree Present
PocoNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	1	0	Commission
PocoNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	0	Commission
PocoNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PocoNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
PocoNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
PocoNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
PocoNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
PocoNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	1	0	Commission
PocoNWR	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	1	0	Commission
PocoNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
PocoNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	1	Agree Present
PocoNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	1	1	Agree Present
PocoNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	1	0	Commission
PocoNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	1	0	Commission
PocoNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
PocoNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	1	0	Commission
PocoNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	1	0	Commission
PocoNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	1	1	Agree Present
PocoNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	1	0	Commission
PocoNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	1	0	Commission
PocoNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
PocoNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	1	0	Commission
PocoNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
PocoNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
PocoNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	1	0	Commission
PocoNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
PocoNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	1	Agree Present
PocoNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
PocoNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
PocoNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
PocoNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
PocoNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
PocoNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
PocoNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
PocoNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
PocoNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
PocoNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
PocoNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PocoNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
PocoNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	0	Agree Absent
PocoNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
PocoNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
PocoNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	1	0	Commission
PocoNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
PocoNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
PocoNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
PocoNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
PocoNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
PocoNWR	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
PocoNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
PocoNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	0	Commission
PocoNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
PocoNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
PocoNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	0	Commission
PocoNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present
PocoNWR	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	1	1	Agree Present
PocoNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
PocoNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	0	0	Agree Absent
PocoNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
PocoNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
PocoNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
PocoNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
PocoNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
PocoNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
PocoNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
PocoNWR	ABPAW01110	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
PocoNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
PocoNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	0	Commission
PocoNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	1	Agree Present
PocoNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
PocoNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
PocoNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	1	Agree Present
PocoNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PocoNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	1	Agree Present
PocoNWR	ABPBJ05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
PocoNWR	ABPBJ08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
PocoNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
PocoNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
PocoNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
PocoNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
PocoNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
PocoNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
PocoNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
PocoNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
PocoNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	0	Commission
PocoNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	1	1	Agree Present
PocoNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
PocoNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
PocoNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
PocoNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present
PocoNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
PocoNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
PocoNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
PocoNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
PocoNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
PocoNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	1	Agree Present
PocoNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
PocoNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
PocoNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
PocoNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
PocoNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
PocoNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
PocoNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
PocoNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	0	0	Agree Absent
PocoNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
PocoNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	1	Agree Present
PocoNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
PocoNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
PocoNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	1	Agree Present
PocoNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	0	Commission
PocoNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	0	Commission
PocoNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	0	Commission
PocoNWR	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
PocoNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
PocoNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
PocoNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
PocoNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
PocoNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	0	Commission
PocoNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
PocoNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
PocoNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
PocoNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
PocoNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	1	0	Commission
PocoNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
PocoNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present
PocoNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	1	0	Commission
PocoNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
PocoNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
PocoNWR	ABPBX95010	POECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
PocoNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
PocoNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
PocoNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	0	0	Agree Absent
PocoNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	1	0	Commission
PocoNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	1	0	Commission
PocoNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	0	1	Omission
PocoNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
PocoNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
PocoNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	1	Agree Present
PocoNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
PocoNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	0	Commission
PocoNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
PocoNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
PocoNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present

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PocoNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	0	Agree Absent
PocoNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	0	Commission
PocoNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
PocoNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
PocoNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	0	Commission
PocoNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	1	Agree Present
RoanokeNWR	ABNCA02010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	1	0	Commission
RoanokeNWR	ABNFC01020	PELECANUS OCCIDENTALIS	BROWN PELICAN	0	0	Agree Absent
RoanokeNWR	ABNFD01020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	1	1	Agree Present
RoanokeNWR	ABNFE01010	ANHINGA ANHINGA	ANHINGA	1	1	Agree Present
RoanokeNWR	ABNGA01020	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	0	0	Agree Absent
RoanokeNWR	ABNGA02010	IXOBRYCHUS EXILIS	LEAST BITTERN	1	1	Agree Present
RoanokeNWR	ABNGA04010	ARDEA HERODIAS	GREAT BLUE HERON	1	1	Agree Present
RoanokeNWR	ABNGA04040	ARDEA ALBA	GREAT EGRET	1	1	Agree Present
RoanokeNWR	ABNGA06030	EGRETTA THULA	SNOWY EGRET	0	1	Omission
RoanokeNWR	ABNGA06040	EGRETTA CAERULEA	LITTLE BLUE HERON	0	1	Omission
RoanokeNWR	ABNGA06050	EGRETTA TRICOLOR	TRICOLORED HERON	0	0	Agree Absent
RoanokeNWR	ABNGA07010	BUBULCUS IBIS	CATTLE EGRET	1	1	Agree Present
RoanokeNWR	ABNGA08010	BUTORIDES VIRESCENS	GREEN HERON	1	1	Agree Present
RoanokeNWR	ABNGA11010	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT-HERON	1	0	Commission
RoanokeNWR	ABNGA13010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT-HERON	1	1	Agree Present
RoanokeNWR	ABNGE01010	EUDOCIMUS ALBUS	WHITE IBIS	0	0	Agree Absent
RoanokeNWR	ABNGE02010	PLEGADIS FALCINELLUS	GLOSSY IBIS	0	0	Agree Absent
RoanokeNWR	ABNJB05030	BRANTA CANADENSIS	CANADA GOOSE	1	1	Agree Present
RoanokeNWR	ABNJB09010	AIX SPONSA	WOOD DUCK	1	1	Agree Present
RoanokeNWR	ABNJB10040	ANAS RUBRIPES	AMERICAN BLACK DUCK	1	0	Commission
RoanokeNWR	ABNJB10060	ANAS PLATYRHYNCHOS	MALLARD	1	1	Agree Present
RoanokeNWR	ABNJB10130	ANAS DISCORS	BLUE-WINGED TEAL	0	0	Agree Absent
RoanokeNWR	ABNJB10160	ANAS STREPERA	GADWALL	0	0	Agree Absent
RoanokeNWR	ABNJB20010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	1	0	Commission
RoanokeNWR	ABNKA01010	CORAGYPS ATRATUS	BLACK VULTURE	1	1	Agree Present
RoanokeNWR	ABNKA02010	CATHARTES AURA	TURKEY VULTURE	1	1	Agree Present
RoanokeNWR	ABNKC01010	PANDION HALIAETUS	OSPREY	1	1	Agree Present
RoanokeNWR	ABNKC09010	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	1	1	Agree Present
RoanokeNWR	ABNKC10010	HALIAETUS LEUCOCEPHALUS	BALD EAGLE	1	1	Agree Present

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RoanokeNWR	ABNKC11010	CIRCUS CYANEUS	NORTHERN HARRIER	0	0	Agree Absent
RoanokeNWR	ABNKC12020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	0	0	Agree Absent
RoanokeNWR	ABNKC12040	ACCIPITER COOPERII	COOPER'S HAWK	1	0	Commission
RoanokeNWR	ABNKC19030	BUTEO LINEATUS	RED-SHOULDERED HAWK	1	1	Agree Present
RoanokeNWR	ABNKC19050	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	1	0	Commission
RoanokeNWR	ABNKC19110	BUTEO JAMAICENSIS	RED-TAILED HAWK	1	1	Agree Present
RoanokeNWR	ABNKD06020	FALCO SPARVERIUS	AMERICAN KESTREL	1	0	Commission
RoanokeNWR	ABNKD06070	FALCO PEREGRINUS	PEREGRINE FALCON	0	0	Agree Absent
RoanokeNWR	ABNLC07010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	0	0	Agree Absent
RoanokeNWR	ABNLC11010	BONASA UMBELLUS	RUFFED GROUSE	0	0	Agree Absent
RoanokeNWR	ABNLC14010	MELEAGRIS GALLOPAVO	WILD TURKEY	1	1	Agree Present
RoanokeNWR	ABNLC21020	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	1	1	Agree Present
RoanokeNWR	ABNME03040	LATERALLUS JAMAICENSIS	BLACK RAIL	0	0	Agree Absent
RoanokeNWR	ABNME05010	RALLUS LONGIROSTRIS	CLAPPER RAIL	0	0	Agree Absent
RoanokeNWR	ABNME05020	RALLUS ELEGANS	KING RAIL	1	0	Commission
RoanokeNWR	ABNME05030	RALLUS LIMICOLA	VIRGINIA RAIL	0	0	Agree Absent
RoanokeNWR	ABNME13010	GALLINULA CHLOROPUS	COMMON MOORHEN	1	0	Commission
RoanokeNWR	ABNME14020	FULICA AMERICANA	AMERICAN COOT	0	0	Agree Absent
RoanokeNWR	ABNNB03040	CHARADRIUS WILSONIA	WILSON'S PLOVER	0	0	Agree Absent
RoanokeNWR	ABNNB03070	CHARADRIUS MELODUS	PIPING PLOVER	0	0	Agree Absent
RoanokeNWR	ABNNB03090	CHARADRIUS VOCIFERUS	KILLDEER	1	1	Agree Present
RoanokeNWR	ABNNC01010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	0	0	Agree Absent
RoanokeNWR	ABNND01010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	0	0	Agree Absent
RoanokeNWR	ABNNF02010	CATOPTROPHORUS SEMIPALMATUS	WILLET	0	0	Agree Absent
RoanokeNWR	ABNNF19020	SCOLOPAX MINOR	AMERICAN WOODCOCK	1	1	Agree Present
RoanokeNWR	ABNNM03010	LARUS ATRICILLA	LAUGHING GULL	1	0	Commission
RoanokeNWR	ABNNM03120	LARUS ARGENTATUS	HERRING GULL	0	0	Agree Absent
RoanokeNWR	ABNNM03210	LARUS MARINUS	GREAT BLACK-BACKED GULL	0	0	Agree Absent
RoanokeNWR	ABNNM08010	STERNA NILOTICA	GULL-BILLED TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08020	STERNA CASPIA	CASPIAN TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08030	STERNA MAXIMA	ROYAL TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08050	STERNA SANDVICENSIS	SANDWICH TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08070	STERNA HIRUNDO	COMMON TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08090	STERNA FORSTERI	FORSTER'S TERN	0	0	Agree Absent
RoanokeNWR	ABNNM08100	STERNA ANTILLARUM	LEAST TERN	0	0	Agree Absent

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
RoanokeNWR	ABNNM08150	STERNA FUSCATA	SOOTY TERN	0	0	Agree Absent
RoanokeNWR	ABNNM14010	RYNCHOPS NIGER	BLACK SKIMMER	0	0	Agree Absent
RoanokeNWR	ABNPB01010	COLUMBA LIVIA	ROCK DOVE	1	1	Agree Present
RoanokeNWR	ABNPB04040	ZENAIDA MACROURA	MOURNING DOVE	1	1	Agree Present
RoanokeNWR	ABNRB02010	COCCYZUS ERYTHROPTALMUS	BLACK-BILLED CUCKOO	0	0	Agree Absent
RoanokeNWR	ABNRB02020	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	1	1	Agree Present
RoanokeNWR	ABNSA01010	TYTO ALBA	BARN OWL	1	0	Commission
RoanokeNWR	ABNSB01030	OTUS ASIO	EASTERN SCREECH-OWL	1	1	Agree Present
RoanokeNWR	ABNSB05010	BUBO VIRGINIANUS	GREAT HORNED OWL	1	1	Agree Present
RoanokeNWR	ABNSB12020	STRIX VARIA	BARRED OWL	1	1	Agree Present
RoanokeNWR	ABNSB15020	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	0	0	Agree Absent
RoanokeNWR	ABNTA02020	CHORDEILES MINOR	COMMON NIGHTHAWK	1	1	Agree Present
RoanokeNWR	ABNTA07010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	1	1	Agree Present
RoanokeNWR	ABNTA07070	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	1	1	Agree Present
RoanokeNWR	ABNUA03010	CHAETURA PELAGICA	CHIMNEY SWIFT	1	1	Agree Present
RoanokeNWR	ABNUC45010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	1	1	Agree Present
RoanokeNWR	ABNXD01020	CERYLE ALCYON	BELTED KINGFISHER	1	1	Agree Present
RoanokeNWR	ABNYF04040	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	1	1	Agree Present
RoanokeNWR	ABNYF04170	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	1	1	Agree Present
RoanokeNWR	ABNYF05010	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	0	0	Agree Absent
RoanokeNWR	ABNYF07030	PICOIDES PUBESCENS	DOWNY WOODPECKER	1	1	Agree Present
RoanokeNWR	ABNYF07040	PICOIDES VILLOSUS	HAIRY WOODPECKER	1	1	Agree Present
RoanokeNWR	ABNYF07060	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	1	0	Commission
RoanokeNWR	ABNYF10020	COLAPTES AURATUS	NORTHERN FLICKER	1	1	Agree Present
RoanokeNWR	ABNYF12020	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	1	1	Agree Present
RoanokeNWR	ABPAE32060	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	1	1	Agree Present
RoanokeNWR	ABPAE33020	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	1	1	Agree Present
RoanokeNWR	ABPAE33030	EMPIDONAX ALNORUM	ALDER FLYCATCHER	0	0	Agree Absent
RoanokeNWR	ABPAE33040	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	0	0	Agree Absent
RoanokeNWR	ABPAE33070	EMPIDONAX MINIMUS	LEAST FLYCATCHER	0	0	Agree Absent
RoanokeNWR	ABPAE35020	SAYORNIS PHOEBE	EASTERN PHOEBE	1	1	Agree Present
RoanokeNWR	ABPAE43070	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	1	1	Agree Present
RoanokeNWR	ABPAE52060	TYRANNUS TYRANNUS	EASTERN KINGBIRD	1	1	Agree Present
RoanokeNWR	ABPAT02010	EREMOPHILA ALPESTRIS	HORNED LARK	1	0	Commission
RoanokeNWR	ABPAU01010	PROGNE SUBIS	PURPLE MARTIN	1	1	Agree Present

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RoanokeNWR	ABPAU03010	TACHYCINETA BICOLOR	TREE SWALLOW	0	0	Agree Absent
RoanokeNWR	ABPAU07010	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	1	1	Agree Present
RoanokeNWR	ABPAU09010	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	0	0	Agree Absent
RoanokeNWR	ABPAU09030	HIRUNDO RUSTICA	BARN SWALLOW	1	1	Agree Present
RoanokeNWR	ABPAV02020	CYANOCITTA CRISTATA	BLUE JAY	1	1	Agree Present
RoanokeNWR	ABPAV10010	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	1	1	Agree Present
RoanokeNWR	ABPAV10080	CORVUS OSSIFRAGUS	FISH CROW	1	1	Agree Present
RoanokeNWR	ABPAV10110	CORVUS CORAX	COMMON RAVEN	0	0	Agree Absent
RoanokeNWR	ABPAW01010	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	0	0	Agree Absent
RoanokeNWR	ABPAW01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	1	1	Agree Present
RoanokeNWR	ABPAW01110	BAELOPHUS BICOLOR	TUFTED TITMOUSE	1	1	Agree Present
RoanokeNWR	ABPAZ01010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	0	0	Agree Absent
RoanokeNWR	ABPAZ01020	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	1	1	Agree Present
RoanokeNWR	ABPAZ01040	SITTA PUSILLA	BROWN-HEADED NUTHATCH	1	1	Agree Present
RoanokeNWR	ABPBA01010	CERTHIA AMERICANA	BROWN CREEPER	0	0	Agree Absent
RoanokeNWR	ABPBG06130	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	1	1	Agree Present
RoanokeNWR	ABPBG09010	TROGLODYTES AEDON	HOUSE WREN	1	0	Commission
RoanokeNWR	ABPBG09050	TROGLODYTES TROGLODYTES	WINTER WREN	0	0	Agree Absent
RoanokeNWR	ABPBG10020	CISTOTHORUS PALUSTRIS	MARSH WREN	1	0	Commission
RoanokeNWR	ABPB05010	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	0	0	Agree Absent
RoanokeNWR	ABPB08010	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	1	1	Agree Present
RoanokeNWR	ABPBJ15010	SIALIA SIALIS	EASTERN BLUEBIRD	1	1	Agree Present
RoanokeNWR	ABPBJ18080	CATHARUS FUSCESCENS	VEERY	0	0	Agree Absent
RoanokeNWR	ABPBJ18110	CATHARUS GUTTATUS	HERMIT THRUSH	0	0	Agree Absent
RoanokeNWR	ABPBJ19010	HYLOCICHLA MUSTELINA	WOOD THRUSH	1	1	Agree Present
RoanokeNWR	ABPBJ20170	TURDUS MIGRATORIUS	AMERICAN ROBIN	1	1	Agree Present
RoanokeNWR	ABPBK01010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	1	1	Agree Present
RoanokeNWR	ABPBK03010	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	1	1	Agree Present
RoanokeNWR	ABPBK06010	TOXOSTOMA RUFUM	BROWN THRASHER	1	1	Agree Present
RoanokeNWR	ABPBN01020	BOMBYCILLA CEDRORUM	CEDAR WAXWING	1	0	Commission
RoanokeNWR	ABPBR01030	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	0	0	Agree Absent
RoanokeNWR	ABPBT01010	STURNUS VULGARIS	EUROPEAN STARLING	1	1	Agree Present
RoanokeNWR	ABPBW01020	VIREO GRISEUS	WHITE-EYED VIREO	1	1	Agree Present
RoanokeNWR	ABPBW01160	VIREO SOLITARIUS	BLUE-HEADED VIREO	0	0	Agree Absent
RoanokeNWR	ABPBW01170	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
RoanokeNWR	ABPBW01210	VIREO GILVUS	WARBLING VIREO	0	0	Agree Absent
RoanokeNWR	ABPBW01240	VIREO OLIVACEUS	RED-EYED VIREO	1	1	Agree Present
RoanokeNWR	ABPBX01020	VERMIVORA PINUS	BLUE-WINGED WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX01030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX02010	PARULA AMERICANA	NORTHERN PARULA	1	1	Agree Present
RoanokeNWR	ABPBX03010	DENDROICA PETECHIA	YELLOW WARBLER	1	0	Commission
RoanokeNWR	ABPBX03020	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX03050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX03100	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	1	0	Commission
RoanokeNWR	ABPBX03120	DENDROICA FUSCA	BLACKBURNIAN WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX03130	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX03170	DENDROICA PINUS	PINE WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX03190	DENDROICA DISCOLOR	PRAIRIE WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX03240	DENDROICA CERULEA	CERULEAN WARBLER	1	0	Commission
RoanokeNWR	ABPBX05010	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	1	0	Commission
RoanokeNWR	ABPBX06010	SETOPHAGA RUTICILLA	AMERICAN REDSTART	1	1	Agree Present
RoanokeNWR	ABPBX07010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX08010	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	1	0	Commission
RoanokeNWR	ABPBX09010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX10010	SEIURUS AUROCAPILLUS	OVENBIRD	1	1	Agree Present
RoanokeNWR	ABPBX10030	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	1	1	Agree Present
RoanokeNWR	ABPBX11010	OPORORNIS FORMOSUS	KENTUCKY WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX12010	GEOTHLYPIS TRICHAS	COMMON YELLOWTHROAT	1	1	Agree Present
RoanokeNWR	ABPBX16010	WILSONIA CITRINA	HOODED WARBLER	1	1	Agree Present
RoanokeNWR	ABPBX16030	WILSONIA CANADENSIS	CANADA WARBLER	0	0	Agree Absent
RoanokeNWR	ABPBX24010	ICTERIA VIRENS	YELLOW-BREASTED CHAT	1	1	Agree Present
RoanokeNWR	ABPBX45030	PIRANGA RUBRA	SUMMER TANAGER	1	1	Agree Present
RoanokeNWR	ABPBX45040	PIRANGA OLIVACEA	SCARLET TANAGER	1	1	Agree Present
RoanokeNWR	ABPBX60010	CARDINALIS CARDINALIS	NORTHERN CARDINAL	1	1	Agree Present
RoanokeNWR	ABPBX61030	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	0	0	Agree Absent
RoanokeNWR	ABPBX63010	GUIRACA CAERULEA	BLUE GROSBEAK	1	1	Agree Present
RoanokeNWR	ABPBX64030	PASSERINA CYANEA	INDIGO BUNTING	1	1	Agree Present
RoanokeNWR	ABPBX64060	PASSERINA CIRIS	PAINTED BUNTING	0	0	Agree Absent
RoanokeNWR	ABPBX65010	SPIZA AMERICANA	DICKCISSEL	1	0	Commission
RoanokeNWR	ABPBX74030	PIPILO ERYTHROPHthalmus	EASTERN TOWHEE	1	1	Agree Present

Site	EICode	Scientific Name	Common Name	Model	Site	Comparison
RoanokeNWR	ABPBX91050	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBX94020	SPIZELLA PASSERINA	CHIPPING SPARROW	1	1	Agree Present
RoanokeNWR	ABPBX94050	SPIZELLA PUSILLA	FIELD SPARROW	1	1	Agree Present
RoanokeNWR	ABPBX95010	POOECETES GRAMINEUS	VESPER SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBX96010	CHONDESTES GRAMMACUS	LARK SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBX99010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBXA0020	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	1	0	Commission
RoanokeNWR	ABPBXA0030	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	1	0	Commission
RoanokeNWR	ABPBXA0060	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBXA3010	MELOSPIZA MELODIA	SONG SPARROW	0	0	Agree Absent
RoanokeNWR	ABPBXA5020	JUNCO HYEMALIS	DARK-EYED JUNCO	0	0	Agree Absent
RoanokeNWR	ABPBXA9010	DOLICHONYX ORYZIVORUS	BOBOLINK	0	0	Agree Absent
RoanokeNWR	ABPBXB0010	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	1	0	Commission
RoanokeNWR	ABPBXB2020	STURNELLA MAGNA	EASTERN MEADOWLARK	1	1	Agree Present
RoanokeNWR	ABPBXB6060	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	1	0	Commission
RoanokeNWR	ABPBXB6070	QUISCALUS QUISCULA	COMMON GRACKLE	1	1	Agree Present
RoanokeNWR	ABPBXB7030	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	1	1	Agree Present
RoanokeNWR	ABPBXB9070	ICTERUS SPURIUS	ORCHARD ORIOLE	1	1	Agree Present
RoanokeNWR	ABPBXB9190	ICTERUS GALBULA	BALTIMORE ORIOLE	0	0	Agree Absent
RoanokeNWR	ABPBY04040	CARPODACUS MEXICANUS	HOUSE FINCH	1	1	Agree Present
RoanokeNWR	ABPBY05010	LOXIA CURVIROSTRA	RED CROSSBILL	0	0	Agree Absent
RoanokeNWR	ABPBY06030	CARDUELIS PINUS	PINE SISKIN	0	0	Agree Absent
RoanokeNWR	ABPBY06110	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	1	1	Agree Present
RoanokeNWR	ABPBZ01010	PASSER DOMESTICUS	HOUSE SPARROW	1	0	Commission

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Amph	AAAAD06020	GYRINOPHILUS PORPHYRITICUS	SPRING SALAMANDER	3	100	0	0
Amph	AAAAD08010	HEMIDACTYLIUM SCUTATUM	FOUR-TOED SALAMANDER	3	67	0	33
Amph	AAAAD10010	LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER	3	33	33	33
Amph	AAAAD12020	PLETHODON CINEREUS	REDBACK SALAMANDER	3	67	0	33
Amph	AAAAD12070	PLETHODON GLUTINOSUS	SLIMY SALAMANDER	3	33	0	67
Amph	AAAAD12090	PLETHODON JORDANI	JORDAN'S SALAMANDER	3	100	0	0
Amph	AAAAD12150	PLETHODON RICHMONDI	RAVINE SALAMANDER	3	67	0	33
Amph	AAAAD12160	PLETHODON SERRATUS	SOUTHERN REDBACK SALAMANDER	3	100	0	0
Amph	AAAAD12220	PLETHODON WEHRLEI	WEHRLE'S SALAMANDER	3	100	0	0
Amph	AAAAD12230	PLETHODON WELLERI	WELLER'S SALAMANDER	3	67	0	33
Amph	AAAAD12240	PLETHODON YONAHLOSSEE	YONAHLOSSEE SALAMANDER	3	100	0	0
Amph	AAAAD12250	PLETHODON AUREOLUS	TELLICO SALAMANDER	3	67	0	33
Amph	AAAAD12300	PLETHODON TEYAHALEE	SOUTHERN APPALACHIAN SALAMANDER	3	100	0	0
Amph	AAAAD12370	PLETHODON VENTRALIS	SOUTHERN ZIGZAG SALAMANDER	3	33	0	67
Amph	AAAAD13010	PSEUDOTRITON MONTANUS	MUD SALAMANDER	3	67	0	33
Amph	AAAAD13020	PSEUDOTRITON RUBER	RED SALAMANDER	3	67	0	33
Amph	AAAAD14010	STEREOCHILUS MARGINATUS	MANY-LINED SALAMANDER	3	67	0	33
Amph	AAAAE01030	NECTURUS LEWISI	NEUSE RIVER WATERDOG	3	100	0	0
Amph	AAAAE01040	NECTURUS MACULOSUS	MUDPUPPY	3	67	33	0
Amph	AAAAE01050	NECTURUS PUNCTATUS	DWARF WATERDOG	3	67	0	33
Amph	AAAAF01030	NOTOPHTHALMUS VIRIDESCENS	EASTERN NEWT	3	67	0	33
Amph	AAAAG02010	SIREN INTERMEDIA	LESSER SIREN	3	67	0	33
Amph	AAAAG02020	SIREN LACERTINA	GREATER SIREN	3	67	0	33
Amph	AAABB01020	BUFO AMERICANUS	AMERICAN TOAD	3	100	0	0
Amph	AAABB01130	BUFO QUERCICUS	OAK TOAD	3	67	0	33
Amph	AAABB01160	BUFO TERRESTRIS	SOUTHERN TOAD	3	67	0	33
Amph	AAABB01210	BUFO FOWLERI	FOWLER'S TOAD	3	0	0	100
Amph	AAABC01010	ACRIS CREPITANS	NORTHERN CRICKET FROG	3	100	0	0
Amph	AAABC01020	ACRIS GRILLUS	SOUTHERN CRICKET FROG	3	67	0	33

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Amph	AAABC02010	HYLA ANDERSONII	PINE BARRENS TREEFROG	3	100	0	0
Amph	AAABC02050	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG	3	33	0	67
Amph	AAABC02060	HYLA CINEREA	GREEN TREEFROG	3	100	0	0
Amph	AAABC02090	HYLA FEMORALIS	PINE WOODS TREEFROG	3	67	0	33
Amph	AAABC02100	HYLA GRATIOSA	BARKING TREEFROG	3	67	0	33
Amph	AAABC02120	HYLA SQUIRELLA	SQUIRREL TREEFROG	3	100	0	0
Amph	AAABC02130	HYLA VERSICOLOR	GRAY TREEFROG	3	100	0	0
Amph	AAABC05020	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG	3	100	0	0
Amph	AAABC05040	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG	3	100	0	0
Amph	AAABC05050	PSEUDACRIS ORNATA	ORNATE CHORUS FROG	3	100	0	0
Amph	AAABC05070	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG	3	67	33	0
Amph	AAABC05090	PSEUDACRIS CRUCIFER	SPRING PEEPER	3	67	0	33
Amph	AAABC05110	PSEUDACRIS OCULARIS	LITTLE GRASS FROG	3	67	0	33
Amph	AAABE01010	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD	3	67	33	0
Amph	AAABF01040	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT	3	100	0	0
Amph	AAABH01070	RANA CATESBEIANA	BULLFROG	3	33	0	67
Amph	AAABH01090	RANA CLAMITANS	GREEN FROG	3	33	0	67
Amph	AAABH01160	RANA PALUSTRIS	PICKEREL FROG	3	33	0	67
Amph	AAABH01200	RANA SYLVATICA	WOOD FROG	3	100	0	0
Amph	AAABH01220	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG	3	67	33	0
Amph	AAABH01230	RANA VIRGATIPES	CARPENTER FROG	3	67	0	33
Amph	AAABH01270	RANA CAPITO	GOPHER FROG	3	100	0	0
Aves	ABNCA02010	BUFO AMERICANUS	AMERICAN TOAD	11	55	18	27
Aves	ABNFC01020	BUFO QUERCICUS	OAK TOAD	11	73	0	27
Aves	ABNFD01020	BUFO TERRESTRIS	SOUTHERN TOAD	11	91	9	0
Aves	ABNFE01010	BUFO FOWLERI	FOWLER'S TOAD	11	36	9	55
Aves	ABNGA01020	ACRIS CREPITANS	NORTHERN CRICKET FROG	11	82	9	9
Aves	ABNGA02010	ACRIS GRYPHUS	SOUTHERN CRICKET FROG	11	91	9	0
Aves	ABNGA04010	HYLA ANDERSONII	PINE BARRENS TREEFROG	11	82	18	0
Aves	ABNGA04040	HYLA CHRYSOSCELIS	COPE'S GRAY TREEFROG	11	64	18	18
Aves	ABNGA06030	HYLA CINEREA	GREEN TREEFROG	11	91	9	0
Aves	ABNGA06040	HYLA FEMORALIS	PINE WOODS TREEFROG	11	73	27	0

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABNGA06050	HYLA GRATIOSA	BARKING TREEFROG	11	100	0	0
Aves	ABNGA07010	HYLA SQUIRELLA	SQUIRREL TREEFROG	11	91	9	0
Aves	ABNGA08010	HYLA VERSICOLOR	GRAY TREEFROG	11	73	0	27
Aves	ABNGA11010	PSEUDACRIS BRIMLEYI	BRIMLEY'S CHORUS FROG	11	82	9	9
Aves	ABNGA13010	PSEUDACRIS NIGRITA	SOUTHERN CHORUS FROG	11	45	9	45
Aves	ABNGE01010	PSEUDACRIS ORNATA	ORNATE CHORUS FROG	11	73	0	27
Aves	ABNGE02010	PSEUDACRIS TRISERIATA	UPLAND CHORUS FROG	11	91	0	9
Aves	ABNJB05030	PSEUDACRIS CRUCIFER	SPRING PEEPER	11	73	0	27
Aves	ABNJB09010	PSEUDACRIS OCULARIS	LITTLE GRASS FROG	11	82	9	9
Aves	ABNJB10040	GASTROPHRYNE CAROLINENSIS	EASTERN NARROWMOUTH TOAD	11	91	0	9
Aves	ABNJB10060	SCAPHIOPUS HOLBROOKII	EASTERN SPADEFOOT	11	73	0	27
Aves	ABNJB10130	RANA CATESBEIANA	BULLFROG	11	55	9	36
Aves	ABNJB10160	RANA CLAMITANS	GREEN FROG	11	73	0	27
Aves	ABNJB20010	RANA PALUSTRIS	PICKEREL FROG	11	45	0	55
Aves	ABNKA01010	RANA SYLVATICA	WOOD FROG	11	73	0	27
Aves	ABNKA02010	RANA SPHENOCEPHALA	SOUTHERN LEOPARD FROG	11	82	0	18
Aves	ABNKC01010	RANA VIRGATIPES	CARPENTER FROG	11	91	9	0
Aves	ABNKC09010	RANA CAPITO	GOPHER FROG	11	82	9	9
Aves	ABNKC10010	PODILYMBUS PODICEPS	PIED-BILLED GREBE	11	64	9	27
Aves	ABNKC11010	PELECANUS OCCIDENTALIS	BROWN PELICAN	11	73	0	27
Aves	ABNKC12020	PHALACROCORAX AURITUS	DOUBLE-CRESTED CORMORANT	11	64	27	9
Aves	ABNKC12040	ANHINGA ANHINGA	ANHINGA	11	73	18	9
Aves	ABNKC19030	BOTAURUS LENTIGINOSUS	AMERICAN BITTERN	11	82	9	9
Aves	ABNKC19050	IXOBRYCHUS EXILIS	LEAST BITTERN	11	73	18	9
Aves	ABNKC19110	ARDEA HERODIAS	GREAT BLUE HERON	11	82	0	18
Aves	ABNKD06020	ARDEA ALBA	GREAT EGRET	11	55	0	45
Aves	ABNKD06070	EGRETTA THULA	SNOWY EGRET	11	82	9	9
Aves	ABNLC07010	EGRETTA CAERULEA	LITTLE BLUE HERON	11	100	0	0
Aves	ABNLC11010	EGRETTA TRICOLOR	TRICOLORED HERON	11	100	0	0
Aves	ABNLC14010	BUBULCUS IBIS	CATTLE EGRET	11	73	0	27
Aves	ABNLC21020	BUTORIDES VIRESCENS	GREEN HERON	11	100	0	0

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABNME03040	NYCTICORAX NYCTICORAX	BLACK-CROWNED NIGHT- HERON	11	73	0	27
Aves	ABNME05010	NYCTANASSA VIOLACEA	YELLOW-CROWNED NIGHT- HERON	11	82	0	18
Aves	ABNME05020	EUDOCIMUS ALBUS	WHITE IBIS	11	73	9	18
Aves	ABNME05030	PLEGADIS FALCINELLUS	GLOSSY IBIS	11	73	9	18
Aves	ABNME13010	BRANTA CANADENSIS	CANADA GOOSE	11	64	9	27
Aves	ABNME14020	AIX SPONSA	WOOD DUCK	11	45	36	18
Aves	ABNNB03040	ANAS RUBRIPES	AMERICAN BLACK DUCK	11	100	0	0
Aves	ABNNB03070	ANAS PLATYRHYNCHOS	MALLARD	11	100	0	0
Aves	ABNNB03090	ANAS DISCORS	BLUE-WINGED TEAL	11	91	0	9
Aves	ABNNC01010	ANAS STREPERA	GADWALL	11	91	0	9
Aves	ABNND01010	LOPHODYTES CUCULLATUS	HOODED MERGANSER	11	73	0	27
Aves	ABNNF02010	CORAGYPS ATRATUS	BLACK VULTURE	11	73	9	18
Aves	ABNNF19020	CATHARTES AURA	TURKEY VULTURE	11	55	0	45
Aves	ABNNM03010	PANDION HALIAETUS	OSPREY	11	82	9	9
Aves	ABNNM03120	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE	11	91	0	9
Aves	ABNNM03210	HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	11	64	0	36
Aves	ABNNM08010	CIRCUS CYANEUS	NORTHERN HARRIER	11	73	0	27
Aves	ABNNM08020	ACCIPITER STRIATUS	SHARP-SHINNED HAWK	11	73	9	18
Aves	ABNNM08030	ACCIPITER COOPERII	COOPER'S HAWK	11	82	0	18
Aves	ABNNM08050	BUTEO LINEATUS	RED-SHOULDERED HAWK	11	64	0	36
Aves	ABNNM08070	BUTEO PLATYPTERUS	BROAD-WINGED HAWK	11	91	0	9
Aves	ABNNM08090	BUTEO JAMAICENSIS	RED-TAILED HAWK	11	73	0	27
Aves	ABNNM08100	FALCO SPARVERIUS	AMERICAN KESTREL	11	91	0	9
Aves	ABNNM08150	FALCO PEREGRINUS	PEREGRINE FALCON	11	91	9	0
Aves	ABNNM14010	PHASIANUS COLCHICUS	RING-NECKED PHEASANT	11	82	0	18
Aves	ABNPB01010	BONASA UMBELLUS	RUFFED GROUSE	11	73	9	18
Aves	ABNPB04040	MELEAGRIS GALLOPAVO	WILD TURKEY	11	100	0	0
Aves	ABNRB02010	COLINUS VIRGINIANUS	NORTHERN BOBWHITE	11	73	9	18
Aves	ABNRB02020	LATERALLUS JAMAICENSIS	BLACK RAIL	11	100	0	0
Aves	ABNSA01010	RALLUS LONGIROSTRIS	CLAPPER RAIL	11	64	0	36
Aves	ABNSB01030	RALLUS ELEGANS	KING RAIL	11	91	0	9

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABNSB05010	RALLUS LIMICOLA	VIRGINIA RAIL	11	91	0	9
Aves	ABNSB12020	GALLINULA CHLOROPUS	COMMON MOORHEN	11	73	0	27
Aves	ABNSB15020	FULICA AMERICANA	AMERICAN COOT	11	91	9	0
Aves	ABNTA02020	CHARADRIUS WILSONIA	WILSON'S PLOVER	11	64	18	18
Aves	ABNTA07010	CHARADRIUS MELODUS	PIPING PLOVER	11	91	9	0
Aves	ABNTA07070	CHARADRIUS VOCIFERUS	KILLDEER	11	73	0	27
Aves	ABNUA03010	HAEMATOPUS PALLIATUS	AMERICAN OYSTERCATCHER	11	91	0	9
Aves	ABNUC45010	HIMANTOPUS MEXICANUS	BLACK-NECKED STILT	11	100	0	0
Aves	ABNXD01020	CATOPTROPHORUS SEMIPALMATUS	WILLET	11	82	9	9
Aves	ABNYF04040	SCOLOPAX MINOR	AMERICAN WOODCOCK	11	82	9	9
Aves	ABNYF04170	LARUS ATRICILLA	LAUGHING GULL	11	100	0	0
Aves	ABNYF05010	LARUS ARGENTATUS	HERRING GULL	11	64	27	9
Aves	ABNYF07030	LARUS MARINUS	GREAT BLACK-BACKED GULL	11	100	0	0
Aves	ABNYF07040	STERNA NILOTICA	GULL-BILLED TERN	11	82	0	18
Aves	ABNYF07060	STERNA CASPIA	CASPIAN TERN	11	55	9	36
Aves	ABNYF10020	STERNA MAXIMA	ROYAL TERN	11	91	9	0
Aves	ABNYF12020	STERNA SANDVICENSIS	SANDWICH TERN	11	73	9	18
Aves	ABPAE32060	STERNA HIRUNDO	COMMON TERN	11	100	0	0
Aves	ABPAE33020	STERNA FORSTERI	FORSTER'S TERN	11	73	9	18
Aves	ABPAE33030	STERNA ANTILLARUM	LEAST TERN	11	91	0	9
Aves	ABPAE33040	STERNA FUSCATA	SOOTY TERN	11	100	0	0
Aves	ABPAE33070	RYNCHOPS NIGER	BLACK SKIMMER	11	100	0	0
Aves	ABPAE35020	COLUMBA LIVIA	ROCK DOVE	11	73	9	18
Aves	ABPAE43070	ZENAIDA MACROURA	MOURNING DOVE	11	100	0	0
Aves	ABPAE52060	COCCYZUS ERYTHROPHALMUS	BLACK-BILLED CUCKOO	11	91	9	0
Aves	ABPAT02010	COCCYZUS AMERICANUS	YELLOW-BILLED CUCKOO	11	55	0	45
Aves	ABPAU01010	TYTO ALBA	BARN OWL	11	91	0	9
Aves	ABPAU03010	OTUS ASIO	EASTERN SCREECH-OWL	11	73	0	27
Aves	ABPAU07010	BUBO VIRGINIANUS	GREAT HORNED OWL	11	64	0	36
Aves	ABPAU09010	STRIX VARIA	BARRED OWL	11	64	0	36
Aves	ABPAU09030	AEGOLIUS ACADICUS	NORTHERN SAW-WHET OWL	11	82	0	18
Aves	ABPAV02020	CHORDEILES MINOR	COMMON NIGHTHAWK	11	91	0	9

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABPAV10010	CAPRIMULGUS CAROLINENSIS	CHUCK-WILL'S-WIDOW	11	100	0	0
Aves	ABPAV10080	CAPRIMULGUS VOCIFERUS	WHIP-POOR-WILL	11	91	0	9
Aves	ABPAV10110	CHAETURA PELAGICA	CHIMNEY SWIFT	11	100	0	0
Aves	ABPAW01010	ARCHILOCHUS COLUBRIS	RUBY-THROATED HUMMINGBIRD	11	82	18	0
Aves	ABPAW01020	CERYLE ALCYON	BELTED KINGFISHER	11	91	9	0
Aves	ABPAW01110	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER	11	82	9	9
Aves	ABPAZ01010	MELANERPES CAROLINUS	RED-BELLIED WOODPECKER	11	91	9	0
Aves	ABPAZ01020	SPHYRAPICUS VARIUS	YELLOW-BELLIED SAPSUCKER	11	64	0	36
Aves	ABPAZ01040	PICOIDES PUBESCENS	DOWNY WOODPECKER	11	82	0	18
Aves	ABPBA01010	PICOIDES VILLOSUS	HAIRY WOODPECKER	11	91	9	0
Aves	ABPBG06130	PICOIDES BOREALIS	RED-COCKADED WOODPECKER	11	91	9	0
Aves	ABPBG09010	COLAPTES AURATUS	NORTHERN FLICKER	11	82	0	18
Aves	ABPBG09050	DRYOCOPUS PILEATUS	PILEATED WOODPECKER	11	91	9	0
Aves	ABPBG10020	CONTOPUS VIRENS	EASTERN WOOD-PEWEE	11	82	9	9
Aves	ABPBJ05010	EMPIDONAX VIRESCENS	ACADIAN FLYCATCHER	11	91	9	0
Aves	ABPBJ08010	EMPIDONAX ALNORUM	ALDER FLYCATCHER	11	82	0	18
Aves	ABPBJ15010	EMPIDONAX TRAILLII	WILLOW FLYCATCHER	11	82	9	9
Aves	ABPBJ18080	EMPIDONAX MINIMUS	LEAST FLYCATCHER	11	91	9	0
Aves	ABPBJ18110	SAYORNIS PHOEBE	EASTERN PHOEBE	11	82	9	9
Aves	ABPBJ19010	MYIARCHUS CRINITUS	GREAT CRESTED FLYCATCHER	11	91	0	9
Aves	ABPBJ20170	TYRANNUS TYRANNUS	EASTERN KINGBIRD	11	91	0	9
Aves	ABPBK01010	EREMOPHILA ALPESTRIS	HORNED LARK	11	91	0	9
Aves	ABPBK03010	PROGNE SUBIS	PURPLE MARTIN	11	100	0	0
Aves	ABPBK06010	TACHYCINETA BICOLOR	TREE SWALLOW	11	91	0	9
Aves	ABPBN01020	STELGIDOPTERYX SERRIPENNIS	NORTHERN ROUGH-WINGED SWALLOW	11	36	18	45
Aves	ABPBR01030	PETROCHELIDON PYRRHONOTA	CLIFF SWALLOW	11	82	9	9
Aves	ABPBT01010	HIRUNDO RUSTICA	BARN SWALLOW	11	82	0	18
Aves	ABPBW01020	CYANOCITTA CRISTATA	BLUE JAY	11	100	0	0
Aves	ABPBW01160	CORVUS BRACHYRHYNCHOS	AMERICAN CROW	11	82	9	9
Aves	ABPBW01170	CORVUS OSSIFRAGUS	FISH CROW	11	73	9	18

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABPBW01210	CORVUS CORAX	COMMON RAVEN	11	73	0	27
Aves	ABPBW01240	POECILE ATRICAPILLUS	BLACK-CAPPED CHICKADEE	11	100	0	0
Aves	ABPBX01020	POECILE CAROLINENSIS	CAROLINA CHICKADEE	11	100	0	0
Aves	ABPBX01030	BAEOLOPHUS BICOLOR	TUFTED TITMOUSE	11	100	0	0
Aves	ABPBX02010	SITTA CANADENSIS	RED-BREASTED NUTHATCH	11	64	18	18
Aves	ABPBX03010	SITTA CAROLINENSIS	WHITE-BREASTED NUTHATCH	11	73	9	18
Aves	ABPBX03020	SITTA PUSILLA	BROWN-HEADED NUTHATCH	11	91	9	0
Aves	ABPBX03050	CERTHIA AMERICANA	BROWN CREEPER	11	91	9	0
Aves	ABPBX03100	THRYOTHORUS LUDOVICIANUS	CAROLINA WREN	11	45	0	55
Aves	ABPBX03120	TROGLODYTES AEDON	HOUSE WREN	11	82	9	9
Aves	ABPBX03130	TROGLODYTES TROGLODYTES	WINTER WREN	11	82	9	9
Aves	ABPBX03170	CISTOTHORUS PALUSTRIS	MARSH WREN	11	82	9	9
Aves	ABPBX03190	REGULUS SATRAPA	GOLDEN-CROWNED KINGLET	11	82	0	18
Aves	ABPBX03240	POLIOPTILA CAERULEA	BLUE-GRAY GNATCATCHER	11	73	0	27
Aves	ABPBX05010	SIALIA SIALIS	EASTERN BLUEBIRD	11	45	0	55
Aves	ABPBX06010	CATHARUS FUSCESCENS	VEERY	11	55	18	27
Aves	ABPBX07010	CATHARUS GUTTATUS	HERMIT THRUSH	11	73	27	0
Aves	ABPBX08010	HYLOCICHLA MUSTELINA	WOOD THRUSH	11	27	9	64
Aves	ABPBX09010	TURDUS MIGRATORIUS	AMERICAN ROBIN	11	64	9	27
Aves	ABPBX10010	DUMETELLA CAROLINENSIS	GRAY CATBIRD	11	73	0	27
Aves	ABPBX10030	MIMUS POLYGLOTTOS	NORTHERN MOCKINGBIRD	11	55	0	45
Aves	ABPBX11010	TOXOSTOMA RUFUM	BROWN THRASHER	11	36	0	64
Aves	ABPBX12010	BOMBYCILLA CEDRORUM	CEDAR WAXWING	11	91	0	9
Aves	ABPBX16010	LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE	11	91	0	9
Aves	ABPBX16030	STURNUS VULGARIS	EUROPEAN STARLING	11	91	9	0
Aves	ABPBX24010	VIREO GRISEUS	WHITE-EYED VIREO	11	64	0	36
Aves	ABPBX45030	VIREO SOLITARIUS	BLUE-HEADED VIREO	11	64	9	27
Aves	ABPBX45040	VIREO FLAVIFRONS	YELLOW-THROATED VIREO	11	64	9	27
Aves	ABPBX60010	VIREO GILVUS	WARBLING VIREO	11	100	0	0
Aves	ABPBX61030	VIREO OLIVACEUS	RED-EYED VIREO	11	91	9	0
Aves	ABPBX63010	VERMIVORA PINUS	BLUE-WINGED WARBLER	11	82	9	9
Aves	ABPBX64030	VERMIVORA CHRYSOPTERA	GOLDEN-WINGED WARBLER	11	91	9	0

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Aves	ABPBX64060	PARULA AMERICANA	NORTHERN PARULA	11	82	0	18
Aves	ABPBX65010	DENDROICA PETECHIA	YELLOW WARBLER	11	36	0	64
Aves	ABPBX74030	DENDROICA PENNSYLVANICA	CHESTNUT-SIDED WARBLER	11	91	0	9
Aves	ABPBX91050	DENDROICA CAERULESCENS	BLACK-THROATED BLUE WARBLER	11	73	9	18
Aves	ABPBX94020	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER	11	73	9	18
Aves	ABPBX94050	DENDROICA FUSCA	BLACKBURNIAN WARBLER	11	91	0	9
Aves	ABPBX95010	DENDROICA DOMINICA	YELLOW-THROATED WARBLER	11	82	9	9
Aves	ABPBX96010	DENDROICA PINUS	PINE WARBLER	11	73	27	0
Aves	ABPBX99010	DENDROICA DISCOLOR	PRAIRIE WARBLER	11	73	27	0
Aves	ABPBXA0020	DENDROICA CERULEA	CERULEAN WARBLER	11	73	9	18
Aves	ABPBXA0030	MNIOTILTA VARIA	BLACK-AND-WHITE WARBLER	11	45	9	45
Aves	ABPBXA0060	SETOPHAGA RUTICILLA	AMERICAN REDSTART	11	82	0	18
Aves	ABPBXA3010	PROTONOTARIA CITREA	PROTHONOTARY WARBLER	11	64	9	27
Aves	ABPBXA5020	HELMITHEROS VERMIVORUS	WORM-EATING WARBLER	11	82	18	0
Aves	ABPBXA9010	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER	11	64	18	18
Aves	ABPBXB0010	SEIURUS AUROCAPILLUS	OVENBIRD	11	82	0	18
Aves	ABPBXB2020	SEIURUS MOTACILLA	LOUISIANA WATERTHRUSH	11	100	0	0
Aves	ABPBXB6060	OPORORNIS FORMOSUS	KENTUCKY WARBLER	11	82	0	18
Aves	ABPBXB6070	GEOHLYPIS TRICHAS	COMMON YELLOWTHROAT	11	91	0	9
Aves	ABPBXB7030	WILSONIA CITRINA	HOODED WARBLER	11	82	9	9
Aves	ABPBXB9070	WILSONIA CANADENSIS	CANADA WARBLER	11	91	9	0
Aves	ABPBXB9190	ICTERIA VIRENS	YELLOW-BREASTED CHAT	11	64	18	18
Aves	ABPBY04040	PIRANGA RUBRA	SUMMER TANAGER	11	36	0	64
Aves	ABPBY05010	PIRANGA OLIVACEA	SCARLET TANAGER	11	100	0	0
Aves	ABPBY06030	CARDINALIS CARDINALIS	NORTHERN CARDINAL	11	82	9	9
Aves	ABPBY06110	PHEUCTICUS LUDOVICIANUS	ROSE-BREASTED GROSBEAK	11	73	0	27
Aves	ABPBZ01010	GUIRACA CAERULEA	BLUE GROSBEAK	11	64	0	36
Mamm	AMAAA01010	PASSERINA CYANEA	INDIGO BUNTING	3	67	0	33
Mamm	AMABA01010	PASSERINA CIRIS	PAINTED BUNTING	3	100	0	0
Mamm	AMABA01060	SPIZA AMERICANA	DICKCISSEL	3	33	0	67
Mamm	AMABA01150	PIPILO	EASTERN TOWHEE	3	67	0	33

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
		ERYTHROPHthalmus					
Mamm	AMABA01180	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW	3	100	0	0
Mamm	AMABA01210	SPIZELLA PASSERINA	CHIPPING SPARROW	3	100	0	0
Mamm	AMABA01250	SPIZELLA PUSILLA	FIELD SPARROW	3	67	0	33
Mamm	AMABA03010	POOECETES GRAMINEUS	VESPER SPARROW	3	67	0	33
Mamm	AMABA03020	CHONDESTES GRAMMACUS	LARK SPARROW	3	67	0	33
Mamm	AMABA04010	PASSERCULUS SANDWICHENSIS	SAVANNAH SPARROW	3	67	0	33
Mamm	AMABB03010	AMMODRAMUS SAVANNARUM	GRASSHOPPER SPARROW	3	67	0	33
Mamm	AMABB04010	AMMODRAMUS HENSLOWII	HENSLOW'S SPARROW	3	67	0	33
Mamm	AMABB05010	AMMODRAMUS MARITIMUS	SEASIDE SPARROW	3	67	0	33
Mamm	AMACC01010	MELOSPIZA MELODIA	SONG SPARROW	3	100	0	0
Mamm	AMACC01030	JUNCO HYEMALIS	DARK-EYED JUNCO	3	100	0	0
Mamm	AMACC01100	DOLICHONYX ORYZIVORUS	BOBOLINK	3	67	0	33
Mamm	AMACC01130	AGELAIUS PHOENICEUS	RED-WINGED BLACKBIRD	3	67	0	33
Mamm	AMACC01150	STURNELLA MAGNA	EASTERN MEADOWLARK	3	33	0	67
Mamm	AMACC03020	QUISCALUS MAJOR	BOAT-TAILED GRACKLE	3	67	0	33
Mamm	AMACC04010	QUISCALUS QUISCULA	COMMON GRACKLE	3	33	0	67
Mamm	AMACC05010	MOLOTHRUS ATER	BROWN-HEADED COWBIRD	3	33	0	67
Mamm	AMACC05020	ICTERUS SPURIUS	ORCHARD ORIOLE	3	67	0	33
Mamm	AMACC06010	ICTERUS GALBULA	BALTIMORE ORIOLE	3	0	0	100
Mamm	AMACC08010	CARPODACUS MEXICANUS	HOUSE FINCH	3	67	0	33
Mamm	AMACC08020	LOXIA CURVIROSTRA	RED CROSSBILL	3	67	0	33
Mamm	AMACD01010	CARDUELIS PINUS	PINE SISKIN	3	67	0	33
Mamm	AMAEB01030	CARDUELIS TRISTIS	AMERICAN GOLDFINCH	3	100	0	0
Mamm	AMAEB01040	PASSER DOMESTICUS	HOUSE SPARROW	3	100	0	0
Mamm	AMAEB01090	DIDELPHIS VIRGINIANA	VIRGINIA OPOSSUM	3	67	0	33
Mamm	AMAFB02230	SOREX CINEREUS	MASKED SHREW	3	100	0	0
Mamm	AMAFB03010	SOREX LONGIROSTRIS	SOUTHEASTERN SHREW	3	67	0	33
Mamm	AMAFB07010	SOREX PALUSTRIS	WATER SHREW	3	33	0	67
Mamm	AMAFB07040	SOREX FUMEUS	SMOKY SHREW	3	67	33	0

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Mamm	AMAFB08010	SOREX DISPAR	LONG-TAILED SHREW	3	100	0	0
Mamm	AMAFB09010	SOREX HOYI	PYGMY SHREW	3	33	0	67
Mamm	AMAFB09020	BLARINA BREVICAUDA	NORTHERN SHORT-TAILED SHREW	3	100	0	0
Mamm	AMAFE01010	BLARINA CAROLINENSIS	SOUTHERN SHORT-TAILED SHREW	3	33	0	67
Mamm	AMAFF01010	CRYPTOTIS PARVA	LEAST SHREW	3	67	33	0
Mamm	AMAFF02020	PARASCALOPS BREWERI	HAIRY-TAILED MOLE	3	33	0	67
Mamm	AMAFF03040	SCALOPUS AQUATICUS	EASTERN MOLE	3	67	0	33
Mamm	AMAFF03060	CONDYLURA CRISTATA	STAR-NOSED MOLE	3	100	0	0
Mamm	AMAFF03070	MYOTIS LUCIFUGUS	LITTLE BROWN BAT	3	67	0	33
Mamm	AMAFF03080	MYOTIS AUSTRORIPARIUS	SOUTHEASTERN BAT	3	33	33	33
Mamm	AMAFF04010	MYOTIS SODALIS	INDIANA BAT	3	33	0	67
Mamm	AMAFF07010	MYOTIS LEIBII	EASTERN SMALL-FOOTED BAT	3	67	0	33
Mamm	AMAFF08010	MYOTIS SEPTENTRIONALIS	NORTHERN BAT	3	0	0	100
Mamm	AMAFF08100	PIPISTRELLUS SUBFLAVUS	EASTERN PIPISTRELLE	3	100	0	0
Mamm	AMAFF09020	EPTESICUS FUSCUS	BIG BROWN BAT	3	100	0	0
Mamm	AMAFF11010	LASIURUS BOREALIS	EASTERN RED BAT	3	67	0	33
Mamm	AMAFF11090	LASIURUS SEMINOLUS	SEMINOLE BAT	3	100	0	0
Mamm	AMAFF11150	NYCTICEIUS HUMERALIS	EVENING BAT	3	33	0	67
Mamm	AMAFF15010	CORYNORHINUS TOWNSENDII	TOWNSEND'S BIG-EARED BAT	3	67	0	33
Mamm	AMAFF17010	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT	3	100	0	0
Mamm	AMAFF21010	TADARIDA BRASILIENSIS	BRAZILIAN FREE-TAILED BAT	3	33	33	33
Mamm	AMAFF21020	SYLVILAGUS PALUSTRIS	MARSH RABBIT	3	67	0	33
Mamm	AMAFF22010	SYLVILAGUS FLORIDANUS	EASTERN COTTONTAIL	3	67	0	33
Mamm	AMAFH01010	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL	3	67	0	33
Mamm	AMAFH02010	TAMIAS STRIATUS	EASTERN CHIPMUNK	3	100	0	0
Mamm	AMAFK01010	MARMOTA MONAX	WOODCHUCK	3	100	0	0
Mamm	AMAJA01010	SCIURUS CAROLINENSIS	EASTERN GRAY SQUIRREL	3	67	0	33
Mamm	AMAJA01020	SCIURUS NIGER	EASTERN FOX SQUIRREL	3	67	33	0
Mamm	AMAJA03010	TAMIASCIURUS HUDSONICUS	RED SQUIRREL	3	33	0	67

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Mamm	AMAJA04010	GLAUCOMYS VOLANS	SOUTHERN FLYING SQUIRREL	3	33	33	33
Mamm	AMAJB01010	GLAUCOMYS SABRINUS	NORTHERN FLYING SQUIRREL	3	67	0	33
Mamm	AMAJE02010	CASTOR CANADENSIS	AMERICAN BEAVER	3	67	33	0
Mamm	AMAJF02020	ORYZOMYS PALUSTRIS	MARSH RICE RAT	3	67	0	33
Mamm	AMAJF02030	REITHRODONTOMYS HUMULIS	EASTERN HARVEST MOUSE	3	33	0	67
Mamm	AMAJF02050	PEROMYSCUS MANICULATUS	COMMON DEER MOUSE	3	33	0	67
Mamm	AMAJF05010	PEROMYSCUS POLIONOTUS	OLDFIELD MOUSE	3	67	0	33
Mamm	AMAJF06010	PEROMYSCUS LEUCOPUS	WHITE-FOOTED MOUSE	3	67	0	33
Mamm	AMAJF08010	PEROMYSCUS GOSSYPINUS	COTTON MOUSE	3	0	0	100
Mamm	AMAJH03020	OCHROTOMYS NUTTALLI	GOLDEN MOUSE	3	67	0	33
Mamm	AMALA01010	SIGMODON HISPIDUS	HISPID COTTON RAT	3	67	0	33
Mamm	AMALC02020	NEOTOMA FLORIDANA	EASTERN WOODRAT	3	67	0	33
Mamm	AMATA01010	NEOTOMA MAGISTER	ALLEGHENY WOODRAT	3	67	0	33
Rept	ARAAA01010	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE	3	100	0	0
Rept	ARAAA02010	MICROTUS PENNSYLVANICUS	MEADOW VOLE	3	100	0	0
Rept	ARAAA04010	MICROTUS CHROTORRHINUS	ROCK VOLE	3	67	0	33
Rept	ARAAB01010	MICROTUS PINETORUM	WOODLAND VOLE	3	67	0	33
Rept	ARAAC01010	ONDATRA ZIBETHICUS	MUSKRAT	3	100	0	0
Rept	ARAAD01010	SYNAPTOMYS COOPERI	SOUTHERN BOG LEMMING	3	33	0	67
Rept	ARAAD02010	RATTUS RATTUS	BLACK RAT	3	100	0	0
Rept	ARAAD02040	RATTUS NORVEGICUS	NORWAY RAT	3	33	0	67
Rept	ARAAD03010	MUS MUSCULUS	HOUSE MOUSE	3	67	0	33
Rept	ARAAD06010	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE	3	100	0	0
Rept	ARAAD07020	NAPAEUZAPUS INSIGNIS	WOODLAND JUMPING MOUSE	3	67	0	33
Rept	ARAAD07030	MYOCASTOR COYPUS	NUTRIA	3	67	0	33
Rept	ARAAD07050	CANIS LATRANS	COYOTE	3	100	0	0
Rept	ARAAD08010	CANIS RUFUS	RED WOLF	3	33	0	67
Rept	ARAAD09010	VULPES VULPES	RED FOX	3	67	0	33
Rept	ARAAE01010	UROCYON CINEREOARGENTEUS	COMMON GRAY FOX	3	67	0	33
Rept	ARAAE01050	URSUS AMERICANUS	BLACK BEAR	3	100	0	0

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Rept	ARAAE02030	PROCYON LOTOR	COMMON RACCOON	3	67	33	0
Rept	ARAAE02040	MUSTELA NIVALIS	LEAST WEASEL	3	0	0	100
Rept	ARAAG01030	MUSTELA FRENATA	LONG-TAILED WEASEL	3	67	33	0
Rept	ARABA01010	MUSTELA VISON	MINK	3	67	0	33
Rept	ARACB02010	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK	3	67	0	33
Rept	ARACB02030	MEPHITIS MEPHITIS	STRIPED SKUNK	3	100	0	0
Rept	ARACB02040	LUTRA CANADENSIS	NORTHERN RIVER OTTER	3	100	0	0
Rept	ARACF01010	LYNX RUFUS	BOBCAT	3	67	0	33
Rept	ARACF12010	SUS SCROFA	FERAL PIG	3	100	0	0
Rept	ARACF14130	ODOCOILEUS VIRGINIANUS	WHITE-TAILED DEER	3	33	0	67
Rept	ARACH01010	EQUUS CABALLUS	FERAL HORSE	3	67	0	33
Rept	ARACH01050	CARETTA CARETTA	LOGGERHEAD	3	67	0	33
Rept	ARACH01070	CHELONIA MYDAS	GREEN TURTLE	3	100	0	0
Rept	ARACH01080	LEPIDOCHELYS KEMPII	ATLANTIC RIDLEY	3	33	0	67
Rept	ARACH03010	CHELYDRA SERPENTINA	SNAPPING TURTLE	3	67	0	33
Rept	ARACJ02110	DERMOCHELYS CORIACEA	LEATHERBACK	3	100	0	0
Rept	ARADB02010	CHRYSEMYS PICTA	PAINTED TURTLE	3	33	0	67
Rept	ARADB03010	CLEMMYS GUTTATA	SPOTTED TURTLE	3	67	0	33
Rept	ARADB07010	CLEMMYS MUHLENBERGII	BOG TURTLE	3	67	0	33
Rept	ARADB10010	DEIROCHELYS RETICULARIA	CHICKEN TURTLE	3	67	0	33
Rept	ARADB13020	MALACLEMYS TERRAPIN	DIAMONDBACK TERRAPIN	3	67	0	33
Rept	ARADB13030	PSEUDEMYS CONCINNA	RIVER COOTER	3	67	0	33
Rept	ARADB14010	PSEUDEMYS FLORIDANA	FLORIDA COOTER	3	100	0	0
Rept	ARADB14020	PSEUDEMYS RUBRIVENTRIS	REDBELLY TURTLE	3	67	0	33
Rept	ARADB17020	TERRAPENE CAROLINA	EASTERN BOX TURTLE	3	67	0	33
Rept	ARADB17030	TRACHEMYS SCRIPTA	YELLOWBELLY SLIDER	3	67	0	33
Rept	ARADB19010	KINOSTERNON BAURII	STRIPED MUD TURTLE	3	67	0	33
Rept	ARADB19020	KINOSTERNON SUBRUBRUM	EASTERN MUD TURTLE	3	67	0	33
Rept	ARADB19050	STERNOTHERUS MINOR	LOGGERHEAD MUSK TURTLE	3	33	0	67
Rept	ARADB21020	STERNOTHERUS ODORATUS	COMMON MUSK TURTLE	3	67	0	33

Taxa	EICode	Scientific Name	Common Name	N	Correct %	Omission Error %	Commission Error %
Rept	ARADB22020	APALONE SPINIFERA	SPINY SOFTSHELL	3	67	0	33
Rept	ARADB22030	ALLIGATOR MISSISSIPPIENSIS	AMERICAN ALLIGATOR	3	100	0	0
Rept	ARADB22060	OPHISAURUS ATTENUATUS	SLENDER GLASS LIZARD	3	67	0	33
Rept	ARADB22070	OPHISAURUS VENTRALIS	EASTERN GLASS LIZARD	3	67	0	33
Rept	ARADB23010	OPHISAURUS MIMICUS	MIMIC GLASS LIZARD	3	67	0	33
Rept	ARADB26010	ANOLIS CAROLINENSIS	GREEN ANOLE	3	100	0	0
Rept	ARADB27030	PHRYNOSOMA CORNUTUM	TEXAS HORNED LIZARD	3	67	0	33
Rept	ARADB27040	SCELOPORUS UNDULATUS	EASTERN FENCE LIZARD	3	67	0	33
Rept	ARADB28010	EUMECES ANTHRACINUS	COAL SKINK	3	100	0	0
Rept	ARADB31010	EUMECES FASCIATUS	FIVE-LINED SKINK	3	67	0	33
Rept	ARADB34010	EUMECES INEXPECTATUS	SOUTHEASTERN FIVE-LINED SKINK	3	67	0	33
Rept	ARADB34030	EUMECES LATICEPS	BROADHEAD SKINK	3	33	0	67
Rept	ARADB35020	SCINCELLA LATERALIS	GROUND SKINK	3	0	33	67
Rept	ARADB36120	CNEMIDOPHORUS SEXLINEATUS	SIX-LINED RACERUNNER	3	67	0	33
Rept	ARADB36130	CARPHOPHIS AMOENUS	WORM SNAKE	3	67	0	33
Rept	ARADB39010	CEMOPHORA COCCINEA	SCARLET SNAKE	3	67	0	33
Rept	ARADB39020	COLUBER CONSTRICTOR	RACER	3	33	0	67
Rept	ARADC02010	DIADOPHIS PUNCTATUS	RINGNECK SNAKE	3	100	0	0
Rept	ARADE01010	ELAPHE GUTTATA	CORN SNAKE	3	33	0	67
Rept	ARADE01020	ELAPHE OBSOLETA	RAT SNAKE	3	100	0	0
Rept	ARADE02010	FARANCIA ABACURA	MUD SNAKE	3	67	0	33
Rept	ARADE02040	FARANCIA ERYTROGRAMMA	RAINBOW SNAKE	3	33	0	67
Rept	ARADE03020	HETERODON PLATIRHINOS	EASTERN HOGNOSE SNAKE	3	100	0	0

Appendix V. Dichotomous key used to assist in stewardship status level assignments.

Is there a management plan or other institutional documentation describing management objectives?

Yes: Is the land subject to statutory or legally enforceable protection from conversion to anthropogenic use of all or selected biological features by state or federal legislation, regulation, private deed restriction, or conservation easement intended for permanent status?

Yes: Is the total system protected, with no more than 5% in anthropogenic use?

Yes: Does the management strive for natural processes including allowing or mimicking natural ecological disturbance events?

Yes: STATUS 1

No: Managed for natural processes, but some or all disturbance events are suppressed or modified. **STATUS 2**

No: Does management emphasize natural processes including allowing or mimicking ecological disturbance events, but also allow low anthropogenic disturbance, renewable resource use, or high levels of human visitation on more than 5% of the land unit?

Yes: STATUS 2

No: Management allows intensive, anthropogenic disturbances such as resource extraction, military exercises, or developed or motorized recreation on more than 5% of the land unit, but includes ecological management for selected features. **STATUS 3**

No: Is ecological protection not legally enforceable, temporary, or lacking, but land unit is managed by a plan intended for permanent status?

Yes: Management to benefit biological diversity is provided by a written plan in place or in process under institutional policy requiring such management. **STATUS 3**

No: Not subject to an adopted management plan or regulation that promotes biological diversity, or management intent is unknown. **STATUS 4**

No: Not subject to an adopted management plan or regulation that promotes biological diversity, or management intent is unknown. **STATUS 4**

Appendix W. Questionnaire sent to land managers to obtain information used to assign natural resource protection status levels.

Area Name: _____

Survey respondent: _____

Survey respondent's title _____ Phone _____

Land Manager's name: _____

Land Manager's Title: _____ Phone _____

Please indicate yes or no response after appropriate questions and complete other answers in spaces provided. Thanks!

1. Is there a management plan or institutional documentation describing the management objectives? (if yes, go to 1.1; if no, go to 1.2)

1.1 Yes: Citation for the Management Plan or institutional documentation used to the guide management of this area: _____

Is the land subject to statutory or legally enforceable protection from conversion to anthropogenic use of all or selected biological features by state or federal legislation, regulation, private deed restriction, or conservation easement intended for permanent status? **(if yes, go to 2.1; if no, go to 2.2)**

2.1 Yes: What legislation or regulations apply to the area?

3. Is the total system protected, with no more than 5% in anthropogenic use (resource extraction, military exercises, or developed or motorized recreation)? (if yes, go to 3.1; if no, go to 3.2)

3.1 Yes: Less than 5% of the area has been converted to anthropogenic uses. What are the anthropogenic uses (buildings, parking lot, resource extraction, agricultural fields) found on the area?

4. What management techniques are used in the area (timber production, food plots, impoundments, prescribed fire, etc.)? What are the objectives of that management?

In general does the management strive for natural processes including allowing or mimicking natural ecological disturbance events? **(if yes, go to 4.1; if no, go to 4.2)**

4.1 Yes :
If there is a wildfire, will it be allowed to proceed?

Would salvage timbering be allowed on the area?

Are these cases specifically addressed in the _____

management plan?

4.2 No: Managed for natural processes, but some or all disturbance events are suppressed or modified.

3.2 No: **More than 5% of the area is used for anthropogenic uses** (resource extraction, military exercises, or developed or motorized recreation).

What are the anthropogenic uses (buildings, parking lot, resource extraction) found on the area?

What management techniques are used in the area (timber production, food plots, impoundments, prescribed fire, etc.) and what are the objectives of that management?

5. Does the management generally emphasize natural processes even though more than 5% is in anthropogenic uses? **(if yes, 5.1; if no, 5.2)**

5.1 Yes. Management emphasizes natural processes including allowing or mimicking natural ecological disturbance events, but also allows low anthropogenic disturbance, renewable resource use, or high levels of human visitation on more than 5% of the land unit.

5.2 No. Management allows intensive, anthropogenic disturbances such as resource extraction, military exercises, or developed or motorized recreation on more than 5% of the land unit, but includes ecological management for selected features.

2.2 No. Is the ecological protection not legally enforceable, temporary or lacking but managed by a plan intended for permanent status? **(if yes, 6.1; if no, 6.2)**

6.1 Yes. Management to benefit biological diversity is provided by a written plan in place or in process under institutional policy requiring such management.

6.2 No. Not subject to an adopted management plan or regulation that promotes biological diversity, or management intent is unknown.

1.2 No. Not subject to an adopted management plan or regulation that promotes biological diversity, or management intent is unknown.

Appendix X. Management plan citation and contact list for Status 1 and 2 Managed Areas.

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
1	ALLIGATOR RIVER PRESERVE	33.7	NORTH CAROLINA COASTAL LAND TRUST	1996	
1	ANGOLA CREEK FLATWOODS PRESERVE DNP	88.4	THE NATURE CONSERVANCY	1995	2
1	ANTIOCH BAY PRESERVE DNP	37.8	THE NATURE CONSERVANCY	1983	2
1	BALD HEAD ISLAND STATE NATURAL AREA	2415.8	DIVISION OF PARKS AND RECREATION		3
1	BALD HEAD WOODS COASTAL RESERVE DNP	77.3	DIVISION OF COASTAL MANAGEMENT	1994	2, 6
1	BAY TREE LAKE STATE PARK	827.3	DIVISION OF PARKS AND RECREATION		3
1	BIG SHEEP CLIFF RIDGE PRESERVE	19.4	THE NATURE CONSERVANCY	1988	
1	BIG YELLOW MOUNTAIN PRESERVE	77.1	TNC/SOU. APPALACHIAN HIGHLANDS CONSERV.	1975	
1	BIG YELLOW MOUNTAIN PRESERVE DNP	165.1	TNC/SOU. APPALACHIAN HIGHLANDS CONSERV.	1975	2
1	BLACK ANKLE BOG PRESERVE	114.7	THE NATURE CONSERVANCY	1995	
1	BLUFF MOUNTAIN PRESERVE DNP	819.6	THE NATURE CONSERVANCY	1998	2,12
1	BUCKRIDGE COASTAL RESERVE	7366.4	DIVISION OF COASTAL MANAGEMENT	1999	
1	BUCKRIDGE COASTAL RESERVE DNP	476.1	DIVISION OF COASTAL MANAGEMENT	2000	1, 2
1	BUFFALO CREEK CYPRESS SWAMP	9.9	TRIANGLE LAND CONSERVANCY	1996	
1	BULL NECK SWAMP	0.8	NORTH CAROLINA STATE UNIVERSITY	1995	11
1	BULL NECK SWAMP DNP	937.9	NORTH CAROLINA STATE UNIVERSITY	1907	2, 11
1	BULLHEAD MOUNTAIN STATE NATURAL AREA	87.3	DIVISION OF PARKS AND RECREATION	2000	3
1	BUSHY LAKE STATE NATURAL AREA	726.3	DIVISION OF PARKS AND RECREATION	1986	3
1	BUSHY LAKE STATE NATURAL AREA DNP	582.4	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	BUXTON WOODS COASTAL RESERVE	398.3	DIVISION OF COASTAL MANAGEMENT	1990	7
1	CAMASSIA SLOPES PRESERVE DNP	71.4	THE NATURE CONSERVANCY	1982	2
1	CAPE FEAR ROYAL TRACTS	321.4	NORTH CAROLINA COASTAL LAND TRUST	2000	
1	CASTLE BAY TRACT	8.1	NORTH CAROLINA COASTAL LAND TRUST	1999	
1	CATAWBA COLLEGE ECOLOGICAL PRESERVE	44.5	LAND TRUST FOR CENTRAL N.C.		
1	CHOWAN SWAMP STATE NATURAL AREA	2835.9	DIVISION OF PARKS AND RECREATION		3
1	COLUMBUS COUNTY GAME LAND	2426.2	WILDLIFE RESOURCES COMMISSION	1996	4
1	CROATAN NAT FOR - CATFISH LAKE SO. WILDERNESS	3432.9	USDA-FOREST SERVICE	1984	14
1	CROATAN NAT. FOREST - POCOSIN WILDERNESS	4775.2	USDA-FOREST SERVICE	1984	14
1	CROATAN NAT. FOREST - POND PINE WILDERNESS	684.0	USDA-FOREST SERVICE	1984	14
1	CROATAN NAT. FOREST - SHEEP RIDGE WILDERNESS	3769.0	USDA-FOREST SERVICE	1984	14
1	CROWDERS MOUNTAIN ST PK - KINGS PINNACLE DNP	228.5	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	CROWDERS MOUNTAIN ST PK - CROWDERS MTN. DNP	256.4	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	CURRITUCK BANKS ESTUARINE RESERVE	142.4	DIVISION OF COASTAL MANAGEMENT	1987	10

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
1	CURRITUCK OUTER BANKS PRESERVE DNP	25.9	THE NATURE CONSERVANCY	1995	2
1	DAN RIVER	129.2	PIEDMONT LAND CONSERVANCY	1998	1
1	DENR-WRC HUNTING CREEK SWAMP	64.6	WILDLIFE RESOURCES COMMISSION		4
1	DEVIL'S GUT PRESERVE	404.4	THE NATURE CONSERVANCY	1989	
1	DEVIL'S GUT PRESERVE DNP	451.0	THE NATURE CONSERVANCY	1990	2
1	DISMAL SWAMP STATE NATURAL AREA	5806.9	DIVISION OF PARKS AND RECREATION		3
1	DUNAHOE BAY PRESERVE DNP	24.8	THE NATURE CONSERVANCY	1983	2
1	ENO RIVER STATE PARK DNP	367.0	DIVISION OF PARKS AND RECREATION	1980	2, 3
1	EVERHART RIPARIAN EASEMENT	2.7	PIEDMONT LAND CONSERVANCY	2001	1
1	FLOWER HILL NATURE PRESERVE	3.9	TRIANGLE LAND CONSERVANCY	1989	
1	GAR CREEK - BRANDEMAIER	5.7	CATAWBA LANDS CONSERVANCY	2000	
1	GEORGES CREEK	13.2	TRIANGLE LAND CONSERVANCY	1992	
1	GOOSE POND BAY PRESERVE DNP	30.5	THE NATURE CONSERVANCY	1982	2
1	GRANDFATHER MOUNTAIN PRESERVE	474.7	THE NATURE CONSERVANCY	1986	
1	GRANDFATHER MOUNTAIN PRESERVE DNP	391.3	THE NATURE CONSERVANCY	1998	2
1	GRANDVIEW OVERLOOK SLOPES CONS. EASEMENT	115.3	CONSERVATION TRUST FOR N.C.	1997	
1	GREAT SMOKY MOUNTAINS NATIONAL PARK	111346.0	NATIONAL PARK SERVICE	1934	
1	GREEN RIVER GAME LAND DNP	764.9	WILDLIFE RESOURCES COMMISSION	1995	2, 4
1	GREEN SWAMP PRESERVE	5484.4	THE NATURE CONSERVANCY	1977	
1	HANGING ROCK ST PK - CASCADE CREEK DNP	12.2	DIVISION OF PARKS AND RECREATION	1981	2, 3
1	HANGING ROCK ST PK - HANGING ROCK DNP	177.1	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	HANGING ROCK ST PK - MOORES KNOB/COOKS WALL DNP	753.3	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	HAWS RUN MITIGATION SITE	243.5	DEPT OF TRANSPORTATION	1998	
1	HAY STACK MARSH PRESERVE	37.0	NORTH CAROLINA COASTAL LAND TRUST	1994	
1	HEMLOCK BLUFFS STATE NATURAL AREA	40.6	CITY OF CARY		
1	HOBUCKEN MARSHES PRESERVE	31.9	NORTH CAROLINA COASTAL LAND TRUST	1994	
1	HOPE HOLE CREEK	12.9	NORTH CAROLINA COASTAL FEDERATION	1997	1
1	INDIGO PLANTATION MARSH PRESERVE	40.2	NORTH CAROLINA COASTAL LAND TRUST	1994	
1	JOCKEY'S RIDGE STATE PARK DNP	155.4	DIVISION OF PARKS AND RECREATION	1998	2, 3
1	JOE MOUNTAIN PRESERVE DNP	17.1	THE NATURE CONSERVANCY	1988	2
1	JOHNSTON MILL NATURE PRESERVE	116.7	TRIANGLE LAND CONSERVANCY	1999	1
1	JONES ISLAND AUDUBON SANCTUARY	4.9	NATIONAL AUDUBON SOCIETY		
1	JONES LAKE STATE PARK DNP	698.2	DIVISION OF PARKS AND RECREATION	1987	2, 3
1	KITTY HAWK WOODS COASTAL RESERVE	549.8	DIVISION OF COASTAL MANAGEMENT	1997	8
1	KITTY HAWK WOODS DNP	186.7	TOWN OF KITTY HAWK	1992	8
1	LA GRANGE RIPARIAN RESERVE	143.7	TRIANGLE LAND CONSERVANCY	1998	1

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
1	LARKSPUR RIDGE PRESERVE	32.7	THE NATURE CONSERVANCY	1995	
1	LARKSPUR RIDGE PRESERVE DNP	8.3	THE NATURE CONSERVANCY	1995	2
1	LAUREL HILL NATURE PRESERVE	35.6	NC BOTANICAL GARDEN FOUNDATION		
1	LITTLE RIVER WETLAND MITIGATION SITE	135.6	SANDHILLS AREA LAND TRUST		
1	LONG CREEK BLUFF	6.1	CATAWBA LANDS CONSERVANCY	1996	
1	LUMBER RIVER ST PK - PINEY ISLAND/NET HOLE DNP	523.0	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	MASONBORO ISLAND ESTUARINE RESERVE	2283.6	DIVISION OF COASTAL MANAGEMENT	1987	10
1	MCCAULEY MOUNTAIN	9.4	TRIANGLE LAND CONSERVANCY	1993	
1	MCINTOSH BAY PRESERVE DNP	52.4	THE NATURE CONSERVANCY	1984	2
1	MITCHELL MILL STATE NATURAL AREA	38.1	DIVISION OF PARKS AND RECREATION		3
1	MITCHELL RIVER BUFFER	85.9	PIEDMONT LAND CONSERVANCY	1997	1
1	MOUNT JEFFERSON STATE NATURAL AREA	223.4	DIVISION OF PARKS AND RECREATION	1956	3
1	MYRTLE HEAD SAVANNA PRESERVE DNP	29.3	THE NATURE CONSERVANCY	1995	2
1	NANTAHALA NAT FOR - ELLICOTT ROCK WILDERNESS	1382.1	USDA-FOREST SERVICE	1975	13
1	NANTAHALA NAT FOR - JOYCE KILMER WILDERNESS	5501.9	USDA-FOREST SERVICE	1975	13
1	NANTAHALA NAT FOR - SOU. NANTAHALA WILDER.	4854.7	USDA-FOREST SERVICE	1984	13
1	NEW HOPE CREEK	19.6	TRIANGLE LAND CONSERVANCY	1998	1
1	NORTH RIVER GAME LAND DNP	431.7	WILDLIFE RESOURCES COMMISSION	1999	2, 4, 5
1	OAK ISLAND MARSHES PRESERVE	261.5	NORTH CAROLINA COASTAL LAND TRUST	1995	
1	OAK SAVANNA BAY PRESERVE DNP	14.1	THE NATURE CONSERVANCY	1985	2
1	OCCONEECHEE MOUNTAIN STATE NATURAL AREA	48.6	DIVISION OF PARKS AND RECREATION	1997	3
1	OLD DOCK SAVANNA PRESERVE	20.6	THE NATURE CONSERVANCY	1994	
1	PAUL AND AGNES RHYNE CONSERVATION PRESERVE	29.6	CATAWBA LANDS CONSERVANCY	1999	1
1	PEGG HILL	29.7	TRIANGLE LAND CONSERVANCY	1995	
1	PERMUDA ISLAND COASTAL RESERVE	23.4	DIVISION OF COASTAL MANAGEMENT	1987	9
1	PINE ISLAND AUDUBON SANCTUARY	630.2	NATIONAL AUDUBON SOCIETY		
1	PINHOOK PRESERVE	29.0	CATAWBA LANDS CONSERVANCY	2000	1
1	PISGAH NAT FOREST - LINVILLE GORGE WILDERNESS	4745.9	USDA-FOREST SERVICE	1964	13
1	PISGAH NAT FOREST - MIDDLE PRONG WILDERNESS	3061.0	USDA-FOREST SERVICE	1984	13
1	PISGAH NAT FOREST - SHINING ROCK WILDERNESS	7526.2	USDA-FOREST SERVICE	1964	13
1	PRETTY POND BAY PRESERVE DNP	16.5	THE NATURE CONSERVANCY	1981	2
1	RAVEN ROCK STATE PARK DNP	643.4	DIVISION OF PARKS AND RECREATION	1998	2, 3
1	RIVER OAKS PLANTATION	44.7	CATAWBA LANDS CONSERVANCY	2001	1
1	ROANOKE ISLAND MARSHES GAME LAND	439.6	WILDLIFE RESOURCES COMMISSION	1984	1, 4
1	ROANOKE ISLAND MARSHES GAME LAND DNP	291.4	WILDLIFE RESOURCES COMMISSION	1993	2, 4
1	ROANOKE RIVER WETLANDS GAME LAND DNP	3336.3	WILDLIFE RESOURCES COMMISSION	1994	2, 4, 5

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
1	RUN HILL STATE NATURAL AREA	51.4	DIVISION OF PARKS AND RECREATION	1998	3
1	SCUPPERNONG RIVER PRESERVE	225.1	THE NATURE CONSERVANCY	1994	
1	SOUTH MOUNTAINS STATE PARK DNP	4975.6	DIVISION OF PARKS AND RECREATION	1998	2, 3
1	SOUTH RIVER PRESERVE	24.5	NORTH CAROLINA COASTAL LAND TRUST	1996	
1	SPENCER MOUNTAIN WETLAND	41.1	CATAWBA LANDS CONSERVANCY	2000	1
1	STATELINE PRAIRIE BAY PRESERVE DNP	3.3	THE NATURE CONSERVANCY	1987	2
1	STEEP BOTTOM	11.8	TRIANGLE LAND CONSERVANCY	1995	
1	STILLWATER BOTTOM NATURE PRESERVE	6.8	NC BOTANICAL GARDEN FOUNDATION		
1	STONE MOUNTAIN STATE PARK DNP	4022.0	DIVISION OF PARKS AND RECREATION	1981	2, 3
1	SWANQUARTER NATIONAL WILDERNESS AREA	2209.1	US FISH & WILDLIFE SERVICE	1976	
1	SWIFT CREEK BLUFFS DNP	9.7	TRIANGLE LAND CONSERVANCY	1991	2
1	TEMPLE FLAT ROCK	15.4	TRIANGLE LAND CONSERVANCY	1984	
1	THE NECK SAVANNA PRESERVE	178.8	THE NATURE CONSERVANCY	1989	
1	THEODORE ROOSEVELT STATE NATURAL AREA	124.8	DIVISION OF PARKS AND RECREATION		3
1	TODD SOUTH FORK GREENWAY	35.1	NATIONAL COMMITTEE FOR THE NEW RIVER	2000	1
1	TOXAWAY GAME LAND	1145.3	WILDLIFE RESOURCES COMMISSION	1999	4, 5
1	TURKEY QUARTER ISLAND PRESERVE	590.4	NORTH CAROLINA COASTAL LAND TRUST	1997	
1	UPPER ALLIGATOR RIVER PRESERVE	160.9	THE NATURE CONSERVANCY		
1	UWHARRIE NAT FOR - BIRKHEAD MOUNTAIN WILDER.	2054.2	USDA-FOREST SERVICE	1984	14
1	WETLAND RESTORATION	35.4	HOLLY SPRINGS	1999	1
1	WEYMOUTH WOODS SANDHILLS NATURE PRESERVE	74.0	DIVISION OF PARKS AND RECREATION	1963	3
1	WEYMOUTH WOODS SANDHILLS NATURE PRES DNP	194.0	DIVISION OF PARKS AND RECREATION	1979	2, 3
1	WEYMOUTH WOODS SANDHILLS NATURE PRES/BOYD ESTATE DNP	58.4	DIVISION OF PARKS AND RECREATION	1979	2, 3
1	WEYMOUTH WOODS SANDHILLS N.P./PAINT HILL DNP	32.2	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	WHITE PINES NATURE PRESERVE	35.2	TRIANGLE LAND CONSERVANCY	1986	
1	WHITE PINES NATURE PRESERVE DNP	80.3	TRIANGLE LAND CONSERVANCY	1989	2
1	WILLIAM B. UMSTEAD STATE PARK DNP	1493.6	DIVISION OF PARKS AND RECREATION	1995	2, 3
1	WILSON CREEK SLOPES PRESERVE	55.7	THE NATURE CONSERVANCY		
1	ZEKES ISLAND ESTUARINE RESERVE	632.6	DIVISION OF COASTAL MANAGEMENT	1987	10
2	ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE	59663.7	US FISH & WILDLIFE SERVICE	1984	
2	ANGOLA BAY GAME LAND	8094.1	WILDLIFE RESOURCES COMMISSION		4
2	APPALACHIAN STATE UNIV NATURE PRESERVE	26.8	APPALACHIAN STATE UNIVERSITY	1999	
2	ASHEVILLE WATERSHED CONSERVATION EASEMENT	7696.3	CITY OF ASHEVILLE		1
2	BIG SHOE HEEL CREEK PRESERVE	56.4	NC HERPETOLOGICAL SOCIETY		

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
2	BLACK RIVER CYPRESS FOREST PRESERVE	521.2	THE NATURE CONSERVANCY	1989	
2	BLACK ROAD PRESERVE	44.4	LAND TRUST FOR CENTRAL N.C.	1998	
2	BLUFF MOUNTAIN EASEMENT	76.1	CONSERVATION TRUST FOR N.C.	1993	
2	BRICES CREEK	24.8	NORTH CAROLINA COASTAL LAND TRUST	1996	
2	BROAD RIVER BUFFER	86.0	CLEVELAND COUNTY	2000	1
2	BUFFER	41.6	YADKINVILLE		1
2	BUFFER ACQUISITION	36.5	MAIDEN	1998	1
2	BULLARD AND BRANCH HUNTING PRESERVE	102.8	WILDLIFE RESOURCES COMMISSION		4
2	BUTNER-FALLS OF NEUSE GAME LAND (NCDOA)	3735.6	WILDLIFE RESOURCES COMMISSION		4
2	CAPE FEAR RIVER WETLANDS GAME LAND	2239.3	WILDLIFE RESOURCES COMMISSION		4
2	CAPE LOOKOUT NATIONAL SEASHORE	9078.6	NATIONAL PARK SERVICE	1966	
2	CAROLINA BEACH STATE PARK	235.0	DIVISION OF PARKS AND RECREATION	1969	3
2	CASWELL GAME LAND	6074.0	WILDLIFE RESOURCES COMMISSION		4, 5
2	CATAWBA CREEK	51.2	GASTONIA	1999	1
2	CATAWBA RIVER BASIN RIPARIAN RESTORATION	95.4	MORGANTON	1998	1
2	CATAWBA RIVER BUFFER	546.8	CENTRALINA COUNCIL OF GOVERNMENTS	1997	1
2	CATAWBA WILDFLOWER GLEN	7.1	CATAWBA LANDS CONSERVANCY	1994	
2	CEDAR FORK	41.8	WAKE COUNTY		1
2	CEDAR ISLAND NATIONAL WILDLIFE REFUGE	5759.1	US FISH & WILDLIFE SERVICE	1964	
2	CEDAR SWAMP SEEP PRESERVE	19.2	THE NATURE CONSERVANCY	1989	
2	CHOWAN GAME LAND	15.8	WILDLIFE RESOURCES COMMISSION		4
2	CHOWAN SWAMP GAME LAND	93.4	WILDLIFE RESOURCES COMMISSION		4
2	CHOWAN WETLAND RESTORATION	20.0	EDENTON CHOWAN DEVELOPMENT CORP.	2001	1
2	CLARKE CREEK ROOKERY	14.8	LAND TRUST FOR CENTRAL N.C.	1998	1
2	CLIFFS OF THE NEUSE STATE PARK	317.4	DIVISION OF PARKS AND RECREATION	1945	3
2	COLD MOUNTAIN GAME LAND	1451.9	WILDLIFE RESOURCES COMMISSION	2000	1, 4
2	COOLEEMEE RIVERPARK	33.6	PILOT VIEW RC AND D	2000	1
2	CORE CREEK EASEMENT	57.9	NORTH CAROLINA COASTAL LAND TRUST	2000	1
2	CRAWFORD CREEK EASEMENT	318.7	CONSERVATION FUND	1998	1
2	CROWDERS MOUNTAIN STATE PARK	1555.9	DIVISION OF PARKS AND RECREATION	1974	3
2	CURRIE HILL	15.5	TRIANGLE LAND CONSERVANCY	1996	
2	CURRITUCK BANKS GAME LAND	38.4	WILDLIFE RESOURCES COMMISSION		4
2	CURRITUCK NATIONAL WILDLIFE REFUGE	1200.3	US FISH & WILDLIFE SERVICE	1984	
2	DENR-WETLAND RESTORATION SITES	58.4	STATE OF NORTH CAROLINA		
2	DENSONS/HUGH CREEKS	140.7	TOWN OF TROY	1999	1

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
2	DONNELLEY HARDPAN BOG PRESERVE	56.3	NC HERPETOLOGICAL SOCIETY		
2	DRUMMOND POINT PRESERVATION AREA	32.0	EDENTON CHOWAN DEVELOPMENT CORP.	2001	1
2	DUPONT RESERVE	180.1	NORTH CAROLINA COASTAL LAND TRUST	1997	
2	DUPONT STATE FOREST DNP	2162.1	DIVISION OF FOREST RESOURCES	1999	2
2	EASTOVER RIDGE PRESERVE	9.1	CATAWBA LANDS CONSERVANCY	1999	
2	ENO RIVER STATE PARK	712.3	DIVISION OF PARKS AND RECREATION	1975	3
2	FALLS LAKE STATE RECREATION AREA	2105.9	DIVISION OF PARKS AND RECREATION	1981	3
2	FORT FISHER STATE RECREATION AREA	192.1	DIVISION OF PARKS AND RECREATION		3
2	FORT MACON STATE PARK	200.4	DIVISION OF PARKS AND RECREATION	1936	3
2	FWS PERMANENT EASEMENT	1878.8	US FISH & WILDLIFE SERVICE		
2	GOOSE CREEK GAME LAND	3096.2	WILDLIFE RESOURCES COMMISSION		4, 5
2	GOOSE CREEK STATE PARK	652.4	DIVISION OF PARKS AND RECREATION	1974	3
2	GORGES STATE PARK	2978.3	DIVISION OF PARKS AND RECREATION	1999	3
2	GREAT DISMAL SWAMP NATIONAL WILDLIFE REFUGE	10497.6	US FISH & WILDLIFE SERVICE	1974	
2	GREEN RIVER GAME LAND	4965.0	WILDLIFE RESOURCES COMMISSION		4
2	GREEN RIVER HEADWATERS PRESERVE	173.7	THE NATURE CONSERVANCY	1994	
2	GULL ROCK GAME LAND	10627.6	WILDLIFE RESOURCES COMMISSION		4, 5
2	HAMMOCKS BEACH STATE PARK	503.1	DIVISION OF PARKS AND RECREATION	1964	3
2	HANGING ROCK STATE PARK	1479.0	DIVISION OF PARKS AND RECREATION	1936	3
2	HAYMARKET TRACT	49.3	MECKLENBURG COUNTY	2000	1
2	HIDDEN LAKE NATURE PRESERVE	341.1	HIDDEN LAKE L.L.C. AND BIG PINE L.L.C.	1999	
2	HILL FOREST/FLAT RIVER DNP	56.2	NORTH CAROLINA STATE UNIVERSITY	1990	2
2	HOLLY SHELTER GAME LAND	19507.8	WILDLIFE RESOURCES COMMISSION		4, 5, 15
2	HOWELL WOODS ENV. LEARNING CENTER	1209.6	JOHNSTON COMMUNITY COLLEGE	1993	
2	HUNTING CREEK BUFFER	7.6	ARCHAEOLOGICAL CONSERVANCY	2000	1
2	JOCKEY'S RIDGE STATE PARK	19.9	DIVISION OF PARKS AND RECREATION	1975	3
2	JONES LAKE STATE PARK	80.8	DIVISION OF PARKS AND RECREATION	1939	3
2	JORDAN GAME LAND	11102.3	WILDLIFE RESOURCES COMMISSION		4
2	JORDAN LAKE STATE RECREATION AREA	1851.8	DIVISION OF PARKS AND RECREATION	1973	3
2	KERR LAKE STATE RECREATION AREA	862.0	DIVISION OF PARKS AND RECREATION	1971	3
2	LAKE JAMES STATE PARK	252.4	DIVISION OF PARKS AND RECREATION	1987	3
2	LAKE NORMAN STATE PARK	586.1	DIVISION OF PARKS AND RECREATION	1962	3
2	LAKE PHELPS STATE LAKE	6440.3	DIVISION OF PARKS AND RECREATION	1929	3
2	LAKE WACCAMAW STATE PARK	4295.0	DIVISION OF PARKS AND RECREATION	1976	3
2	LANTERN ACRES GAME LAND/CRESWELL WETLANDS	1159.8	WILDLIFE RESOURCES COMMISSION		4, 5

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
2	LATTA PLANTATION NATURE PARK II	183.2	MECKLENBURG COUNTY		
2	LITTLE BUFFALO CREEK BUFFER	107.9	SANFORD	1999	1
2	LITTLE RIVER REGIONAL PARK AND NATURAL AREA	155.9	ORANGE/DURHAM COUNTIES	2000	1
2	LITTLE TENNESSEE BUFFER	24.7	LAND TRUST FOR LITTLE TENNESSEE	1999	1
2	LORDS CREEK WETLAND PRESERVE	10.6	NORTH CAROLINA COASTAL LAND TRUST		
2	LUMBER RIVER STATE PARK	2332.2	DIVISION OF PARKS AND RECREATION	1989	3
2	MACKAY ISLAND NATIONAL WILDLIFE REFUGE	2936.5	US FISH & WILDLIFE SERVICE	1961	
2	MATTAMUSKEET NATIONAL WILDLIFE REFUGE (lake)	16218.4	US FISH & WILDLIFE SERVICE	1934	
2	MATTAMUSKEET NATIONAL WILDLIFE REFUGE (land)	3806.9	US FISH & WILDLIFE SERVICE	1934	
2	MCDOWELL PARK	54.4	MECKLENBURG COUNTY		
2	MCGOWAN CREEK PRESERVE	25.6	ORANGE COUNTY	2000	1
2	MEARS FORK	50.6	HAW RIVER ASSEMBLY	1998	1
2	MEDOC MOUNTAIN STATE PARK	978.3	DIVISION OF PARKS AND RECREATION	1971	3
2	MERCHANTS MILLPOND STATE PARK	1250.2	DIVISION OF PARKS AND RECREATION	1973	3
2	MIDDLE CREEK	6.6	TRIANGLE LAND CONSERVANCY		
2	MIDDLE CREEK BOTTOMLANDS	24.4	TRIANGLE LAND CONSERVANCY	2001	
2	MITCHELL RIVER EASEMENT	14.4	PIEDMONT LAND CONSERVANCY		1
2	MORGAN GLEN	3.5	TRIANGLE LAND CONSERVANCY	1988	
2	MORROW MOUNTAIN STATE PARK	1799.8	DIVISION OF PARKS AND RECREATION	1939	3
2	MOTHER VINEYARD	62.1	DEPT OF CULTURAL RESOURCES	1999	
2	MOUNT MITCHELL STATE PARK	615.1	DIVISION OF PARKS AND RECREATION	1915	3
2	NAGS HEAD WOODS PRESERVE DNP	167.3	THE NATURE CONSERVANCY	1978	2
2	NEUSE RIVER GAME LAND	52.4	WILDLIFE RESOURCES COMMISSION		4
2	NEW HOPE CREEK WATERSHED	239.0	DURHAM COUNTY	1996	1
2	NEW LAKE GAME LAND	687.7	WILDLIFE RESOURCES COMMISSION		4
2	NEW RIVER (NORTH FORK) BUFFER	51.7	CONSERVATION FUND		1
2	NEW RIVER (SOUTH FORK) BUFFER	63.5	CONSERVATION FUND		1
2	NEW RIVER STATE PARK	544.3	DIVISION OF PARKS AND RECREATION	1975	3
2	NORTH CHASE BOTTOMLANDS PRESERVE	4.8	NORTH CAROLINA COASTAL LAND TRUST	1993	
2	NORTH RIVER	835.8	NORTH CAROLINA COASTAL FEDERATION	2000	1
2	NORTH RIVER GAME LAND	7739.2	WILDLIFE RESOURCES COMMISSION		4, 5
2	NORTHWEST RIVER MARSH GAME LAND	1191.8	WILDLIFE RESOURCES COMMISSION	1992	1, 4, 5
2	NORWOOD TRACT	16.7	CONSERVATION TRUST FOR N.C.	1995	
2	OTTER CREEK NATURAL AREA	27.8	EAST CAROLINA UNIVERSITY	1995	
2	PACES MILL SETTLEMENT	73.5	TRIANGLE LAND CONSERVANCY	1990	
2	PALMETTO-PEARTREE PRESERVE	4168.8	THE CONSERVATION FUND	1999	

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
2	PARKERTOWN ROAD BUFFER	88.6	SWANSBORO		1
2	PEA ISLAND NATIONAL WILDLIFE REFUGE	1854.0	US FISH & WILDLIFE SERVICE	1938	
2	PEE DEE NATIONAL WILDLIFE REFUGE	3477.4	US FISH & WILDLIFE SERVICE	1965	
2	PETTIGREW STATE PARK	514.5	DIVISION OF PARKS AND RECREATION	1947	3
2	PILOT MOUNTAIN STATE PARK	1498.6	DIVISION OF PARKS AND RECREATION	1968	3
2	PINE ORCHARD CREEK BUFFER	21.6	CONSERVATION FUND		
2	PINECROFT LAKE PARK	5.8	PIEDMONT LAND CONSERVANCY	1994	
2	POCOSIN LAKES NATIONAL WILDLIFE REFUGE	46264.7	US FISH & WILDLIFE SERVICE	1963	
2	PROVINCETOWN FOREST	1.5	PIEDMONT LAND CONSERVANCY	1994	
2	PUNGO RIVER GAME LAND	190.8	WILDLIFE RESOURCES COMMISSION		4
2	RACHEL CARSON ESTUARINE RESERVE DNP	936.0	DIVISION OF COASTAL MANAGEMENT	1987	2, 10
2	RANKINTOWN NATURE PRESERVE	29.5	CATAWBA LANDS CONSERVANCY	1999	
2	RAVEN ROCK STATE PARK	922.4	DIVISION OF PARKS AND RECREATION	1969	3
2	REDSTONE POINT PRESERVATION	8.9	DARE COUNTY	2000	1
2	RESTORATION	45.2	EDENTON	1998	1
2	ROANOKE RIVER NATIONAL WILDLIFE REFUGE	7210.9	US FISH & WILDLIFE SERVICE	1989	
2	ROANOKE RIVER WETLANDS GAME LAND	1394.6	WILDLIFE RESOURCES COMMISSION		4, 5
2	ROBESON COUNTY GAME LAND	17.3	WILDLIFE RESOURCES COMMISSION		4
2	ROCKY HOCK SWAMP FOREST PRESERVE	37.1	THE NATURE CONSERVANCY	1978	
2	SAMPSON COUNTY GAME LAND	72.1	WILDLIFE RESOURCES COMMISSION		4
2	SANDY CREEK	69.7	RAMSEUR	1998	1
2	SANDY MUSH COMMUNITY	121.5	SOU. APPALACHIAN HIGHLANDS CONSERVANCY	1995	
2	SATULAH MOUNTAIN	29.2	HIGHLANDS LAND TRUST INC.		
2	SERTOMA 4-H EDUCATION CENTER	272.6	NORTH CAROLINA STATE UNIVERSITY		
2	SHACKLEFORD BANKS NATIONAL WILDERNESS AREA	698.4	NATIONAL PARK SERVICE	1982	
2	SINGLETERY LAKE STATE PARK	310.9	DIVISION OF PARKS AND RECREATION	1954	3
2	SOUTH FORK RIVER	55.2	CATAWBA LANDS CONSERVANCY	1996	1
2	SOUTH MOUNTAINS GAME LAND	7253.8	WILDLIFE RESOURCES COMMISSION		4
2	SOUTH MOUNTAINS STATE PARK	1384.5	DIVISION OF PARKS AND RECREATION	1974	3
2	SOUTH RIVER (CLARK) PRESERVE	43.6	NORTH CAROLINA COASTAL LAND TRUST	1999	
2	SOUTH RIVER (SLOAN) PRESERVE	19.6	NORTH CAROLINA COASTAL LAND TRUST	1999	
2	SOUTH YADKIN WILDLIFE REFUGE	123.1	LAND TRUST FOR CENTRAL N.C.	1999	1
2	STILLWATER BOTTOM NATURE PRESERVE	3.5	NC BOTANICAL GARDEN FOUNDATION		
2	STONE MOUNTAIN STATE PARK	1253.9	DIVISION OF PARKS AND RECREATION	1969	3
2	SUGGS MILL POND GAME LAND	3789.0	WILDLIFE RESOURCES COMMISSION		1, 4, 5
2	SWANQUARTER NATIONAL WILDLIFE REFUGE	4527.2	US FISH & WILDLIFE SERVICE	1932	

Status	Status 1 & 2 Areas	Hectares	Managing Entity	Date Est.	Citation #
2	TAR RIVER	92.8	THE NATURE CONSERVANCY	1998	1
2	TELFAIRS CREEK WETLAND PRESERVE	8.5	NORTH CAROLINA COASTAL LAND TRUST	1996	
2	THREE TOP MOUNTAIN GAME LAND	496.2	WILDLIFE RESOURCES COMMISSION		4
2	THREE TOP MOUNTAIN GAME LAND DNP	632.0	WILDLIFE RESOURCES COMMISSION	1999	2, 4
2	THURMOND CHATHAM GAME LAND	2574.9	WILDLIFE RESOURCES COMMISSION		4
2	TILLEYS BRANCH	5.4	TRIANGLE LAND CONSERVANCY	1992	
2	TUCKASEIGEE RIVER EASEMENT	235.9	CONSERVATION FUND	1998	1
2	VAN SWAMP GAME LAND	2231.7	WILDLIFE RESOURCES COMMISSION	2000	4, 5
2	WATERS EDGE	183.2	GASTONIA	1998	1
2	WHITE OAK RIVER	276.5	NORTH CAROLINA COASTAL FEDERATION	2001	1
2	WHITE OAK RIVER IMPOUNDMENT GAME LAND	68.9	WILDLIFE RESOURCES COMMISSION		4
2	WHITEHALL NATURE PRESERVE	18.4	CATAWBA LANDS CONSERVANCY	1996	16
2	WILLIAM B. UMSTEAD STATE PARK	741.9	DIVISION OF PARKS AND RECREATION	1966	3
2	YATES MILL POND PARK	106.7	WAKE COUNTY	1998	

Citation List

- 1 Clean Water Management Trust Fund documentation.
- 2 Natural Heritage Program Articles of Dedication.
- 3 NC State Parks System-wide Management Plan. 2000
- 4 Federal Aid 5 Year Management Plan.
- 5 WRC Game Land Forest Management Plan.
- 6 Management Plan for the Bald Head Woods Component of the North Carolina Coastal Reserve. 1999
- 7 Final Management Plan for the Buxton Woods Component of the North Carolina Coastal Reserve. 1996
- 8 Kitty Hawk Woods Reserve Management Plan. 1998
- 9 Management Plan for the Permuda Island Component of the North Carolina Coastal Reserve. 1993
- 10 North Carolina National Estuarine Research Reserve Management Plan. 1998
- 11 Bull Neck Swamp Long-Term Ecological Research Forest Management Plan. 1998
- 12 Bluff Mountain Restoration Plan. 1992
- 13 Nantahala and Pisgah National Forests, Land and Resource Management Plan, Amendment 5. 1994
- 14 Croatan and Uwharrie Land and Resource Management Plan. 1986
- 15 WRC Red Cockaded Woodpecker Management Plan.
- 16 Management Plan for Whitehall Nature Preserve. 1999

Appendix Y. Land Management Status Records for Polygons Included in the Spatial Database. Managed Area Codes (M.A. Codes) are consistent with those maintained by the North Carolina Natural Heritage Program. See Appendix 4.5 for a complete list of Ownership and Management Codes used here.

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*683	4-H ENVIRONMENTAL EDUCATION CONFERENCE CENTER	3200	3210		3	1	99.10
M.USNCHP*731	AIRLIE GARDEN	5200	5201		4	3	27.13
M.USNCHP*24	ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE	1300	1301		2	3	59,663.69
M.USNCHP*794	ALLIGATOR RIVER PRESERVE	6200	6200		1	2	33.68
M.USNCHP*732	ALVIS FARM PARK	5100	5101		3	3	14.76
M.USNCHP*25	ANGOLA BAY GAME LAND	3300	3330		2	1	8,094.10
M.USNCHP*645	ANGOLA CREEK FLATWOODS PRESERVE DNP	6300	6302		1	1	88.37
M.USNCHP*644	ANTIOCH BAY PRESERVE DNP	6300	6302		1	1	37.84
M.USNCHP*643	APPALACHIAN STATE UNIVERSITY NATURE PRESERVE	3200	3220		2	1	26.80
M.USNCHP*524	ASHEVILLE WATERSHED CONSERVATION EASEMENT	5100	5102		2	2	7,696.28
M.USNCHP*795	AUSTELL TRUST	7100	6200		4	1	22.77
M.USNCHP*734	BACHELOR CREEK BUFFER	5100	5102		4	2	339.20
M.USNCFO*161	BALD HEAD ISLAND STATE NATURAL AREA	3100	3120		1	14	2,415.80
M.USNCHP*631	BALD HEAD WOODS COASTAL RESERVE DNP	3600	3601		1	1	77.34
M.USNCHP*395	BAY TREE LAKE STATE PARK	3100	3110		1	1	243.94
M.USNCHP*395	BAY TREE LAKE STATE PARK	3100	3110	yes	1	1	583.32
M.USNCHP*735	BELLAIR PLANTATION	7100	6200		3	3	100.33
M.USNCHP*796	BERRYHILL RHODODENDRON BLUFFS	6200	6200		3	3	3.05
M.USNCFO*17	BIG SHEEP CLIFF RIDGE PRESERVE	7100	6301		1	1	19.41
M.USNCFO*99	BIG SHOE HEEL CREEK PRESERVE	6000	6500		2	1	56.39
M.USNCHP*682	BIG TOM WILSON PRESERVE	7100	6200		3	1	3,454.40
M.USNCHP*888	BIG YELLOW MOUNTAIN PRESERVE	6200	6200		1	2	87.06
M.USNCHP*651	BIG YELLOW MOUNTAIN PRESERVE DNP	6200	6200		1	1	165.15
M.USNCHP*494	BIRKHEAD MOUNTAIN WILDERNESS	1400	1412		1	1	2,054.23
M.USNCHP*649	BLACK ANKLE BOG PRESERVE	6300	6302		1	1	114.70
M.USNCFO*19	BLACK RIVER CYPRESS FOREST PRESERVE	7100	6301		2	9	521.21

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*797	BLACK ROAD PRESERVE	7100	6200		2	1	44.43
M.USNCHP*35	BLADEN LAKES STATE FOREST	3400	3400		3	4	14,329.48
M.USNCHP*7	BLUE RIDGE PARKWAY	1600	1618		2	5	19,977.04
M.USNCHP*799	BLUFF MOUNTAIN EASEMENT	7100	6200		2	1	76.07
M.USNCHP*600	BLUFF MOUNTAIN PRESERVE DNP	6300	6302		1	1	819.56
M.USNCHP*383	BOONES CAVE STATE NATURAL AREA	3100	3110		4	1	47.89
M.USNCHP*800	BRICES CREEK	7100	6200		2	1	24.81
M.USNCHP*736	BROAD RIVER BUFFER	5200	5202		2	1	86.02
M.USNCHP*801	BUCK POND FARM	7100	6200		4	1	135.64
M.USNCHP*603	BUCKRIDGE COASTAL RESERVE DNP	3600	3601		1	6	476.11
M.USNCHP*693	BUCKRIDGE COASTAL RESERVE DNP	3600	3601		1	2	7,366.44
M.USNCHP*802	BUFFALO CREEK CYPRESS SWAMP	7100	6200		1	1	9.95
M.USNCHP*737	BUFFER	5100	5102		2	6	41.60
M.USNCHP*738	BUFFER ACQUISITION	5100	5102		2	1	36.50
M.USNCHP*639	BULL NECK SWAMP	3200	3210		3	2	1,498.61
M.USNCHP*639	BULL NECK SWAMP	3200	3220		1	2	0.77
M.USNCHP*642	BULL NECK SWAMP DNP	3200	3220		1	3	937.94
M.USNCHP*584	BULLARD AND BRANCH HUNTING PRESERVE	3300	3330		2	1	102.79
M.USNCHP*697	BULLHEAD MOUNTAIN STATE NATURAL AREA	3100	3120		1	1	87.32
M.USNCHP*56	BUSHY LAKE STATE NATURAL AREA	3100	3120		1	3	726.30
M.USNCHP*98	BUSHY LAKE STATE NATURAL AREA DNP	3100	3120		1	1	582.39
M.USNCHP*678	BUTNER-FALLS OF NEUSE GAME LAND (NCDOA)	3500	3330		2	1	3,735.57
M.USNCHP*628	BUTNER-FALLS OF NEUSE GAME LAND (USACE)	1500	3330		3	15	8,199.44
M.USNCF0*156	BUXTON WOODS COASTAL RESERVE	3600	3601		1	42	398.25
M.USNCHP*662	CAMASSIA SLOPES PRESERVE DNP	6300	6302		1	1	71.42
M.USNCHP*679	CAMP BUTNER	3000	3900		3	1	1,888.66
M.USNCHP*679	CAMP BUTNER	3000	3900	yes	3	1	31.26
M.USNCHP*803	CAMP CREEK	7100	6200		3	1	29.79
M.USNCHP*39	CAMP LEJEUNE	1500	1500		3	7	54,266.65
M.USNCHP*47	CAMP MACKALL MILITARY RESERVATION	1500	1500		3	1	3,214.09
M.USNCHP*739	CANE CREEK WATERSHED	5200	5202		3	1	22.01
M.USNCHP*804	CANE CREEK WATERSHED	5200	5202		3	30	977.41

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*581	CAPE FEAR RIVER WETLANDS GAME LAND	3300	3330		2	6	2,239.26
M.USNCHP*806	CAPE FEAR ROYAL TRACTS	6200	6200		1	3	321.41
M.USNCHP*18	CAPE HATTERAS NATIONAL SEASHORE	1600	1616		3	15	8,730.70
M.USNCHP*19	CAPE LOOKOUT NATIONAL SEASHORE	1600	1616		2	1	9,078.56
M.USNCHP*468	CARL SANDBURG HOME NATIONAL HISTORIC SITE	1600	1606		3	1	109.79
M.USNCHP*54	CAROLINA BEACH STATE PARK	3100	3110		2	2	234.99
M.USNCHP*807	CARPENTER (EASEMENT)	7100	6200		4	1	50.86
M.USNCHP*808	CASTLE BAY TRACT	6200	6200		1	1	8.09
M.USNCHP*696	CASWELL FARM GAME LAND	3500	3330		4	4	236.31
M.USNCHP*28	CASWELL GAME LAND	3300	3330		2	36	6,074.01
M.USNCHP*809	CATAWBA COLLEGE ECOLOGICAL PRESERVE	7100	6200		1	1	44.54
M.USNCHP*740	CATAWBA CREEK	5100	5102		2	2	51.18
M.USNCHP*741	CATAWBA RIVER BASIN RIPARIAN RESTORATION	5100	5102		2	1	95.41
M.USNCHP*742	CATAWBA RIVER BUFFER	4000	4100		2	5	546.83
M.USNCHP*810	CATAWBA WILDFLOWER GLEN	6200	6200		2	1	7.12
M.USNCHP*484	CATFISH LAKE SOUTH WILDERNESS	1400	1412		1	1	3,432.90
M.USNCHP*743	CEDAR FORK	5200	5202		2	1	41.76
M.USNCFO*22	CEDAR GROVE LEWIS'S HEARTLEAF PRESERVE	6300	6302		4	1	5.46
M.USNCHP*55	CEDAR ISLAND NATIONAL WILDLIFE REFUGE	1300	1301		2	12	5,759.08
M.USNCFO*23	CEDAR SWAMP SEEP PRESERVE	6300	6302		2	1	19.18
M.USNCHP*630	CHEROKEE NATIONAL FOREST	1400	1400		3	1	128.14
M.USNCHP*695	CHERRY FARM GAME LAND	3500	3330		4	2	404.32
M.USNCHP*811	CHESTNUT RIDGE-ROAN	6200	6200		3	1	99.26
M.USNCHP*583	CHOWAN GAME LAND	3300	3330		2	1	15.80
M.USNCHP*45	CHOWAN SWAMP GAME LAND	3300	3330		2	1	93.40
M.USNCHP*403	CHOWAN SWAMP STATE NATURAL AREA	3100	3120		1	4	2,835.94
M.USNCHP*744	CHOWAN WETLAND RESTORATION	6000	6700		2	4	20.03
M.USNCHP*745	CLARKE CREEK ROOKERY	6200	6200		2	1	14.82
M.USNCHP*621	CLEMMONS STATE FOREST	3400	3400		3	1	202.46
M.USNCHP*384	CLIFFS OF THE NEUSE STATE PARK	3100	3110		2	1	317.36
M.USNCHP*553	COLUMBUS COUNTY GAME LAND	3300	3330		1	1	2,426.22
M.USNCHP*746	COOLEEMEE RIVERPARK	6200	6200		2	2	33.63

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*747	CORE CREEK EASEMENT	7100	6200		2	1	57.90
M.USNCHP*812	CRABTREE CREEK WATERSHED PROJECT	5200	5202		3	13	219.36
M.USNCHP*748	CRAWFORD CREEK EASEMENT	7100	6200		2	3	318.71
M.USNCHP*17	CROATAN NATIONAL FOREST	1400	1400		3	36	52,628.42
M.USNCHP*385	CROWDERS MOUNTAIN STATE PARK	3100	3110		2	6	1,555.93
M.USNCHP*117	CROWDERS MOUNTAIN STATE PARK-CROWDERS MOUNTAIN DNP	3100	3110		1	1	256.41
M.USNCHP*454	CROWDERS MOUNTAIN STATE PARK/KINGS PINNACLE DNP	3100	3110		1	1	228.49
M.USNCHP*813	CURRIE HILL	7100	6200		2	1	15.55
M.USNCHP*410	CURRITUCK BANKS ESTUARINE RESERVE	3600	3603		1	2	142.36
M.USNCHP*722	CURRITUCK BANKS GAME LAND	3300	3330		2	1	38.39
M.USNCHP*511	CURRITUCK NATIONAL WILDLIFE REFUGE	1300	1301		2	40	1,200.29
M.USNCHP*661	CURRITUCK OUTER BANKS PRESERVE DNP	6300	6302		1	1	25.86
M.USNCHP*814	DALTON	7100	6200		4	1	38.58
M.USNCHP*749	DAN RIVER	6200	6200		1	2	129.16
M.USNCHP*42	DARE COUNTY AIR FORCE RANGE	1500	1500		3	1	18,710.60
M.USNCHP*815	DAVID WELLS NATURE PRESERVE	6200	6200		4	1	12.27
M.USNCHP*816	DENR-WETLAND RESTORATION SITES	3300	3320		2	1	58.37
M.USNCHP*817	DENR-WRC HUNTING CREEK SWAMP	3300	3320		1	2	64.63
M.USNCHP*750	DENSONS/HUGH CREEKS	5100	5102		2	2	140.74
M.USNCFO*25	DEVIL'S GUT PRESERVE	6300	6302		1	1	404.40
M.USNCHP*663	DEVIL'S GUT PRESERVE DNP	6300	6302		1	1	450.98
M.USNCHP*22	DISMAL SWAMP STATE NATURAL AREA	3100	3120		1	1	5,806.86
M.USNCFO*26	DONNELLEY HARDPAN BOG PRESERVE	6000	6500		2	1	56.32
M.USNCHP*751	DRUMMOND POINT PRESERVATION AREA	6000	6700		2	1	32.04
M.USNCHP*647	DUNAHOE BAY PRESERVE DNP	6300	6302		1	1	24.78
M.USNCHP*818	DUPONT RESERVE	6200	6200		2	5	180.07
M.USNCHP*627	DUPONT STATE FOREST	3400	3400		3	5	2,015.79
M.USNCHP*819	DURANT NATURE PARK	5100	5101		3	1	105.02
M.USNCHP*611	EAGLE ISLAND	1500	1550		4	1	616.24
M.USNCHP*820	EASTOVER RIDGE PRESERVE	7100	6200		2	1	9.06

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*480	ELLICOTT ROCK WILDERNESS	1400	1412		1	1	1,382.10
M.USNCHP*386	ENO RIVER STATE PARK	3100	3110		2	21	712.32
M.USNCHP*122	ENO RIVER STATE PARK DNP	3100	3110		1	9	366.98
M.USNCHP*752	EVERHART RIPARIAN EASEMENT	7100	6200		1	1	2.75
M.USNCHP*821	FALL CREEK FALLS	6200	6200		4	1	18.14
M.USNCHP*822	FALLS LAKE	1500	1550	yes	4	3	5,263.84
M.USNCHP*41	FALLS LAKE STATE RECREATION AREA	1500	3140		2	11	2,105.90
M.USNCHP*716	FAYETTEVILLE PUBLIC WORKS LAND	5100	5102		3	16	367.67
M.USNCHP*710	FIVE EAGLE PARTNERS TRACT EASEMENT	7100	6200		3	1	468.31
M.USNCHP*823	FLORENCE	6200	6200		4	1	220.85
M.USNCHP*824	FLOWER HILL NATURE PRESERVE	6200	6200		1	1	3.91
M.USNCHP*825	FONTANA LAKE	1500	1561		4	1	1,871.75
M.USNCHP*5	FORT BRAGG MILITARY RESERVATION	1500	1500		3	4	61,928.71
M.USNCHP*401	FORT FISHER STATE RECREATION AREA	3100	3140		2	1	192.10
M.USNCHP*387	FORT MACON STATE PARK	3100	3110		2	1	200.42
M.USNCHP*477	FORT RALEIGH NATIONAL HISTORIC SITE	1600	1606		3	5	146.48
M.USNCHP*826	FOSCUE PLANTATION	7100	6200		3	1	252.67
M.USNCHP*753	FRANK PARKER PRESERVE	7100	6200		3	1	101.98
M.USNCHP*827	FREE AT LAST EASEMENT	7100	6200		3	1	26.32
M.USNCHP*828	FWS PERMANENT EASEMENT	7100	1304		2	154	1,878.78
M.USNCHP*829	GAR CREEK - BRANDEMAIER	6200	6200		1	1	5.73
M.USNCHP*830	GEORGES CREEK	6200	6200		1	1	13.20
M.USNCHP*699	GOODWIN STATE FOREST	3400	3400		3	1	458.50
M.USNCHP*37	GOOSE CREEK GAME LAND	3300	3330		2	12	3,096.18
M.USNCHP*388	GOOSE CREEK STATE PARK	3100	3110		2	2	652.37
M.USNCHP*654	GOOSE POND BAY PRESERVE DNP	6300	6302		1	1	30.48
M.USNCHP*602	GORGES STATE PARK	3100	3110		2	1	2,978.28
M.USNCHP*599	GRANDFATHER MOUNTAIN PRESERVE DNP	6300	6302		1	2	391.27
M.USNCHP*586	GRANDVIEW OVERLOOK SLOPES CONSERVATION EASEMENT	7100	6200		1	2	115.34
M.USNCHP*21	GREAT DISMAL SWAMP NATIONAL WILDLIFE REFUGE	1300	1301		2	2	10,497.57
M.USNCHP*53	GREAT SMOKY MOUNTAINS NATIONAL PARK	1600	1611		1	1	111,346.00

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*576	GREEN RIVER GAME LAND	3300	3330		2	8	4,964.95
M.USNCHP*46	GREEN RIVER GAME LAND DNP	3300	3330		1	11	764.88
M.USNCHP*708	GREEN RIVER HEADWATERS PRESERVE	7100	6301		2	2	173.74
M.USNCFO*31	GREEN SWAMP PRESERVE	6300	6302		1	1	5,484.38
M.USNCHP*521	GUILFORD COURTHOUSE NATIONAL MILITARY PARK	1600	1609		3	3	87.13
M.USNCHP*44	GULL ROCK GAME LAND	3300	3330		2	5	10,627.56
M.USNCHP*831	GWEN VALLEY INC	7100	6200		4	1	108.57
M.USNCHP*832	HAGEN-STONE/CAMP JOY	5200	5201		3	1	156.25
M.USNCHP*389	HAMMOCKS BEACH STATE PARK	3100	3110		2	4	503.96
M.USNCHP*64	HANGING ROCK STATE PARK	3100	3110		2	11	1,478.98
M.USNCHP*431	HANGING ROCK STATE PARK/CASCADE CREEK DNP	3100	3110		1	1	12.19
M.USNCHP*140	HANGING ROCK STATE PARK/HANGING ROCK DNP	3100	3110		1	1	177.13
M.USNCHP*430	HANGING ROCK STATE PARK/MOORES KNOB/COOKS WALL DNP	3100	3110		1	1	753.28
M.USNCHP*680	HAWS RUN MITIGATION SITE	3800	3801		1	1	243.54
M.USNCHP*833	HAY STACK MARSH PRESERVE	6200	6200		1	2	36.95
M.USNCHP*754	HAYMARKET TRACT	5200	5202		2	1	49.26
M.USNCHP*834	HAYTHORNE	7100	6200		4	1	13.29
M.USNCHP*404	HEMLOCK BLUFFS STATE NATURAL AREA	3100	3120		1	1	40.61
M.USNCHP*835	HENDREN EASEMENT	7100	6200		4	1	16.83
M.USNCHP*687	HIDDEN LAKE NATURE PRESERVE	7200	7400		2	1	341.06
M.USNCHP*414	HILL DEMONSTRATION FOREST	3200	3210		3	5	663.71
M.USNCHP*412	HILL FOREST/FLAT RIVER DNP	3200	3220		2	2	56.23
M.USNCHP*836	HINSON GAMELAND	3300	3330		3	2	115.04
M.USNCFO*57	HOBUCKEN MARSH PRESERVE	3000	3320		4	1	861.52
M.USNCHP*837	HOBUCKEN MARSHES PRESERVE	7100	6200		1	2	31.87
M.USNCHP*27	HOLLY SHELTER GAME LAND	3300	3330		2	3	19,507.83
M.USNCHP*623	HOLMES STATE EDUCATIONAL FOREST	3400	3400		3	2	88.96
M.USNCHP*503	HOPE HOLE CREEK	6200	6200		1	1	12.89
M.USNCHP*694	HOWELL WOODS ENVIRONMENTAL LEARNING CENTER	3200	3220		2	2	1,209.57
M.USNCHP*755	HUNTING CREEK BUFFER	6000	6600		2	1	7.64

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCFO*100	INDIGO PLANTATION MARSH PRESERVE	6200	6200		1	2	40.16
M.USNCHP*757	IP WARD-BECK EASEMENT	7100	6200		3	1	47.87
M.USNCHP*691	J. MORGAN FUTCH GAME LAND	3300	3330		3	7	239.82
M.USNCHP*390	JOCKEY'S RIDGE STATE PARK	3100	3110		2	6	19.93
M.USNCHP*566	JOCKEY'S RIDGE STATE PARK DNP	3100	3110		1	1	155.36
M.USNCHP*646	JOE MOUNTAIN PRESERVE DNP	6300	6302		1	1	17.09
M.USNCHP*758	JOHNSTON MILL NATURE PRESERVE	6200	6200		1	1	103.26
M.USNCHP*838	JOHNSTON MILL NATURE PRESERVE	6200	6200		1	1	13.46
M.USNCHP*585	JONES ISLAND AUDUBON SANCTUARY	6100	6100		1	1	4.94
M.USNCHP*50	JONES LAKE STATE PARK	3100	3110		2	3	80.77
M.USNCHP*155	JONES LAKE STATE PARK DNP	3100	3110		1	1	493.03
M.USNCHP*155	JONES LAKE STATE PARK DNP	3100	3110	yes	1	2	205.14
M.USNCHP*625	JORDAN GAME LAND	1500	3330		2	7	11,102.29
M.USNCHP*625	JORDAN GAME LAND	1500	3330		3	3	148.99
M.USNCHP*626	JORDAN LAKE - NCDNR	1500	3400		3	1	110.07
M.USNCHP*608	JORDAN LAKE - USACE	1500	1550		3	2	240.07
M.USNCHP*608	JORDAN LAKE - USACE	1500	1550	yes	3	8	5,333.64
M.USNCHP*402	JORDAN LAKE STATE RECREATION AREA	1500	3140		2	5	1,851.76
M.USNCHP*473	JOYCE KILMER WILDERNESS	1400	1412		1	1	5,501.85
M.USNCHP*458	KERR LAKE STATE RECREATION AREA	1500	3140		2	8	862.04
M.USNCHP*592	KERR RESERVOIR	1500	1550		3	48	6,883.11
M.USNCHP*592	KERR RESERVOIR	1500	1550	yes	3	13	4,585.75
M.USNCHP*526	KITTY HAWK WOODS COASTAL RESERVE	3600	3601		1	104	549.83
M.USNCHP*526	KITTY HAWK WOODS COASTAL RESERVE	3600	3601	yes	1	1	0.01
M.USNCHP*759	LA GRANGE RIPARIAN RESERVE	6200	6200		1	1	143.75
M.USNCHP*391	LAKE JAMES STATE PARK	3100	3110		2	1	252.41
M.USNCHP*839	LAKE JOHNSON PARK	5100	5101		3	1	188.11
M.USNCHP*840	LAKE LYNN PARK	5100	5101		3	3	26.09
M.USNCHP*841	LAKE LYNN WATERSHED PROJECT	5100	5102		3	1	2.15
M.USNCHP*459	LAKE NORMAN STATE PARK	3100	3110		2	4	586.14
M.USNCHP*407	LAKE PHELPS STATE LAKE	3100	3110	yes	2	1	6,440.26
M.USNCHP*36	LAKE WACCAMAW STATE PARK	3100	3110		2	2	4,295.02

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*842	LAKE WHEELER PARK	5100	5101		3	2	31.82
M.USNCHP*579	LANTERN ACRES GAME LAND/CRESWELL WETLANDS	3300	3330		2	3	1,159.76
M.USNCFO*154	LARKSPUR RIDGE PRESERVE	6300	6302		1	1	32.67
M.USNCHP*664	LARKSPUR RIDGE PRESERVE DNP	6300	6302		1	1	8.31
M.USNCHP*843	LATTA PLANTATION NATURE PARK II	5200	5201		2	1	183.18
M.USNCHP*844	LAUREL HILL NATURE PRESERVE	6000	6400		1	2	35.57
M.USNCHP*615	LINWOOD GAME LAND	3300	3330		3	1	58.24
M.USNCHP*760	LITTLE BUFFALO CREEK BUFFER	5100	5102		2	1	107.85
M.USNCHP*761	LITTLE RIVER REGIONAL PARK AND NATURAL AREA	5200	5201		2	3	155.86
M.USNCHP*845	LITTLE RIVER WETLAND MITIGATION SITE (TAYLOR TRACT	6200	6200		1	1	135.61
M.USNCHP*762	LITTLE TENNESSEE BUFFER	7100	6200		2	1	24.75
M.USNCHP*846	LONG CREEK BLUFF	7100	6200		1	1	6.10
M.USNCHP*558	LORDS CREEK WETLAND PRESERVE	6200	6200		2	1	10.60
M.USNCHP*66	LUMBER RIVER STATE PARK	3100	3110		2	17	2,332.23
M.USNCHP*495	LUMBER RIVER STATE PARK/PINEY ISLAND/NET HOLE DNP	3100	3110		1	1	522.95
M.USNCHP*26	MACKAY ISLAND NATIONAL WILDLIFE REFUGE	1300	1301		2	3	2,936.53
M.USNCHP*847	MASON FARM BIOLOGICAL RESERVE	3200	3210		3	1	142.18
M.USNCHP*413	MASONBORO ISLAND ESTUARINE RESERVE	3600	3603		1	4	2,283.63
M.USNCHP*466	MATTAMUSKEET NATIONAL WILDLIFE REFUGE	1300	1301		2	10	3,806.87
M.USNCHP*466	MATTAMUSKEET NATIONAL WILDLIFE REFUGE	1300	1301	yes	2	2	16,218.42
M.USNCHP*59	MCAS CHERRY POINT - ATLANTIC AIRFIELD	1500	1500		3	1	598.75
M.USNCHP*60	MCAS CHERRY POINT - MAIN AIR STATION	1500	1500		3	3	4,439.51
M.USNCHP*706	MCAS CHERRY POINT - MAW POINT MARSHES	1500	1500		3	1	29.90
M.USNCHP*62	MCAS CHERRY POINT - OAK GROVE AIRFIELD	1500	1500		3	1	345.64
M.USNCHP*58	MCAS CHERRY POINT - PINEY ISLAND	1500	1500		3	2	4,892.50
M.USNCHP*848	MCCAULEY MOUNTAIN	6200	6200		1	1	9.41
M.USNCHP*849	MCDOWELL PARK	5200	5201		2	1	54.45
M.USNCHP*763	MCGOWAN CREEK PRESERVE	5200	5201		2	1	25.59
M.USNCHP*660	MCINTOSH BAY PRESERVE DNP	6300	6302		1	2	52.36
M.USNCHP*474	MCKINNEY LAKE NATIONAL FISH HATCHERY	1300	3340		4	1	197.33

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*764	MEARS FORK	6200	6200		2	4	50.61
M.USNCHP*63	MEDOC MOUNTAIN STATE PARK	3100	3110		2	1	978.27
M.USNCHP*392	MERCHANTS MILLPOND STATE PARK	3100	3110		2	2	1,250.15
M.USNCHP*850	MIDDLE CREEK	6200	6200		2	1	6.57
M.USNCHP*851	MIDDLE CREEK BOTTOMLANDS	6200	6200		2	1	24.38
M.USNCHP*487	MIDDLE PRONG WILDERNESS	1400	1412		1	1	3,061.01
M.USNCHP*52	MILITARY OCEAN TERMINAL SUNNY POINT	1500	1500		3	5	4,872.47
M.USNCFO*153	MINERAL SPRINGS BARRENS PRESERVE	6300	6302		3	1	16.73
M.USNCHP*462	MITCHELL MILL STATE NATURAL AREA	3100	3120		1	2	38.05
M.USNCHP*765	MITCHELL RIVER BUFFER	6200	6200		1	1	85.87
M.USNCHP*766	MITCHELL RIVER EASEMENT	7100	6200		2	2	14.44
M.USNCHP*20	MOORES CREEK NATIONAL BATTLEFIELD	1600	1602		3	1	40.18
M.USNCHP*852	MORGAN GLEN	7100	6200		2	1	3.50
M.USNCHP*29	MORROW MOUNTAIN STATE PARK	3100	3110		2	1	1,799.77
M.USNCHP*598	MOTHER VINEYARD	3700	3700		3	1	62.13
M.USNCHP*396	MOUNT JEFFERSON STATE NATURAL AREA	3100	3120		1	1	223.37
M.USNCHP*397	MOUNT MITCHELL STATE PARK	3100	3110		2	3	615.11
M.USNCHP*648	MYRTLE HEAD SAVANNA PRESERVE DNP	6300	6302		1	1	29.33
M.USNCHP*659	NAGS HEAD WOODS PRESERVE DNP	6300	6302		2	2	167.25
M.USNCHP*9	NANTAHALA NATIONAL FOREST - CHEOAH RANGER DISTRICT	1400	1400		3	58	43,856.14
M.USNCHP*4	NANTAHALA NATIONAL FOREST - TUSQUITEE RANGER DISTRICT	1400	1400		3	53	62,365.59
M.USNCHP*6	NANTAHALA NATIONAL FOREST - WAYAH RANGER DISTRICT	1400	1400		3	57	53,201.57
M.USNCHP*6	NANTAHALA NATIONAL FOREST - WAYAH RANGER DISTRICT	1400	1400	yes	3	1	17.16
M.USNCHP*767	NEUSE RIVER BUFFER	5100	5102		3	3	266.27
M.USNCHP*582	NEUSE RIVER GAME LAND	3300	3330		2	9	52.42
M.USNCHP*853	NEVILLS CREEK	7100	6200		3	1	214.76
M.USNCHP*768	NEW HOPE CREEK	6200	6200		1	3	19.60
M.USNCHP*769	NEW HOPE CREEK WATERSHED	5200	5202		2	16	238.96

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*756	NEW LAKE GAME LAND	3300	3330		2	1	687.73
M.USNCHP*770	NEW RIVER (NORTH FORK) BUFFER	6200	6200		2	1	51.75
M.USNCHP*771	NEW RIVER (SOUTH FORK) BUFFER	6200	6200		2	2	63.50
M.USNCHP*398	NEW RIVER STATE PARK	3100	3110		2	15	544.33
M.USNCFO*40	NEWPORT RIVER MARSH PRESERVE	6300	6302		3	1	216.95
M.USNCHP*523	NORTH CAROLINA ZOOLOGICAL PARK	3300	3320		3	4	649.67
M.USNCHP*559	NORTH CHASE BOTTOMLANDS PRESERVE	6200	6200		2	1	4.81
M.USNCHP*772	NORTH RIVER	6200	6200		2	1	835.78
M.USNCHP*43	NORTH RIVER GAME LAND	3300	3330		2	12	7,739.20
M.USNCHP*574	NORTH RIVER GAME LAND DNP	3300	3330		1	2	431.71
M.USNCHP*8	NORTHWEST RIVER MARSH GAME LAND	3300	3330		2	7	1,191.78
M.USNCHP*854	NORWOOD TRACT	6200	6200		2	1	16.65
M.USNCHP*560	OAK ISLAND MARSHES PRESERVE	6200	6200		1	2	261.46
M.USNCHP*666	OAK SAVANNA BAY PRESERVE DNP	6300	6302		1	1	14.12
M.USNCHP*520	OCCONEECHEE MOUNTAIN STATE NATURAL AREA	3100	3120		1	1	48.55
M.USNCHP*589	OCHLAWAHA BOG DNP	3500	3500		1	1	1.41
M.USNCFO*42	OCHLAWAHA BOG PRESERVE	6200	6200		4	1	1.16
M.USNCHP*725	ODOM CORRECTIONAL INSTITUTE	3000	3900		4	1	13.46
M.USNCFO*206	OLD DOCK SAVANNA PRESERVE	6300	6302		1	1	20.65
M.USNCHP*855	OTTER CREEK NATURAL AREA	3200	3220		2	2	27.82
M.USNCHP*638	PALMETTO-PEARTREE PRESERVE	6200	6200		2	6	4,168.76
M.USNCHP*773	PARKERTOWN ROAD BUFFER	5100	5102		2	1	88.63
M.USNCHP*774	PAUL AND AGNES RHYNE CONSERVATION EASEMENT	7100	6200		4	3	91.45
M.USNCHP*889	PAUL AND AGNES RHYNE CONSERVATION PRESERVE	6200	6200		1	2	29.57
M.USNCHP*467	PEA ISLAND NATIONAL WILDLIFE REFUGE	1300	1301		2	31	1,853.98
M.USNCHP*51	PEE DEE NATIONAL WILDLIFE REFUGE	1300	1301		2	8	3,477.43
M.USNCHP*857	PEGG HILL	6200	6200		1	1	29.74
M.USNCHP*681	PERMUDA ISLAND COASTAL RESERVE	3600	3601		1	1	23.37
M.USNCHP*399	PETTIGREW STATE PARK	3100	3110		2	3	514.48
M.USNCHP*712	PIEDMONT RESEARCH STATION	3500	3500		4	1	464.25

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*457	PILOT MOUNTAIN STATE PARK	3100	3110		2	1	1,498.61
M.USNCHP*470	PINE ISLAND AUDUBON SANCTUARY	6100	6100		1	2	630.15
M.USNCHP*775	PINE ORCHARD CREEK BUFFER	6200	6200		2	1	21.56
M.USNCHP*858	PINECROFT LAKE PARK	7100	6200		2	1	5.84
M.USNCHP*776	PINHOOK PRESERVE	6200	6200		1	1	29.00
M.USNCHP*688	PISGAH NATIONAL FOREST - APPALACHIAN RANGER DISTRICT	1400	1400		3	78	64,652.51
M.USNCHP*10	PISGAH NATIONAL FOREST - GRANDFATHER RANGER DISTRICT	1400	1400		3	24	70,842.67
M.USNCHP*479	PISGAH NATIONAL FOREST - LINVILLE GORGE WILDERNESS	1400	1412		1	1	4,745.87
M.USNCHP*16	PISGAH NATIONAL FOREST - PISGAH RANGER DISTRICT	1400	1400		3	15	52,386.56
M.USNCHP*488	PISGAH NATIONAL FOREST - SHINING ROCK WILDERNESS	1400	1412		1	1	7,526.18
M.USNCHP*859	PLEASANT OAKS PLANTATION	7100	6200		3	2	902.40
M.USNCHP*65	POCOSIN LAKES NATIONAL WILDLIFE REFUGE	1300	1301		2	27	46,264.68
M.USNCHP*483	POCOSIN WILDERNESS	1400	1412		1	1	4,775.24
M.USNCHP*482	POND PINE WILDERNESS	1400	1412		1	1	684.02
M.USNCHP*422	POPE AIR FORCE BASE	1500	1500		3	1	667.35
M.USNCHP*653	PRETTY POND BAY PRESERVE DNP	6300	6302		1	1	16.48
M.USNCHP*860	PROVINCETOWN FOREST	6200	6200		2	1	1.48
M.USNCHP*478	PUNGO RIVER GAME LAND	3300	3330		2	2	190.82
M.USNCHP*415	RACHEL CARSON ESTUARINE RESERVE DNP	3600	3603		2	2	936.04
M.USNCHP*777	RAMAH CREEK	6200	6200		3	1	725.37
M.USNCHP*861	RANKINTOWN NATURE PRESERVE	7100	6200		2	1	29.48
M.USNCHP*393	RAVEN ROCK STATE PARK	3100	3110		2	7	922.44
M.USNCHP*564	RAVEN ROCK STATE PARK DNP	3100	3110		1	6	643.42
M.USNCHP*862	REDLAIR FARM AND FOREST	7100	6200		3	3	285.44
M.USNCHP*778	REDSTONE POINT PRESERVATION	5200	5202		2	1	8.86
M.USNCHP*709	REED GOLD MINE HISTORIC SITE	3700	3700		4	4	336.35
M.USNCHP*863	REID WILDFLOWER GARDEN	7100	6200		4	2	1.36
M.USNCHP*3	RENDEZVOUS MOUNTAIN STATE FOREST	3400	3400		3	1	720.80

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*779	RESTORATION	5100	5102		2	3	45.18
M.USNCHP*780	RIVER OAKS PLANTATION	6200	6200		1	1	44.74
M.USNCHP*672	ROANOKE ISLAND MARSHES GAME LAND	3300	3330		1	4	439.63
M.USNCFO*46	ROANOKE ISLAND MARSHES GAME LAND DNP	3300	3330		1	2	291.43
M.USNCFO*262	ROANOKE RIVER - TNC/GP PARTNERSHIP	7100	6301		3	7	8,510.50
M.USNCHP*70	ROANOKE RIVER NATIONAL WILDLIFE REFUGE	1300	1301		2	7	7,210.88
M.USNCHP*67	ROANOKE RIVER WETLANDS GAME LAND	3300	3330		2	9	1,394.62
M.USNCHP*408	ROANOKE RIVER WETLANDS GAME LAND DNP	3300	3330		1	16	3,336.32
M.USNCHP*580	ROBESON COUNTY GAME LAND	3300	3330		2	1	17.30
M.USNCFO*76	ROCKY HOCK SWAMP FOREST PRESERVE	6300	6302		2	1	37.09
M.USNCHP*864	ROCKY KNOB	7100	6200		4	1	58.06
M.USNCHP*555	RUN HILL STATE NATURAL AREA	3100	3120		1	1	2.30
M.USNCHP*565	RUN HILL STATE NATURAL AREA	3100	3120		1	1	49.06
M.USNCHP*616	SAMPSON COUNTY GAME LAND	3300	3330		2	2	72.06
M.USNCHP*23	SANDHILLS GAME LAND	3300	3330		3	39	23,551.46
M.USNCHP*781	SANDY CREEK	5100	5102		2	1	69.75
M.USNCHP*865	SANDY CREEK SITE	5200	5202		3	1	41.18
M.USNCHP*867	SATULAH MOUNTAIN	6200	6200		2	3	29.20
M.USNCHP*868	SCHENCK FOREST	3200	3210		3	5	179.68
M.USNCFO*77	SCUPPERNONG RIVER PRESERVE	6300	6302		1	3	225.10
M.USNCHP*684	SERTOMA 4-H EDUCATION CENTER	3200	3210		2	5	272.56
M.USNCHP*492	SHACKLEFORD BANKS NATIONAL WILDERNESS AREA	1600	1617		2	1	698.39
M.USNCHP*869	SHEARON HARRIS COUNTY PARK	5200	5201		3	1	238.60
M.USNCHP*481	SHEEP RIDGE WILDERNESS	1400	1412		1	1	3,768.96
M.USNCHP*870	SHELLEY LAKE/SERTOMA PARK	5100	5101		3	3	12.12
M.USNCHP*382	SINGLETARY LAKE STATE PARK	3100	3110		2	1	310.92
M.USNCHP*382	SINGLETARY LAKE STATE PARK	3100	3110	yes	2	1	232.48
M.USNCHP*871	SMITH/BURNS TRACT	7100	6200		3	1	18.89
M.USNCHP*782	SOUTH FORK RIVER	6200	6200		2	3	55.24
M.USNCHP*577	SOUTH MOUNTAINS GAME LAND	3300	3330		2	5	7,253.77
M.USNCHP*400	SOUTH MOUNTAINS STATE PARK	3100	3110		2	8	1,384.51
M.USNCHP*567	SOUTH MOUNTAINS STATE PARK DNP	3100	3110		1	1	4,975.63

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*509	SOUTH RIVER (CLARK) PRESERVE	7100	6200		2	1	43.60
M.USNCHP*510	SOUTH RIVER (SLOAN) PRESERVE	7100	6200		2	1	19.63
M.USNCHP*556	SOUTH RIVER PRESERVE	6200	6200		1	1	24.51
M.USNCHP*783	SOUTH YADKIN WILDLIFE REFUGE	6200	6200		2	1	123.11
M.USNCHP*490	SOUTHERN NANTAHALA WILDERNESS	1400	1412		1	1	4,854.67
M.USNCHP*784	SPENCER MOUNTAIN WETLAND	6200	6200		1	2	41.12
M.USNCHP*872	STANBACK FARM NATURAL AREA	7100	6200		3	1	57.36
M.USNCHP*652	STATELINE PRAIRIE BAY PRESERVE DNP	6300	6302		1	1	3.27
M.USNCHP*873	STEEP BOTTOM	6200	6200		1	1	11.79
M.USNCHP*874	STILLWATER BOTTOM NATURE PRESERVE	7100	6400		2	1	3.49
M.USNCHP*875	STILLWATER BOTTOM NATURE PRESERVE	6000	6400		1	1	6.81
M.USNCHP*2	STONE MOUNTAIN STATE PARK	3100	3110		2	15	1,253.91
M.USNCHP*238	STONE MOUNTAIN STATE PARK DNP	3100	3110		1	2	4,022.02
M.USNCHP*578	SUGGS MILL POND GAME LAND	3300	3330		2	11	3,788.99
M.USNCHP*493	SWANQUARTER NATIONAL WILDERNESS AREA	1300	1303		1	17	2,209.07
M.USNCHP*876	SWIFT CREEK BLUFFS DNP	6200	6200		1	4	9.70
M.USNCHP*785	TAR RIVER	6300	6302		2	2	92.77
M.USNCHP*786	TAYLOR EASEMENT	7100	6200		3	1	101.05
M.USNCHP*557	TELFAIRS CREEK WETLAND PRESERVE	6200	6200		2	1	8.51
M.USNCHP*877	TEMPLE FLAT ROCK	6200	6200		1	1	15.39
M.USNCHP*549	THE NECK SAVANNA PRESERVE	6300	6302		1	1	178.77
M.USNCHP*405	THEODORE ROOSEVELT STATE NATURAL AREA	3100	3120		1	1	124.80
M.USNCFO*220	THREE TOP MOUNTAIN GAME LAND	3300	3330		2	7	496.20
M.USNCHP*605	THREE TOP MOUNTAIN GAME LAND DNP	3300	3330		2	6	631.99
M.USNCHP*489	THURMOND CHATHAM GAME LAND	3300	3330		2	3	2,574.89
M.USNCHP*714	TIDEWATER RESEARCH STATION	3500	3500		4	3	656.29
M.USNCHP*878	TILLEY'S BRANCH	7100	6200		2	1	2.46
M.USNCHP*878	TILLEYS BRANCH	7100	6200		2	1	2.08
M.USNCHP*879	TILLEYS BRANCH	6200	6200		2	1	0.90
M.USNCHP*787	TODD SOUTH FORK GREENWAY	6200	6200		1	1	35.08
M.USNCHP*715	TOWN CREEK (IP) EASEMENT	7100	6200		3	1	450.68
M.USNCHP*601	TOXAWAY GAME LAND	3300	3330		1	2	1,145.34

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*788	TUCKASEIGEE RIVER EASEMENT	7100	6200		2	1	235.92
M.USNCHP*640	TURKEY QUARTER ISLAND PRESERVE	6200	3320		1	2	590.39
M.USNCHP*622	TUTTLE STATE FOREST	3400	3400		3	1	51.17
M.USNCHP*880	UNIVERSITY LAKE	3200	3220		3	1	195.33
M.USNCFO*13	UPPER ALLIGATOR RIVER PRESERVE	6300	6302		1	1	160.94
M.USNCHP*711	UPPER MOUNTAIN RESERCH STATION	3500	3500		4	6	172.15
M.USNCHP*12	UWHARRIE NATIONAL FOREST	1400	1400		3	64	18,424.98
M.USNCHP*690	VAN SWAMP GAME LAND	3300	3330		2	1	2,231.74
M.USNCHP*789	VILES PROPERTY I	6200	6200		3	2	88.47
M.USNCHP*790	VILES PROPERTY II	6200	6200		3	1	26.31
M.USNCHP*612	VOICE OF AMERICAN SITE A	1000	1001		3	1	1,133.57
M.USNCHP*613	VOICE OF AMERICAN SITE B	1000	1001		3	1	1,117.76
M.USNCHP*614	VOICE OF AMERICAN SITE C	1000	1001		3	1	263.19
M.USNCHP*881	WALKERS MILLPOND	7100	6200		3	2	452.12
M.USNCHP*791	WATERS EDGE	5100	5102		2	1	183.21
M.USNCHP*607	WAYNESBOROUGH STATE PARK	3100	3110		3	1	54.04
M.USNCHP*792	WETLAND RESTORATION	5100	5102		1	1	35.37
M.USNCHP*406	WEYMOUTH WOODS SANDHILLS NATURE PRESERVE	3100	3120		1	7	73.95
M.USNCHP*255	WEYMOUTH WOODS SANDHILLS NATURE PRESERVE DNP	3100	3120		1	1	193.95
M.USNCHP*455	WEYMOUTH WOODS SANDHILLS NATURE PRESERVE/BOYD ESTATE DNP	3100	3120		1	1	58.43
M.USNCHP*456	WEYMOUTH WOODS SANDHILLS NATURE PRESERVE/PAINT HILL DNP	3100	3120		1	1	32.18
M.USNCHP*882	WHIT AND CATHY SMITH EASEMENT	7100	6200		3	1	119.14
M.USNCHP*464	WHITE LAKE STATE LAKE	3100	3130	yes	4	1	421.50
M.USNCHP*793	WHITE OAK RIVER	6200	6200		2	1	276.50
M.USNCHP*49	WHITE OAK RIVER IMPOUNDMENT GAME LAND	3300	3330		2	2	68.95
M.USNCHP*884	WHITE PINES NATURE PRESERVE	6200	6200		1	2	35.24
M.USNCHP*347	WHITE PINES NATURE PRESERVE DNP	6200	6200		1	2	80.29
M.USNCHP*501	WHITEHALL NATURE PRESERVE	6200	6200		2	1	18.35
M.USNCHP*394	WILLIAM B. UMSTEAD STATE PARK	3100	3110		2	5	741.86

M.A. Code	Division / Unit	Owner	Manager	Water	Status	Polygons	Hectares
M.USNCHP*496	WILLIAM B. UMSTEAD STATE PARK DNP	3100	3110		1	2	1,493.61
M.USNCHP*885	WILLIAMS TRADE LANDS	6200	6200		4	3	70.06
M.USNCFO*208	WILSON CREEK SLOPES PRESERVE	7100	6301		1	1	55.73
M.USNCHP*886	WOMBLE TRACT	7100	6200		3	1	27.22
M.USNCHP*1638	WRIGHT BROTHERS NATIONAL MEMORIAL	1600	1608		3	2	170.77
M.USNCHP*887	YATES MILL POND PARK	5200	5201		2	1	106.69
M.USNCHP*13	ZEKES ISLAND ESTUARINE RESERVE	3600	3603		1	1	632.58

Appendix Z. List of Land Ownership and Management Codes Used in the North Carolina Land Management Status Database.

Code	Owning or Managing Entity	Code	Owning or Managing Entity
1000	Federal - Other	3400	State Forestry Department
1001	US Information Services	3500	State Department of Agriculture
1300	US Fish and Wildlife Service	3600	State Coastal Management Division
1301	National Wildlife Refuge (USFWS)	3601	Coastal Reserve (NCDENR-DCM)
1303	Wilderness Area (USFWS)	3603	National Estuarine Research Reserve (NCDENR-DCM)
1304	Conservation Easement (USFWS)	3700	State Cultural Resources Department
1400	US Forest Service	3800	State Department of Transportation
1412	Wilderness Area (USFS)	3801	State DOT Mitigation Site
1500	Department of Defense or Department of Energy	3900	Other State Land
1550	Army Corps of Engineers(DoD)	4000	Regional Government
1561	Tennessee Valley Authority	4100	Regional Government Lands
1600	National Park Service	5100	City Government
1602	National Battlefield Park (NPS)	5101	City Park
1606	National Historic Site (NPS)	5102	City Watershed Protection
1608	National Memorial (NPS)	5200	County Government
1609	National Military Park (NPS)	5201	County Park
1611	National Park (NPS)	5202	County Watershed Protection
1616	National Seashore (NPS)	6000	Non-Governmental Organization
1617	Wilderness Area (NPS)	6100	Ecological Preserve (Audubon)
1618	National Scenic By-way (NPS)	6200	Ecological Preserve/ Easement (Land Trust)
3000	State - Other	6300	The Nature Conservancy
3100	State Parks and Recreation	6301	Conservation Easement (The Nature Conservancy)
3110	State Park	6302	Ecological Preserver (The Nature Conservancy)
3120	State Natural Area or Natural Preserve	6400	NC Botanical Garden Foundation
3130	State Lake	6500	NC Herpetological Society
3140	State Recreation Area	6600	Archeological Society
3200	State University	6700	Non-governmental Organization - Other
3210	State University Research and Demonstration Area	7000	Private
3220	State University Natural Area/ Preserve	7100	Private - Conservation Easement
3300	State Wildlife Resources Commission	7200	Private - Managed for Biodiversity
3320	State Habitat Conservation Area	7400	Private – Mitigation Bank
3330	State Game Land (NCWRC)		
3340	State Hatchery (NCWRC)		

Appendix AA. Areal extent and percentage of the NC-GAP land cover types by land manager and GAP status. Detailed descriptions for each type can be found in the Appendix A and a complete description of how they were mapped and the accuracy assessment can be found in Chapter 2 of this report.

Map Unit Name: Ocean Beaches

Map Unit: 378

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	155.9	3	0.0	0	0.0	0
Status 2	260.0	5	0.0	0	359.3	7	0.0	0	41.4	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	815.7	15	318.2	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	260.0	5	0.0	0	1,175.0	22	318.2	6	197.3	4	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	131.5	2	0.0	0	6.8	< 1	0.0	0	0.0	0	294.1	5
Status 2	0.0	0	0.0	0	0.0	0	2.0	< 1	0.0	0	0.0	0	662.7	12
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,133.9	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,324.2	61	3,324.2	61
Total	0.0	0	131.5	2	0.0	0	8.7	< 1	0.0	0	3,324.2	61	5,414.9	100

Map Unit Name: Tidal Marsh

Map Unit: 3

Lamda: 97

Theta: 70

N: 173

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	0.0	0	0.0	0	0.0	0	923.7	1	3.3	< 1	431.7	< 1
Status 2	13,595.5	15	0.0	0	2,615.5	3	0.0	0	202.0	< 1	0.0	0	3,702.2	4
Status 3	0.0	0	154.8	< 1	1,772.3	2	6,069.6	7	0.0	0	0.5	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.0	< 1	0.0	0	0.0	0	0.0	0
Total	15,412.1	17	154.8	< 1	4,387.8	5	6,610.6	7	1,125.6	1	3.9	< 1	4,134.0	5

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,026.1	1	0.0	0	886.1	< 1	0.0	0	0.0	0	5,087.5	6
Status 2	0.0	0	140.4	< 1	1.8	< 1	453.6	< 1	0.0	0	0.2	< 1	20,711.2	23
Status 3	0.0	0	0.0	0	0.0	0	597.2	< 1	34.3	< 1	0.0	0	8,628.8	9
Status 4	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	56,893.2	62	57,435.1	63
Total	0.0	0	1,166.5	1	2.7	< 1	1,936.9	2	34.3	< 1	56,893.4	62	91,862.6	100

Map Unit Name: Maritime Scrubs and Tidal Shrubland

Map Unit: 124

Lamda: 75

Theta: 81

N: 8

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	68.0	2	0.0	0	0.7	< 1
Status 2	194.3	4	0.0	0	763.0	17	0.0	0	56.5	1	0.0	0	0.5	< 1
Status 3	0.0	0	0.0	0	950.9	21	150.8	3	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.4	< 1	0.0	0	0.0	0	0.0	0
Total	194.3	4	0.0	0	1,714.0	39	151.2	3	124.6	3	0.0	0	1.3	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	253.0	6	0.0	0	14.3	< 1	0.0	0	0.0	0	336.1	8
Status 2	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0	0.0	0	1,016.7	23
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,101.8	25
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,981.2	45	1,981.5	45
Total	0.0	0	253.0	6	0.0	0	16.7	< 1	0.0	0	1,981.2	45	4,436.1	100

Map Unit Name: Hypersaline Coastal Salt Flats

Map Unit: 375

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	28.4	61	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	28.4	61	0.0	0	0.0	0	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	28.4	61
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	17.9	39	17.9	39
Total	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	17.9	39	46.4	100

Map Unit Name: Interdune Herbaceous Wetlands

Map Unit: 372

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.4	< 1	0.0	0	0.0	0
Status 2	6.1	1	0.0	0	264.4	46	0.0	0	5.0	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	113.4	20	24.5	4	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	6.1	1	0.0	0	377.8	66	24.5	4	5.4	< 1	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.3	< 1	0.0	0	1.5	< 1	0.0	0	0.0	0	2.2	< 1
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	275.6	48
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	137.9	24
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	159.8	28	159.8	28
Total	0.0	0	0.3	< 1	0.0	0	1.5	< 1	0.0	0	159.8	28	575.4	100

Map Unit Name: Maritime Grasslands

Map Unit: 371

Lamda: 100

Theta: 65

N: 12

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	122.0	1	0.0	0	0.0	0
Status 2	340.7	3	0.0	0	1,512.9	14	0.0	0	348.3	3	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	2,123.4	20	96.8	< 1	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.9	< 1	0.0	0	0.0	0	0.0	0
Total	340.7	3	0.0	0	3,636.3	34	120.6	1	470.3	4	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	279.2	3	0.0	0	44.7	< 1	0.0	0	0.0	0	446.0	4
Status 2	0.0	0	4.5	< 1	0.0	0	2.8	< 1	0.0	0	0.0	0	2,209.2	21
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,220.1	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	5,690.0	54	5,713.8	54
Total	0.0	0	283.7	3	0.0	0	47.5	< 1	0.0	0	5,690.0	54	10,589.1	100

Map Unit Name: Tidal Swamp Forest

Map Unit: 75

Lamda: 95

Theta: 62

N: 82

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	901.4	2	208.4	<1	154.2	<1
Status 2	4,020.4	11	0.0	0	0.0	0	0.0	0	54.5	<1	0.0	0	1,717.7	5
Status 3	0.0	0	223.0	<1	1.2	<1	724.1	2	0.0	0	324.8	<1	0.4	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	4,020.4	11	223.0	<1	1.2	<1	724.1	2	955.9	3	533.3	1	1,872.2	5

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	293.4	<1	0.0	0	101.6	<1	0.0	0	0.0	0	1,659.1	4
Status 2	0.0	0	0.0	0	3.8	<1	469.4	1	0.0	0	68.2	<1	6,333.9	17
Status 3	0.8	<1	0.0	0	0.0	0	1,576.1	4	<0.1	<1	0.0	0	2,850.4	8
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	26,084.7	71	26,084.7	71
Total	0.8	<1	293.4	<1	3.8	<1	2,147.1	6	<0.1	<1	26,152.9	71	36,928.1	100

Map Unit Name: Maritime Pinelands

Map Unit: 121

Lamda: 80

Theta: 78

N: 18

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	<0.1	<1	0.0	0	0.0	0	0.0	0	23.8	<1	3.8	<1	1.4	<1
Status 2	6,462.2	20	0.0	0	0.0	0	0.0	0	29.4	<1	0.0	0	1,516.0	5
Status 3	0.0	0	0.0	0	37.3	<1	1,098.0	3	0.0	0	8.7	<1	0.9	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	6,462.3	20	0.0	0	37.3	<1	1,098.0	3	53.2	<1	12.5	<1	1,518.3	5

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	209.3	<1	0.0	0	7.4	<1	0.0	0	0.0	0	245.7	<1
Status 2	0.0	0	0.0	0	0.6	<1	119.3	<1	0.0	0	3.0	<1	8,130.4	25
Status 3	0.0	0	0.0	0	0.0	0	20.6	<1	23.1	<1	0.0	0	1,188.6	4
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	17.7	<1	22,690.1	70	22,707.8	70
Total	0.0	0	209.3	<1	0.6	<1	147.2	<1	40.9	<1	22,693.1	70	32,272.6	100

Map Unit Name: Maritime Forests and Hammocks

Map Unit: 17

Lamda: 78

Theta: 15

N: 89

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.1	<1	18.6	<1	0.0	0	0.0	0	87.4	<1	0.0	0	0.0	0
Status 2	554.5	4	0.0	0	191.5	2	0.0	0	121.8	<1	0.0	0	59.9	<1
Status 3	0.0	0	221.0	2	787.9	6	1,575.5	13	0.0	0	3.3	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	8.1	<1	0.0	0	0.0	0	0.0	0
Total	557.6	4	239.6	2	979.4	8	1,583.6	13	209.2	2	3.3	<1	59.9	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	538.1	4	0.0	0	40.2	<1	0.0	0	0.0	0	687.4	5
Status 2	0.0	0	2.1	<1	0.0	0	79.6	<1	0.0	0	0.0	0	1,009.4	8
Status 3	0.2	<1	0.0	0	0.0	0	<0.1	<1	<0.1	<1	0.0	0	2,588.0	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	8,255.4	66	8,263.5	66
Total	0.2	<1	540.2	4	0.0	0	119.9	<1	<0.1	<1	8,255.4	66	12,548.3	100

Map Unit Name: Interdune Wooded Depression Swamp

Map Unit: 126

Lamda: 100

Theta: <1

N: 10

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	3.4	5	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.6	<1
Status 3	0.0	0	0.0	0	1.4	2	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	3.4	5	0.0	0	1.4	2	0.0	0	0.0	0	0.0	0	0.6	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2.0	3	0.0	0	3.3	5	0.0	0	0.0	0	5.3	8
Status 2	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	0.0	0	4.1	6
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.4	2
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	58.8	84	58.8	84
Total	0.0	0	2.0	3	0.0	0	3.4	5	0.0	0	58.8	84	69.7	100

Map Unit Name: Coastal Plain Fresh Water Emergent

Map Unit: 380

Lamda: 50

Theta: 9

N: 9

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.9	<1	0.0	0	0.0	0	11.0	<1	2.6	<1	5.3	<1
Status 2	4,501.1	25	0.0	0	0.8	<1	0.0	0	32.5	<1	0.0	0	411.3	2
Status 3	0.0	0	123.4	<1	42.4	<1	2,506.5	14	0.5	<1	140.8	<1	64.6	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	5.7	<1
Total	4,501.1	25	133.3	<1	43.2	<1	2,506.5	14	43.9	<1	143.4	<1	486.9	3

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	21.2	<1	0.0	0	10.9	<1	0.0	0	0.0	0	60.8	<1
Status 2	0.0	0	0.2	<1	0.5	<1	19.8	<1	0.0	0	0.5	<1	4,966.7	27
Status 3	6.4	<1	0.0	0	0.6	<1	22.3	<1	27.4	<1	0.0	0	2,934.8	16
Status 4	0.0	0	0.0	0	2.8	<1	6.8	<1	0.2	<1	10,266.4	56	10,281.9	56
Total	6.4	<1	21.3	<1	4.0	<1	59.9	<1	27.5	<1	10,266.8	56	18,244.2	100

Map Unit Name: Coastal Plain Riverbank Shrubs

Map Unit: 173

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	14.9	<1	0.0	0	0.0	0
Status 2	9.9	<1	0.0	0	0.0	0	0.0	0	9.1	<1	0.0	0	0.4	<1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	9.9	<1	0.0	0	0.0	0	0.0	0	24.0	1	0.0	0	0.4	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	14.9	<1
Status 2	0.0	0	0.0	0	0.0	0	0.5	<1	0.0	0	0.0	0	19.8	1
Status 3	0.0	0	0.0	0	3.5	<1	0.0	0	0.0	0	0.0	0	3.5	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,732.7	98	1,732.7	98
Total	0.0	0	0.0	0	3.5	<1	0.5	<1	0.0	0	1,732.7	98	1,770.9	100

Map Unit Name: Coastal Plain Mixed Bottomland Forest

Map Unit: 50

Lamda: 83

Theta: 50

N: 209

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8.0	<1	0.0	0	0.0	0	154.9	<1	13.5	<1	144.6	<1
Status 2	2,566.3	2	0.0	0	0.0	0	0.0	0	245.8	<1	465.5	<1	1,028.0	<1
Status 3	0.0	0	383.5	<1	2.3	<1	2,422.4	2	5.4	<1	113.1	<1	18.7	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	19.1	<1
Total	2,566.3	2	391.5	<1	2.3	<1	2,422.4	2	406.1	<1	592.1	<1	1,210.4	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	201.9	<1	0.0	0	143.6	<1	10.4	<1	0.0	0	677.0	<1
Status 2	0.0	0	0.0	0	6.4	<1	358.2	<1	0.0	0	29.6	<1	4,699.7	4
Status 3	474.4	<1	0.0	0	6.1	<1	446.0	<1	<0.1	<1	0.0	0	3,872.1	3
Status 4	0.0	0	0.0	0	0.0	0	13.7	<1	30.0	<1	120,476.2	93	120,538.9	93
Total	474.4	<1	201.9	<1	12.5	<1	961.5	<1	40.5	<1	120,505.8	93	129,787.7	100

Map Unit Name: Coastal Plain Oak Bottomland Forest

Map Unit: 49

Lamda: 78

Theta: 67

N: 262

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	16.6	<1	0.0	0	0.0	0	223.7	<1	1.5	<1	225.7	<1
Status 2	2,350.8	1	0.0	0	0.0	0	0.0	0	699.4	<1	73.8	<1	1,972.9	<1
Status 3	0.0	0	886.2	<1	0.0	0	1,958.6	<1	14.0	<1	511.6	<1	247.0	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	65.1	<1
Total	2,350.8	1	902.8	<1	0.0	0	1,958.6	<1	937.0	<1	586.9	<1	2,510.6	1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	101.2	<1	0.0	0	77.3	<1	15.1	<1	0.0	0	661.1	<1
Status 2	0.0	0	5.0	<1	5.3	<1	273.0	<1	0.0	0	2.3	<1	5,382.5	3
Status 3	727.3	<1	0.0	0	8.6	<1	192.7	<1	<0.1	<1	0.0	0	4,546.0	2
Status 4	0.0	0	0.0	0	9.0	<1	0.0	0	209.3	<1	199,229.9	95	199,513.3	95
Total	727.3	<1	106.1	<1	23.0	<1	543.0	<1	224.6	<1	199,232.2	95	210,102.8	100

Map Unit Name: Coastal Plain Nonriverine Wet Floodplain Forest Map Unit: 158 Lamda: 82 Theta: 67 N: 251

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	<1	186.5	<1	0.0	0	0.0	0	4,516.0	2	354.8	<1	1,511.2	<1
Status 2	28,514.9	13	0.0	0	0.0	0	0.0	0	318.2	<1	80.0	<1	5,202.2	2
Status 3	0.0	0	4,436.2	2	3.7	<1	8,207.7	4	0.0	0	2,837.2	1	8.2	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	28,516.2	13	4,622.7	2	3.7	<1	8,207.7	4	4,834.3	2	3,272.0	2	6,721.6	3

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,799.4	2	0.0	0	246.5	<1	0.8	<1	0.0	0	10,616.5	5
Status 2	0.0	0	0.0	0	16.6	<1	1,631.6	<1	0.0	0	171.0	<1	35,934.5	17
Status 3	294.0	<1	0.0	0	0.0	0	311.0	<1	1.1	<1	0.0	0	16,099.0	8
Status 4	0.0	0	0.0	0	9.4	<1	0.0	0	52.3	<1	149,575.4	70	149,637.1	70
Total	294.0	<1	3,799.4	2	25.9	<1	2,189.1	1	54.2	<1	149,746.4	71	212,287.1	100

Map Unit Name: Peatland Atlantic White-Cedar Forest Map Unit: 41 Lamda: 79 Theta: 86 N: 22

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.3	<1	9.0	<1	0.0	0	0.0	0	285.6	1	87.9	<1	19.3	<1
Status 2	10,408.4	37	0.0	0	0.0	0	0.0	0	111.7	<1	29.1	<1	1,086.9	4
Status 3	0.0	0	71.6	<1	313.5	1	1,497.9	5	0.0	0	50.1	<1	50.4	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4.1	<1
Total	10,408.7	37	80.6	<1	313.5	1	1,497.9	5	397.3	1	167.1	<1	1,160.6	4

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	935.7	3	0.0	0	15.5	<1	5.9	<1	0.0	0	1,359.2	5
Status 2	0.0	0	0.0	0	4.5	<1	144.5	<1	0.0	0	6.6	<1	11,791.6	42
Status 3	13.1	<1	0.0	0	0.0	0	25.6	<1	2.0	<1	0.0	0	2,024.1	7
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.2	<1	12,919.4	46	12,923.6	46
Total	13.1	<1	935.7	3	4.5	<1	185.5	<1	8.1	<1	12,926.0	46	28,098.5	100

Map Unit Name: Seepage and Streamhead Swamps

Map Unit: 15

Lamda: 71

Theta: 75

N: 43

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	35.3	<1	0.0	0	0.0	0	1,893.2	4	8.8	<1	541.9	1
Status 2	4,128.0	8	0.0	0	0.0	0	0.0	0	726.8	1	13.0	<1	1,080.4	2
Status 3	0.0	0	188.9	<1	0.0	0	799.2	2	0.0	0	120.0	<1	2.4	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	6.8	<1
Total	4,128.0	8	224.2	<1	0.0	0	799.2	2	2,620.0	5	141.8	<1	1,631.5	3

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	258.0	<1	0.0	0	36.7	<1	0.0	0	0.0	0	2,773.9	5
Status 2	0.0	0	0.0	0	0.5	<1	30.5	<1	0.0	0	0.0	0	5,979.2	11
Status 3	566.2	1	0.0	0	0.0	0	122.8	<1	0.0	0	0.0	0	1,799.5	3
Status 4	0.0	0	0.0	0	0.0	0	<0.1	<1	0.4	<1	41,729.4	80	41,736.7	80
Total	566.2	1	258.0	<1	0.5	<1	190.1	<1	0.4	<1	41,729.4	80	52,289.3	100

Map Unit Name: Cypress-Gum Floodplain Forests

Map Unit: 30

Lamda: 69

Theta: 83

N: 214

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	51.7	<1	0.0	0	0.0	0	1,216.8	<1	111.6	<1	3,532.4	2
Status 2	7,080.0	3	0.0	0	0.0	0	0.0	0	943.1	<1	134.9	<1	3,602.4	2
Status 3	0.0	0	753.1	<1	0.0	0	2,179.6	1	2.1	<1	242.7	<1	474.9	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	37.6	<1
Total	7,080.0	3	804.8	<1	0.0	0	2,179.6	1	2,162.0	<1	489.2	<1	7,647.4	4

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	461.1	<1	0.0	0	768.8	<1	9.9	<1	0.0	0	6,152.2	3
Status 2	0.0	0	0.0	0	4.5	<1	282.2	<1	0.0	0	8.6	<1	12,055.9	6
Status 3	464.6	<1	0.0	0	3.4	<1	6,402.5	3	2.5	<1	0.0	0	10,525.5	5
Status 4	0.0	0	0.0	0	0.3	<1	8.8	<1	7.3	<1	188,914.1	87	188,968.1	87
Total	464.6	<1	461.1	<1	8.2	<1	7,462.4	3	19.7	<1	188,922.7	87	217,701.6	100

Map Unit Name: Pond-Cypress - Gum Swamps, Savannah

Map Unit: 78

Lamda: 96

Theta: 2

N: 37

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	2.0	<1	0.0	0	0.0	0	0.0	0	0.4	<1	0.0	0	1.4	<1
Status 3	0.0	0	11.6	1	0.0	0	70.0	7	0.0	0	<0.1	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.9	<1	0.0	0	0.0	0	0.2	<1
Total	2.0	<1	11.6	1	0.0	0	70.9	7	0.4	<1	<0.1	<1	1.5	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	50.8	5	0.0	0	0.0	0	50.8	5
Status 2	0.0	0	1.5	<1	0.0	0	1.3	<1	0.0	0	0.0	0	6.5	<1
Status 3	0.0	0	0.0	0	0.0	0	3.2	<1	0.0	0	0.0	0	84.9	8
Status 4	0.0	0	0.0	0	1.4	<1	0.0	0	0.0	0	900.1	86	902.6	86
Total	0.0	0	1.5	<1	1.4	<1	55.2	5	0.0	0	900.1	86	1,044.7	100

Map Unit Name: Oak Bottomland Forest and Swamp

Map Unit: 385

Lamda: 42

Theta: 44

N: 37

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	19.8	<1	0.0	0	0.0	0	38.6	<1	0.0	0	0.7	<1
Status 2	33.5	<1	0.0	0	0.0	0	0.0	0	156.0	<1	8.0	<1	241.6	<1
Status 3	0.0	0	209.8	<1	2.5	<1	311.9	<1	0.0	0	5.3	<1	100.4	<1
Status 4	0.0	0	0.0	0	0.0	0	34.5	<1	0.8	<1	0.0	0	0.0	0
Total	33.5	<1	229.6	<1	2.5	<1	346.4	<1	195.4	<1	13.3	<1	342.7	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.5	<1	22.1	<1	0.0	0	0.0	0	81.7	<1
Status 2	0.0	0	0.0	0	43.4	<1	13.5	<1	0.0	0	0.0	0	495.9	<1
Status 3	6.0	<1	0.0	0	23.4	<1	27.4	<1	14.5	<1	0.0	0	701.3	<1
Status 4	0.0	0	0.0	0	0.0	0	4.9	<1	16.0	<1	81,124.1	98	81,180.3	98
Total	6.0	<1	0.0	0	67.3	<1	67.8	<1	30.5	<1	81,124.1	98	82,459.2	100

Map Unit Name: Coastal Plain Mesic Hardwood Forest

Map Unit: 63

Lamda: 72

Theta: 23

N: 112

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.7	<1	0.0	0	0.0	0	5.1	<1	0.0	0	11.1	<1
Status 2	105.3	<1	0.0	0	0.0	0	0.0	0	61.3	<1	0.0	0	48.5	<1
Status 3	0.0	0	374.6	<1	0.8	<1	1,874.9	4	0.0	0	17.6	<1	0.2	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	105.3	<1	375.3	<1	0.8	<1	1,874.9	4	66.4	<1	17.6	<1	59.8	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.9	<1	0.0	0	77.5	<1	0.0	0	0.0	0	95.3	<1
Status 2	0.0	0	0.0	0	9.7	<1	16.4	<1	0.0	0	0.0	0	241.2	<1
Status 3	0.0	0	0.0	0	0.0	0	38.5	<1	0.8	<1	0.0	0	2,307.3	5
Status 4	0.0	0	0.0	0	0.6	<1	0.0	0	24.3	<1	47,226.5	95	47,251.4	95
Total	0.0	0	0.9	<1	10.4	<1	132.4	<1	25.1	<1	47,226.5	95	49,895.3	100

Map Unit Name: Coastal Plain Dry to Dry-Mesic Oak Forest

Map Unit: 138

Lamda: 19

Theta: 44

N: 29

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	32.4	<1	0.0	0	199.2	<1
Status 2	289.6	<1	0.0	0	0.0	0	0.0	0	429.4	<1	127.4	<1	120.5	<1
Status 3	0.0	0	23.9	<1	0.8	<1	107.9	<1	5.1	<1	10.1	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	10.5	<1
Total	289.6	<1	23.9	<1	0.8	<1	107.9	<1	466.9	<1	137.5	<1	330.2	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	23.9	<1	0.0	0	21.6	<1	0.0	0	0.0	0	277.1	<1
Status 2	0.0	0	0.0	0	0.2	<1	31.9	<1	0.0	0	0.3	<1	999.3	<1
Status 3	3.0	<1	0.0	0	0.3	<1	113.2	<1	2.0	<1	0.0	0	266.2	<1
Status 4	0.0	0	0.0	0	0.3	<1	0.0	0	0.7	<1	136,479.0	99	136,490.5	99
Total	3.0	<1	23.9	<1	0.7	<1	166.7	<1	2.7	<1	136,479.2	99	138,033.1	100

Map Unit Name: Pocosin Woodlands and Shrublands

Map Unit: 87

Lamda: 73

Theta: 93

N: 255

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	11,639.3	3	0.0	0	0.0	0	1,100.7	<1	117.9	<1	49.1	<1
Status 2	43,414.0	9	0.0	0	0.0	0	0.0	0	710.6	<1	0.0	0	33,249.5	7
Status 3	0.0	0	25,139.7	5	68.4	<1	24,368.6	5	0.0	0	15,269.2	3	1,701.4	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	63.2	<1
Total	43,414.0	9	36,779.0	8	68.4	<1	24,368.6	5	1,811.3	<1	15,387.1	3	35,063.2	8

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,458.3	<1	0.0	0	5,101.2	1	14.1	<1	0.0	0	19,480.7	4
Status 2	0.0	0	7.5	<1	3.2	<1	743.1	<1	0.0	0	16.5	<1	78,144.3	17
Status 3	4,354.8	<1	0.0	0	2.0	<1	279.7	<1	21.5	<1	0.0	0	71,205.3	15
Status 4	0.0	0	0.0	0	11.1	<1	15.4	<1	16.6	<1	294,586.7	64	294,692.9	64
Total	4,354.8	<1	1,465.7	<1	16.2	<1	6,139.4	1	52.2	<1	294,603.2	64	463,523.2	100

Map Unit Name: Wet Longleaf or Slash Pine Savanah

Map Unit: 67

Lamda: 55

Theta: 60

N: 72

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	58.3	<1	0.0	0	0.0	0	0.7	<1	0.0	0	0.5	<1
Status 2	196.7	<1	0.0	0	0.0	0	0.0	0	11.0	<1	0.0	0	1,073.7	2
Status 3	0.0	0	2,861.4	6	0.0	0	8,173.7	17	0.0	0	1,028.8	2	349.2	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	10.4	<1
Total	196.7	<1	2,919.7	6	0.0	0	8,173.7	17	11.7	<1	1,028.8	2	1,433.9	3

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	24.5	<1	0.0	0	7.4	<1	13.7	<1	0.0	0	105.1	<1
Status 2	0.0	0	5.7	<1	8.8	<1	76.7	<1	0.0	0	0.0	0	1,372.5	3
Status 3	0.0	0	0.0	0	0.0	0	18.5	<1	<0.1	<1	0.0	0	12,431.6	26
Status 4	0.0	0	0.0	0	0.8	<1	0.2	<1	0.9	<1	33,303.3	71	33,315.7	71
Total	0.0	0	30.2	<1	9.6	<1	102.7	<1	14.7	<1	33,303.3	71	47,224.9	100

Map Unit Name: Mesic Longleaf Pine

Map Unit: 97

Lamda: 84

Theta: 45

N: 272

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	69.3	<1	0.0	0	0.0	0	104.8	<1	0.0	0	0.0	0
Status 2	49.6	<1	0.0	0	0.0	0	0.0	0	78.8	<1	3.6	<1	585.6	<1
Status 3	0.0	0	1,940.6	2	5.4	<1	11,220.1	11	0.0	0	360.2	<1	2,310.2	2
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	147.7	<1
Total	49.6	<1	2,009.9	2	5.4	<1	11,220.1	11	183.6	<1	363.8	<1	3,043.5	3

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	89.3	<1	51.3	<1	0.0	0	314.6	<1
Status 2	0.0	0	0.0	0	14.1	<1	25.6	<1	0.0	0	0.0	0	757.4	<1
Status 3	1,116.4	1	0.0	0	4.8	<1	93.5	<1	0.0	0	0.0	0	17,051.1	17
Status 4	0.0	0	0.0	0	0.5	<1	0.8	<1	0.0	0	82,414.9	82	82,563.8	82
Total	1,116.4	1	0.0	0	19.4	<1	209.2	<1	51.3	<1	82,414.9	82	100,687.0	100

Map Unit Name: Xeric Longleaf Pine

Map Unit: 42

Lamda: 81

Theta: 75

N: 317

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7.7	<1	0.0	0	0.0	0	338.2	<1	0.0	0	1.2	<1
Status 2	194.8	<1	0.0	0	0.0	0	0.0	0	279.3	<1	20.2	<1	410.0	<1
Status 3	0.0	0	738.6	<1	8.4	<1	40,714.7	15	0.0	0	6.7	<1	14,732.9	5
Status 4	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	0.0	0	389.4	<1
Total	194.8	<1	746.4	<1	8.4	<1	40,714.7	15	617.5	<1	26.8	<1	15,533.6	6

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	186.8	<1	0.0	0	0.0	0	534.0	<1
Status 2	0.0	0	0.0	0	9.3	<1	80.8	<1	0.0	0	0.0	0	994.3	<1
Status 3	1,827.5	<1	0.0	0	144.9	<1	385.0	<1	0.0	0	0.0	0	58,558.6	21
Status 4	0.0	0	0.0	0	5.9	<1	4.2	<1	0.0	0	220,059.9	78	220,459.5	79
Total	1,827.5	<1	0.0	0	160.0	<1	656.9	<1	0.0	0	220,059.9	78	280,546.4	100

Map Unit Name: Coastal Plain Xeric Oak - Pine Forests

Map Unit: 46

Lamda: 100 Theta: 100 N: 1

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	0.0	0	0.2	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	2.3	1	215.3	99	217.6	100
Total	0.0	0	0.0	0	0.0	0	0.2	< 1	2.3	1	215.3	99	217.8	100

Map Unit Name: Xeric Pine-Hardwood Woodlands and Forest

Map Unit: 232

Lamda: 92 Theta: 10 N: 944

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	42.7	< 1	0.0	0	0.0	0	518.9	< 1	0.0	0	1.2	< 1
Status 2	59.7	< 1	0.0	0	0.0	0	0.0	0	607.9	< 1	3.3	< 1	1,029.8	< 1
Status 3	0.0	0	1,048.2	< 1	1.5	< 1	221.0	< 1	0.0	0	45.5	< 1	210.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	0.0	0
Total	59.7	< 1	1,090.9	1	1.5	< 1	224.2	< 1	1,126.8	1	48.8	< 1	1,241.5	1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.2	< 1	15.8	< 1	0.0	0	0.0	0	578.7	< 1
Status 2	0.0	0	0.0	0	56.7	< 1	10.9	< 1	0.0	0	0.0	0	1,768.2	2
Status 3	20.4	< 1	0.0	0	49.8	< 1	33.2	< 1	36.1	< 1	0.0	0	1,666.2	2
Status 4	0.0	0	0.0	0	0.0	0	3.6	< 1	16.7	< 1	103,068.9	96	103,092.5	96
Total	20.4	< 1	0.0	0	106.7	< 1	63.5	< 1	52.8	< 1	103,068.9	96	107,105.6	100

Map Unit Name: Piedmont/Mountain Submerged Aquatic

Map Unit: 238

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	1.0	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	78.0	3	0.0	0	96.3	3
Status 3	0.0	0	9.0	< 1	0.0	0	254.3	8	0.0	0	6.4	< 1	21.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	64.8	2	0.0	0	0.0	0	0.0	0
Total	0.0	0	9.0	< 1	0.0	0	319.1	11	79.0	3	6.4	< 1	118.1	4

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	1.9	< 1	0.0	0	0.0	0	0.0	0	2.9	< 1
Status 2	0.0	0	0.0	0	0.9	< 1	0.2	< 1	0.0	0	0.0	0	175.4	6
Status 3	0.5	< 1	0.0	0	9.8	< 1	0.5	< 1	7.7	< 1	0.0	0	309.9	10
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,450.9	82	2,515.7	84
Total	0.5	< 1	0.0	0	12.6	< 1	0.6	< 1	7.7	< 1	2,450.9	82	3,003.8	100

Map Unit Name: Piedmont/Mountain Emergent Vegetation

Map Unit: 239

Lamda: 0

Theta: 0

N: 5

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	6.7	< 1	0.0	0	6.2	< 1	0.0	0	8.2	< 1	0.0	0	19.4	1
Status 3	0.0	0	12.9	< 1	0.0	0	12.7	< 1	0.0	0	0.8	< 1	39.7	3
Status 4	0.0	0	0.0	0	0.0	0	242.9	16	0.0	0	0.0	0	0.0	0
Total	6.7	< 1	12.9	< 1	6.2	< 1	255.6	17	8.2	< 1	0.8	< 1	59.1	4

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	< 0.1	< 1
Status 2	0.0	0	0.0	0	1.2	< 1	1.1	< 1	0.0	0	0.0	0	42.8	3
Status 3	< 0.1	< 1	0.0	0	9.1	< 1	0.0	0	0.2	< 1	0.0	0	75.4	5
Status 4	0.0	0	0.0	0	0.0	0	0.2	< 1	< 0.1	< 1	1,152.7	76	1,395.9	92
Total	< 0.1	< 1	0.0	0	10.3	< 1	1.3	< 1	0.4	< 1	1,152.7	76	1,514.2	100

Map Unit Name: Riverbank Shrublands

Map Unit: 267

Lamda: 0

Theta: 0

N: 1

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	2.1	<1	0.0	0	0.2	<1	0.0	0	0.5	<1
Status 2	13.9	<1	0.0	0	7.5	<1	0.0	0	24.4	<1	0.0	0	39.6	<1
Status 3	0.0	0	45.9	<1	0.0	0	13.4	<1	0.0	0	1.0	<1	77.0	1
Status 4	0.0	0	0.0	0	0.0	0	68.0	1	0.0	0	0.0	0	0.0	0
Total	13.9	<1	45.9	<1	9.5	<1	81.5	1	24.6	<1	1.0	<1	117.1	2

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.7	<1
Status 2	0.4	<1	0.0	0	12.1	<1	0.4	<1	0.0	0	0.0	0	98.1	2
Status 3	1.4	<1	0.0	0	17.5	<1	2.9	<1	0.0	0	0.0	0	159.1	3
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	5,411.3	94	5,479.3	95
Total	1.8	<1	0.0	0	29.5	<1	3.2	<1	0.0	0	5,411.3	94	5,739.2	100

Map Unit Name: Floodplain Wet Shrublands

Map Unit: 269

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.4	<1	0.0	0	2.2	<1
Status 2	14.7	<1	0.0	0	0.0	0	0.0	0	12.4	<1	0.0	0	85.8	2
Status 3	0.0	0	3.3	<1	0.0	0	43.6	<1	0.0	0	3.2	<1	160.5	3
Status 4	0.0	0	0.0	0	0.0	0	993.6	19	0.0	0	0.0	0	0.0	0
Total	14.7	<1	3.3	<1	0.0	0	1,037.2	19	12.8	<1	3.2	<1	248.4	5

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	2.3	<1	3.5	<1	0.0	0	0.0	0	8.4	<1
Status 2	0.0	0	0.0	0	18.5	<1	4.5	<1	0.0	0	0.0	0	135.8	3
Status 3	0.0	0	0.0	0	26.2	<1	0.0	0	0.0	0	0.0	0	236.7	4
Status 4	0.0	0	0.0	0	0.0	0	0.2	<1	0.3	<1	3,984.3	74	4,978.4	93
Total	0.0	0	0.0	0	47.0	<1	8.2	<1	0.3	<1	3,984.3	74	5,359.2	100

Map Unit Name: Piedmont Mesic Forest

Map Unit: 230

Lamda: 27

Theta: 80

N: 63

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	275.9	<1	0.0	0	0.0	0	456.7	<1	0.0	0	6.9	<1
Status 2	172.4	<1	0.0	0	0.0	0	0.0	0	1,180.8	<1	53.7	<1	1,397.3	<1
Status 3	0.0	0	1,814.2	<1	7.8	<1	560.9	<1	0.0	0	75.7	<1	598.7	<1
Status 4	0.0	0	0.0	0	0.0	0	103.8	<1	5.6	<1	0.0	0	0.0	0
Total	172.4	<1	2,090.2	<1	7.8	<1	664.7	<1	1,643.0	<1	129.4	<1	2,002.9	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	1.7	<1	125.3	<1	0.0	0	0.0	0	866.5	<1
Status 2	0.0	0	0.0	0	181.6	<1	60.3	<1	0.0	0	0.0	0	3,046.1	<1
Status 3	29.5	<1	0.0	0	139.8	<1	123.8	<1	115.4	<1	0.0	0	3,465.7	1
Status 4	0.0	0	0.0	0	0.0	0	27.4	<1	72.8	<1	322,088.7	98	322,298.2	98
Total	29.5	<1	0.0	0	323.1	<1	336.7	<1	188.2	<1	322,088.7	98	329,676.5	100

Map Unit Name: Piedmont/Mountain Mixed Bottomland Forest

Map Unit: 384

Lamda: 32

Theta: 17

N: 71

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	30.0	<1	29.8	<1	0.0	0	168.5	<1	0.0	0	7.2	<1
Status 2	964.0	1	0.0	0	62.7	<1	0.0	0	156.2	<1	2.4	<1	2,644.7	3
Status 3	0.0	0	655.4	<1	1.1	<1	609.6	<1	0.0	0	27.9	<1	1,345.1	2
Status 4	0.0	0	0.0	0	0.0	0	330.5	<1	7.3	<1	0.0	0	0.0	0
Total	964.0	1	685.4	<1	93.6	<1	940.1	1	331.9	<1	30.3	<1	3,997.0	5

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	<0.1	<1	38.6	<1	0.0	0	0.0	0	274.1	<1
Status 2	12.4	<1	0.0	0	195.4	<1	44.4	<1	0.0	0	0.0	0	4,082.1	5
Status 3	47.0	<1	0.0	0	116.6	<1	36.5	<1	20.2	<1	0.0	0	2,859.3	4
Status 4	0.0	0	0.0	0	0.0	0	4.4	<1	16.1	<1	69,025.8	90	69,384.1	91
Total	59.4	<1	0.0	0	312.0	<1	123.9	<1	36.3	<1	69,025.8	90	76,599.6	100

Map Unit Name: Piedmont Mixed Successional Forest

Map Unit: 383

Lamda: 77

Theta: 20

N: 685

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5.0	<1	0.0	0	0.0	0	2.7	<1	0.0	0	146.9	<1
Status 2	98.0	<1	0.0	0	0.0	0	0.0	0	63.8	<1	29.9	<1	440.9	<1
Status 3	0.0	0	353.9	<1	<0.1	<1	405.5	<1	0.0	0	124.1	<1	34.2	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	19.0	<1
Total	98.0	<1	358.8	<1	<0.1	<1	405.5	<1	66.5	<1	154.0	<1	641.0	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	147.5	<1	0.0	0	0.0	0	302.0	<1
Status 2	0.0	0	0.0	0	0.7	<1	23.3	<1	0.0	0	0.0	0	656.6	<1
Status 3	305.1	<1	0.0	0	3.1	<1	66.2	<1	28.2	<1	0.0	0	1,320.3	<1
Status 4	0.0	0	0.0	0	0.5	<1	9.5	<1	1.4	<1	212,322.8	99	212,353.0	99
Total	305.1	<1	0.0	0	4.2	<1	246.5	<1	29.5	<1	212,322.8	99	214,632.0	100

Map Unit Name: Piedmont Dry-Mesic Oak and Hardwood Forest

Map Unit: 228

Lamda: 60

Theta: 73

N: 948

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,171.4	<1	394.1	<1	0.0	0	2,110.6	<1	0.0	0	31.3	<1
Status 2	352.2	<1	0.0	0	61.1	<1	0.0	0	3,971.1	<1	120.5	<1	5,245.3	<1
Status 3	0.0	0	8,490.4	<1	16.4	<1	1,510.6	<1	0.0	0	213.8	<1	1,601.6	<1
Status 4	0.0	0	0.0	0	0.0	0	175.1	<1	20.0	<1	0.0	0	0.0	0
Total	352.2	<1	9,661.9	<1	471.6	<1	1,685.7	<1	6,101.6	<1	334.4	<1	6,878.3	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	1.2	<1	321.0	<1	0.0	0	0.0	0	4,029.7	<1
Status 2	0.6	<1	0.0	0	455.2	<1	163.6	<1	0.0	0	0.0	0	10,369.6	1
Status 3	74.9	<1	0.0	0	362.3	<1	387.4	<1	320.0	<1	0.0	0	12,977.5	1
Status 4	0.0	0	0.0	0	0.0	0	79.9	<1	222.4	<1	953,565.3	97	954,062.7	97
Total	75.5	<1	0.0	0	818.7	<1	951.9	<1	542.4	<1	953,565.3	97	981,439.5	100

Map Unit Name: Piedmont Dry-Mesic Pine Forests

Map Unit: 222

Lamda: 0

Theta: 0

N: 0

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	63.0	<1	0.0	0	0.0	0	2,221.1	<1	0.0	0	10.4	<1
Status 2	512.8	<1	0.0	0	0.0	0	0.0	0	2,650.6	<1	58.1	<1	4,674.0	1
Status 3	0.0	0	2,124.7	<1	16.0	<1	1,313.3	<1	0.0	0	221.1	<1	1,291.4	<1
Status 4	0.0	0	0.0	0	0.0	0	98.6	<1	2.5	<1	0.0	0	0.0	0
Total	512.8	<1	2,187.7	<1	16.0	<1	1,411.9	<1	4,874.2	1	279.3	<1	5,975.7	1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	1.5	<1	77.6	<1	0.0	0	0.0	0	2,373.6	<1
Status 2	0.0	0	0.0	0	273.2	<1	63.5	<1	0.0	0	0.0	0	8,232.2	2
Status 3	228.6	<1	0.0	0	248.8	<1	104.8	<1	461.9	<1	0.0	0	6,010.6	2
Status 4	0.0	0	0.0	0	0.0	0	33.4	<1	50.6	<1	383,143.6	96	383,328.7	96
Total	228.6	<1	0.0	0	523.5	<1	279.2	<1	512.5	<1	383,143.6	96	399,945.1	100

Map Unit Name: Dry Mesic Oak Pine Forests

Map Unit: 382

Lamda: 23

Theta: 64

N: 148

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	200.8	<1	0.0	0	0.0	0	1,127.0	<1	0.0	0	8.1	<1
Status 2	872.5	<1	0.0	0	0.0	0	0.0	0	2,298.0	<1	48.0	<1	3,228.6	<1
Status 3	0.0	0	4,388.6	<1	13.7	<1	2,875.5	<1	5.1	<1	259.5	<1	1,364.6	<1
Status 4	0.0	0	0.0	0	0.0	0	42.8	<1	1.4	<1	0.0	0	38.3	<1
Total	872.5	<1	4,589.4	<1	13.7	<1	2,918.3	<1	3,431.5	<1	307.4	<1	4,639.5	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3.7	<1	2.9	<1	119.4	<1	0.0	0	0.0	0	1,461.9	<1
Status 2	0.0	0	0.0	0	274.5	<1	119.3	<1	0.0	0	0.5	<1	6,841.3	1
Status 3	165.2	<1	0.0	0	240.9	<1	247.1	<1	192.6	<1	0.0	0	9,752.8	2
Status 4	0.0	0	0.0	0	3.3	<1	17.4	<1	63.8	<1	572,434.8	97	572,601.8	97
Total	165.2	<1	3.7	<1	521.6	<1	503.2	<1	256.4	<1	572,435.3	97	590,657.7	100

Map Unit Name: Piedmont Xeric Pine Forests

Map Unit: 220

Lamda: 55

Theta: 62

N: 52

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	16.6	<1	0.0	0	0.0	0	741.8	<1	0.0	0	1.0	<1
Status 2	59.3	<1	0.0	0	0.0	0	0.0	0	720.0	<1	11.7	<1	1,349.8	1
Status 3	0.0	0	672.8	<1	1.4	<1	254.4	<1	0.0	0	52.6	<1	248.3	<1
Status 4	0.0	0	0.0	0	0.0	0	7.2	<1	0.0	0	0.0	0	0.0	0
Total	59.3	<1	689.3	<1	1.4	<1	261.6	<1	1,461.8	2	64.3	<1	1,599.1	2

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	17.0	<1	0.0	0	0.0	0	776.3	<1
Status 2	0.0	0	0.0	0	64.2	<1	6.6	<1	0.0	0	0.0	0	2,211.6	2
Status 3	31.0	<1	0.0	0	49.1	<1	33.2	<1	99.3	<1	0.0	0	1,442.0	2
Status 4	0.0	0	0.0	0	0.0	0	2.9	<1	9.0	<1	89,306.6	95	89,325.6	95
Total	31.0	<1	0.0	0	113.3	<1	59.7	<1	108.3	<1	89,306.6	95	93,755.5	100

Map Unit Name: Piedmont Xeric Woodlands

Map Unit: 226

Lamda: 28

Theta: 91

N: 31

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	368.5	<1	0.0	0	0.0	0	911.5	<1	0.0	0	1.4	<1
Status 2	50.5	<1	0.0	0	0.0	0	0.0	0	1,204.5	<1	32.8	<1	2,241.6	<1
Status 3	0.0	0	2,305.5	<1	3.7	<1	322.7	<1	0.0	0	41.3	<1	371.0	<1
Status 4	0.0	0	0.0	0	0.0	0	21.2	<1	5.3	<1	0.0	0	0.0	0
Total	50.5	<1	2,674.0	<1	3.7	<1	343.8	<1	2,121.3	<1	74.1	<1	2,614.1	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.2	<1	81.7	<1	0.0	0	0.0	0	1,363.3	<1
Status 2	0.0	0	0.0	0	112.1	<1	32.1	<1	0.0	0	0.0	0	3,673.6	1
Status 3	17.0	<1	0.0	0	92.8	<1	105.0	<1	70.4	<1	0.0	0	3,329.4	1
Status 4	0.0	0	0.0	0	0.0	0	15.6	<1	66.0	<1	267,842.6	97	267,950.6	97
Total	17.0	<1	0.0	0	205.1	<1	234.5	<1	136.4	<1	267,842.6	97	276,316.9	100

Map Unit Name: Dry Mesic Oak Forests

Map Unit: 518

Lamda: 16

Theta: 98

N: 47

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,153.5	<1	30,216.4	4	0.0	0	2,426.6	<1	0.0	0	1,049.0	<1
Status 2	0.0	0	0.0	0	4,489.7	<1	0.0	0	2,630.9	<1	15.3	<1	5,015.6	<1
Status 3	0.0	0	151,875.3	21	43.0	<1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	19.3	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	157,028.8	22	34,749.2	5	19.3	<1	5,057.5	<1	15.3	<1	6,064.7	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	235.3	<1	0.0	0	0.0	0	39,080.8	5
Status 2	345.5	<1	0.0	0	1,915.2	<1	258.6	<1	0.0	0	0.0	0	14,670.8	2
Status 3	1,420.1	<1	0.0	0	0.0	0	193.9	<1	0.0	0	0.0	0	153,532.3	21
Status 4	0.0	0	0.0	0	0.0	0	282.2	<1	34.2	<1	509,733.9	71	510,069.5	71
Total	1,765.6	<1	0.0	0	1,915.2	<1	969.8	<1	34.2	<1	509,733.9	71	717,353.4	100

Map Unit Name: Dry Mesic Mixed Forest

Map Unit: 519

Lamda: 26

Theta: 90

N: 40

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,927.3	1	5,176.0	3	0.0	0	442.6	<1	0.0	0	220.0	<1
Status 2	0.0	0	0.0	0	1,407.7	<1	0.0	0	598.9	<1	1.4	<1	891.5	<1
Status 3	0.0	0	30,474.1	18	16.7	<1	0.0	0	0.0	0	0.5	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	22.2	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	32,401.4	20	6,600.4	4	22.2	<1	1,041.5	<1	2.0	<1	1,111.5	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	64.6	<1	0.0	0	0.0	0	7,830.5	5
Status 2	93.0	<1	0.0	0	166.9	<1	79.4	<1	0.0	0	0.0	0	3,238.7	2
Status 3	368.6	<1	0.0	0	0.0	0	81.1	<1	0.0	0	0.0	0	30,941.0	19
Status 4	0.0	0	0.0	0	0.0	0	23.9	<1	10.8	<1	123,285.2	75	123,342.0	75
Total	461.5	<1	0.0	0	166.9	<1	248.9	<1	10.8	<1	123,285.2	75	165,352.2	100

Map Unit Name: Mesic Hardwood Forest

Map Unit: 520

Lamda: 33

Theta: 32

N: 22

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	88.9	<1	498.3	2	0.0	0	29.8	<1	0.0	0	5.5	<1
Status 2	0.0	0	0.0	0	444.7	2	0.0	0	135.5	<1	1.7	<1	93.7	<1
Status 3	0.0	0	3,254.7	11	0.6	<1	0.0	0	0.0	0	2.1	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	3.9	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,343.6	11	943.7	3	3.9	<1	165.2	<1	3.8	<1	99.2	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	26.0	<1	<0.1	<1	0.0	0	648.6	2
Status 2	32.1	<1	0.0	0	107.3	<1	6.7	<1	0.0	0	0.0	0	821.6	3
Status 3	85.1	<1	0.0	0	0.0	0	12.1	<1	0.0	0	0.0	0	3,354.5	11
Status 4	0.0	0	0.0	0	0.0	0	5.5	<1	<0.1	<1	24,375.4	83	24,384.9	83
Total	117.1	<1	0.0	0	107.3	<1	50.2	<1	0.2	<1	24,375.4	83	29,209.5	100

Map Unit Name: Hemlock Floodplain Forest

Map Unit: 517

Lamda: 23

Theta: 100

N: 5

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	129.0	<1	422.5	2	0.0	0	14.2	<1	0.0	0	29.7	<1
Status 2	0.0	0	0.0	0	257.5	1	0.0	0	68.6	<1	0.6	<1	115.5	<1
Status 3	0.0	0	2,836.4	12	3.4	<1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	4.1	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,965.3	13	683.4	3	4.1	<1	82.8	<1	0.6	<1	145.2	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	9.1	<1	0.9	<1	0.0	0	605.3	3
Status 2	35.1	<1	0.0	0	25.7	<1	27.7	<1	0.0	0	0.0	0	530.6	2
Status 3	106.5	<1	0.0	0	0.0	0	8.6	<1	0.0	0	0.0	0	2,954.8	13
Status 4	0.0	0	0.0	0	0.0	0	2.3	<1	0.5	<1	19,203.9	82	19,210.8	82
Total	141.5	<1	0.0	0	25.7	<1	47.6	<1	1.4	<1	19,203.9	82	23,301.5	100

Map Unit Name: Spruce/Fir Forest

Map Unit: 521

Lamda: 92

Theta: 40

N: 73

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	688.0	5	8,339.9	55	0.0	0	0.3	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	752.5	5	0.0	0	438.1	3	0.0	0	3.2	< 1
Status 3	0.0	0	2,416.2	16	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,104.2	20	9,092.3	60	0.0	0	438.4	3	< 0.1	< 1	3.2	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	180.6	1	0.0	0	0.0	0	9,208.7	61
Status 2	0.0	0	0.0	0	313.7	2	0.2	< 1	0.0	0	0.0	0	1,507.7	10
Status 3	0.0	0	0.0	0	0.0	0	532.4	4	0.0	0	0.0	0	2,948.7	19
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,539.2	10	1,539.2	10
Total	0.0	0	0.0	0	313.7	2	713.2	5	0.0	0	1,539.2	10	15,204.2	100

Map Unit Name: Northern Hardwoods

Map Unit: 522

Lamda: 97

Theta: 15

N: 177

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,455.7	10	2,412.6	17	0.0	0	5.0	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	638.0	4	0.0	0	5.9	< 1	0.0	0	43.4	< 1
Status 3	0.0	0	4,445.6	31	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	5,901.3	41	3,050.6	21	0.0	0	10.8	< 1	< 0.1	< 1	43.4	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	52.2	< 1	0.0	0	0.0	0	3,925.4	27
Status 2	< 0.1	< 1	0.0	0	250.9	2	11.8	< 1	0.0	0	0.0	0	950.0	7
Status 3	0.0	0	0.0	0	0.0	0	304.8	2	0.0	0	0.0	0	4,750.6	33
Status 4	0.0	0	0.0	0	0.0	0	8.6	< 1	0.0	0	4,935.8	34	4,944.3	34
Total	< 0.1	< 1	0.0	0	250.9	2	377.4	3	0.0	0	4,935.8	34	14,570.3	100

Map Unit Name: Grassy Bald

Map Unit: 523

Lamda: 60

Theta: 8

N: 7

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10.0	3	12.5	4	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	11.9	4	0.0	0	2.7	< 1	0.0	0	0.0	0
Status 3	0.0	0	203.8	62	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	213.8	65	24.4	7	0.0	0	2.7	< 1	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	36.0	11	0.0	0	0.0	0	58.5	18
Status 2	0.0	0	0.0	0	0.3	< 1	0.0	0	0.0	0	0.0	0	14.9	5
Status 3	0.0	0	0.0	0	0.0	0	0.3	< 1	0.0	0	0.0	0	204.0	62
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	49.4	15	49.4	15
Total	0.0	0	0.0	0	0.3	< 1	36.3	11	0.0	0	49.4	15	326.8	100

Map Unit Name: Shrub Bald

Map Unit: 524

Lamda: 75

Theta: 32

N: 74

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,404.2	7	2,521.0	12	0.0	0	14.0	< 1	0.0	0	4.4	< 1
Status 2	0.0	0	0.0	0	1,003.6	5	0.0	0	177.7	< 1	0.0	0	64.5	< 1
Status 3	0.0	0	4,294.8	21	2.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	5,699.0	27	3,526.7	17	0.2	< 1	191.6	< 1	0.0	0	68.9	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	129.1	< 1	0.0	0	0.0	0	4,072.6	20
Status 2	6.9	< 1	0.0	0	163.6	< 1	4.2	< 1	0.0	0	0.0	0	1,420.6	7
Status 3	23.9	< 1	0.0	0	0.0	0	350.1	2	0.0	0	0.0	0	4,670.9	22
Status 4	0.0	0	0.0	0	0.0	0	3.0	< 1	0.5	< 1	10,618.6	51	10,622.3	51
Total	30.8	< 1	0.0	0	163.6	< 1	486.4	2	0.5	< 1	10,618.6	51	20,786.3	100

Map Unit Name: Appalachian Oak Forest

Map Unit: 525

Lamda: 77

Theta: 39

N: 505

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,979.2	3	22,489.5	10	0.0	0	249.4	<1	0.0	0	49.6	<1
Status 2	0.0	0	0.0	0	3,637.4	2	0.0	0	221.0	<1	4.3	<1	1,185.8	<1
Status 3	0.0	0	62,339.5	28	5.9	<1	0.0	0	0.0	0	30.6	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.3	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	68,318.6	30	26,132.8	12	0.3	<1	470.3	<1	34.9	<1	1,235.3	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	580.2	<1	0.0	0	0.0	0	29,347.8	13
Status 2	59.9	<1	0.0	0	2,056.8	<1	250.7	<1	0.0	0	0.0	0	7,415.7	3
Status 3	172.5	<1	0.0	0	0.0	0	821.1	<1	0.0	0	0.0	0	63,369.6	28
Status 4	0.0	0	0.0	0	0.0	0	58.3	<1	2.9	<1	124,618.9	55	124,680.3	55
Total	232.5	<1	0.0	0	2,056.8	<1	1,710.3	<1	2.9	<1	124,618.9	55	224,813.5	100

Map Unit Name: Appalachian Cove Forest

Map Unit: 526

Lamda: 60

Theta: 67

N: 217

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,591.1	3	25,658.3	11	0.0	0	550.2	<1	0.0	0	267.2	<1
Status 2	0.0	0	0.0	0	2,617.3	1	0.0	0	439.0	<1	0.5	<1	1,497.1	<1
Status 3	0.0	0	72,095.0	31	3.5	<1	0.0	0	0.0	0	11.5	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	6.9	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	78,686.0	33	28,279.1	12	6.9	<1	989.2	<1	12.1	<1	1,764.3	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	504.6	<1	0.0	0	0.0	0	33,571.4	14
Status 2	21.8	<1	0.0	0	1,935.5	<1	252.5	<1	0.0	0	0.0	0	6,763.6	3
Status 3	124.8	<1	0.0	0	0.0	0	965.2	<1	0.0	0	0.0	0	73,200.0	31
Status 4	0.0	0	0.0	0	0.0	0	53.4	<1	1.1	<1	122,325.1	52	122,386.5	52
Total	146.6	<1	0.0	0	1,935.5	<1	1,775.6	<1	1.1	<1	122,325.1	52	235,921.4	100

Map Unit Name: Appalachian Hemlock

Map Unit: 527

Lamda: 64

Theta: 23

N: 91

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	630.9	2	931.4	2	0.0	0	85.1	<1	0.0	0	74.8	<1
Status 2	0.0	0	0.0	0	681.4	2	0.0	0	212.2	<1	0.6	<1	228.0	<1
Status 3	0.0	0	6,745.0	18	5.6	<1	0.0	0	0.0	0	1.1	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	8.5	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	7,375.9	19	1,618.4	4	8.5	<1	297.4	<1	1.7	<1	302.8	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	32.8	<1	0.2	<1	0.0	0	1,755.2	5
Status 2	22.5	<1	0.0	0	26.1	<1	18.0	<1	0.0	0	0.0	0	1,188.8	3
Status 3	106.0	<1	0.0	0	0.0	0	7.7	<1	0.0	0	0.0	0	6,865.4	18
Status 4	0.0	0	0.0	0	0.0	0	2.5	<1	2.3	<1	28,275.8	74	28,289.2	74
Total	128.5	<1	0.0	0	26.1	<1	61.0	<1	2.5	<1	28,275.8	74	38,098.5	100

Map Unit Name: Appalachian Xeric Pine Forest

Map Unit: 528

Lamda: 55

Theta: 32

N: 62

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,014.0	2	4,082.6	9	0.0	0	51.8	<1	0.0	0	30.8	<1
Status 2	0.0	0	0.0	0	728.2	2	0.0	0	117.3	<1	<0.1	<1	181.6	<1
Status 3	0.0	0	9,739.6	21	1.9	<1	0.0	0	0.0	0	1.6	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.6	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	10,753.7	23	4,812.7	10	2.6	<1	169.0	<1	1.7	<1	212.4	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	132.4	<1	0.0	0	0.0	0	5,311.5	11
Status 2	30.2	<1	0.0	0	103.3	<1	34.5	<1	0.0	0	0.0	0	1,195.2	3
Status 3	93.1	<1	0.0	0	0.0	0	117.6	<1	0.0	0	0.0	0	9,953.8	21
Status 4	0.0	0	0.0	0	0.0	0	3.2	<1	0.8	<1	30,898.0	65	30,904.6	65
Total	123.3	<1	0.0	0	103.3	<1	287.6	<1	0.8	<1	30,898.0	65	47,365.1	100

Map Unit Name: Appalachian Xeric Mixed Forest

Map Unit: 529

Lamda: 92

Theta: 2

N: 171

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	349.0	4	1,159.4	13	0.0	0	24.4	< 1	0.0	0	18.7	< 1
Status 2	0.0	0	0.0	0	249.0	3	0.0	0	22.7	< 1	0.0	0	51.5	< 1
Status 3	0.0	0	2,559.3	29	0.0	0	0.0	0	0.0	0	0.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,908.4	33	1,408.4	16	0.0	0	47.1	< 1	0.8	< 1	70.2	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	39.9	< 1	0.0	0	0.0	0	1,591.4	18
Status 2	0.8	< 1	0.0	0	41.9	< 1	5.8	< 1	0.0	0	0.0	0	371.6	4
Status 3	1.4	< 1	0.0	0	0.0	0	69.2	< 1	0.0	0	0.0	0	2,630.8	30
Status 4	0.0	0	0.0	0	0.0	0	1.4	< 1	0.0	0	4,114.7	47	4,116.2	47
Total	2.3	< 1	0.0	0	41.9	< 1	116.3	1	0.0	0	4,114.7	47	8,710.0	100

Map Unit Name: Appalachian Xeric Deciduous Forest

Map Unit: 530

Lamda: 70

Theta: 23

N: 106

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,128.0	2	5,199.3	10	0.0	0	124.0	< 1	0.0	0	87.6	< 1
Status 2	0.0	0	0.0	0	842.1	2	0.0	0	86.4	< 1	0.2	< 1	323.1	< 1
Status 3	0.0	0	16,674.0	33	0.0	0	0.0	0	0.0	0	15.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.3	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	17,802.0	36	6,041.4	12	0.3	< 1	210.4	< 1	15.4	< 1	410.7	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	162.4	< 1	0.0	0	0.0	0	6,701.2	13
Status 2	1.3	< 1	0.0	0	322.7	< 1	43.9	< 1	0.0	0	0.0	0	1,619.8	3
Status 3	7.7	< 1	0.0	0	0.0	0	109.3	< 1	0.0	0	0.0	0	16,806.2	34
Status 4	0.0	0	0.0	0	0.0	0	25.4	< 1	0.0	0	24,980.5	50	25,006.1	50
Total	9.0	< 1	0.0	0	322.7	< 1	340.9	< 1	0.0	0	24,980.5	50	50,133.3	100

Map Unit Name: Appalachian Swamp Forest

Map Unit: 533

Lamda: 0

Theta: 0

N: 20

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	2.3	5	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	16.9	39	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	16.9	39	2.3	5	0.2	< 1	0.0	0	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	< 0.1	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.3	5
Status 3	1.5	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	18.5	42
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	22.7	52	22.9	52
Total	1.6	4	0.0	0	0.0	0	0.0	0	0.0	0	22.7	52	43.6	100

Map Unit Name: Appalachian Wet Shrubland/ Herbaceous

Map Unit: 534

Lamda: 0

Theta: 0

N: 4

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3.2	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	6.8	9	0.0	0	2.3	3	0.0	0	0.0	0
Status 3	0.0	0	18.6	25	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	21.9	29	6.8	9	0.0	0	2.3	3	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3.2	4
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9.0	12
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	18.6	25
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	45.0	59	45.0	59
Total	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	45.0	59	75.9	100

Map Unit Name: Talus/Outcrops/Cliffs

Map Unit: 535

Lamda: 100

Theta: 0

N: 53

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	< 0.1	< 1	2.3	6	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.8	2	0.0	0	1.4	4	0.0	0	0.0	0
Status 3	0.0	0	18.5	52	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	18.5	52	3.1	9	0.0	0	1.4	4	0.0	0	0.0	0

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	0.0	0	2.5	7
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.3	6
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	18.5	52
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	12.3	35	12.3	35
Total	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	12.3	35	35.6	100

Map Unit Name: Coniferous Regeneration

Map Unit: 20

Lamda: 88

Theta: 47

N: 302

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	49.6	< 1	0.0	0	0.0	0	150.1	< 1	0.0	0	11.3	< 1
Status 2	1,102.5	< 1	0.0	0	0.0	0	0.0	0	186.1	< 1	0.6	< 1	754.6	< 1
Status 3	0.0	0	495.8	< 1	3.9	< 1	840.2	< 1	0.0	0	1,217.6	< 1	2.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.3	< 1
Total	1,102.5	< 1	545.4	< 1	3.9	< 1	840.2	< 1	336.2	< 1	1,218.2	< 1	769.3	< 1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	20.9	< 1	0.0	0	55.6	< 1	2.3	< 1	0.0	0	289.7	< 1
Status 2	0.0	0	0.0	0	0.5	< 1	78.9	< 1	0.0	0	6.6	< 1	2,129.9	< 1
Status 3	758.9	< 1	0.0	0	< 0.1	< 1	71.4	< 1	437.8	< 1	0.0	0	3,827.8	2
Status 4	0.0	0	0.0	0	3.8	< 1	0.0	0	3.1	< 1	209,077.3	97	209,085.4	97
Total	758.9	< 1	20.9	< 1	4.4	< 1	205.9	< 1	443.1	< 1	209,083.9	97	215,332.7	100

Map Unit Name: Coniferous Cultivated Plantation

Map Unit: 21

Lamda: 78

Theta: 72

N: 1112

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	452.9	<1	0.0	0	0.0	0	642.7	<1	1.4	<1	44.8	<1
Status 2	2,943.2	<1	0.0	0	0.0	0	0.0	0	2,889.3	<1	40.9	<1	4,822.0	<1
Status 3	0.0	0	10,184.7	1	99.4	<1	14,970.7	2	2.7	<1	9,209.4	<1	3,412.1	<1
Status 4	0.0	0	0.0	0	0.0	0	50.9	<1	0.0	0	0.0	0	296.9	<1
Total	2,943.2	<1	10,637.6	1	99.4	<1	15,021.5	2	3,534.7	<1	9,251.6	<1	8,575.8	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	80.6	<1	1.2	<1	360.9	<1	17.2	<1	0.0	0	1,601.6	<1
Status 2	0.0	0	2.5	<1	130.6	<1	946.3	<1	0.0	0	6.6	<1	11,781.3	1
Status 3	2,722.4	<1	0.0	0	329.0	<1	438.1	<1	501.0	<1	0.0	0	41,869.4	4
Status 4	0.0	0	0.0	0	27.7	<1	31.4	<1	24.5	<1	910,994.9	94	911,426.3	94
Total	2,722.4	<1	83.1	<1	488.4	<1	1,776.7	<1	542.7	<1	911,001.5	94	966,678.6	100

Map Unit Name: Deciduous Cultivated Plantation

Map Unit: 51

Lamda: 0

Theta: 0

N: 14

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.3	<1	0.0	0	0.0	0
Status 2	57.2	2	0.0	0	0.0	0	0.0	0	0.7	<1	0.0	0	32.3	1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2.3	<1	2.4	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	57.2	2	0.0	0	0.0	0	0.0	0	1.0	<1	2.3	<1	34.7	1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2.3	<1	0.0	0	11.3	<1	0.0	0	0.0	0	13.9	<1
Status 2	0.0	0	0.0	0	1.4	<1	1.7	<1	0.0	0	0.4	<1	93.8	3
Status 3	0.0	0	0.0	0	0.0	0	3.2	<1	0.0	0	0.0	0	7.9	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.7	<1	2,946.5	96	2,947.2	96
Total	0.0	0	2.3	<1	1.4	<1	16.2	<1	0.7	<1	2,946.9	96	3,062.8	100

Map Unit Name: Successional Deciduous Forests

Map Unit: 36

Lamda: 81

Theta: 59

N: 436

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	54.9	<1	208.4	<1	0.0	0	188.1	<1	0.0	0	88.4	<1
Status 2	251.7	<1	0.0	0	21.5	<1	0.0	0	203.9	<1	72.6	<1	523.0	<1
Status 3	0.0	0	4,542.8	1	1.4	<1	1,423.0	<1	0.4	<1	1,412.2	<1	63.7	<1
Status 4	0.0	0	0.0	0	0.0	0	62.8	<1	0.9	<1	0.0	0	22.4	<1
Total	251.7	<1	4,597.7	1	231.2	<1	1,485.8	<1	393.2	<1	1,484.8	<1	697.5	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.2	<1	0.0	0	58.1	<1	80.3	<1	0.0	0	687.2	<1
Status 2	0.7	<1	0.0	0	171.8	<1	47.6	<1	0.0	0	1.0	<1	1,293.8	<1
Status 3	149.2	<1	0.0	0	22.1	<1	146.6	<1	221.8	<1	0.0	0	7,983.1	2
Status 4	0.0	0	0.0	0	4.8	<1	5.9	<1	30.0	<1	428,556.1	98	428,682.9	98
Total	149.9	<1	9.2	<1	198.6	<1	258.2	<1	332.0	<1	428,557.1	98	438,647.0	100

Map Unit Name: Agricultural Crop Fields

Map Unit: 180

Lamda: 92

Theta: 80

N: 1439

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	19.0	<1	32.6	<1	67.6	<1	0.0	0	377.2	<1	0.0	0	81.3	<1
Status 2	5,543.1	<1	0.0	0	246.8	<1	0.0	0	521.6	<1	128.0	<1	1,566.0	<1
Status 3	0.0	0	1,283.9	<1	5.1	<1	3,582.9	<1	15.3	<1	935.2	<1	1,266.6	<1
Status 4	0.0	0	0.0	0	0.0	0	43.3	<1	3.0	<1	0.0	0	315.8	<1
Total	5,562.1	<1	1,316.5	<1	319.5	<1	3,626.2	<1	917.0	<1	1,063.2	<1	3,229.7	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.2	<1	0.0	0	189.8	<1	22.1	<1	0.0	0	798.8	<1
Status 2	1.9	<1	4.4	<1	110.9	<1	552.7	<1	0.0	0	16.4	<1	8,691.7	<1
Status 3	508.9	<1	0.0	0	144.2	<1	421.8	<1	1,570.1	<1	0.0	0	9,734.0	<1
Status 4	0.0	0	0.0	0	29.0	<1	56.5	<1	371.7	<1	2,407,475.0	99	2,408,294.3	99
Total	510.8	<1	13.6	<1	284.0	<1	1,220.9	<1	1,963.9	<1	2,407,491.4	99	2,427,518.6	100

Map Unit Name: Agricultural Pasture/Hay and Natural Herbaceous Map Unit: 205

Lamda: 21 Theta: 87 N: 67

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	<1	291.5	<1	1,351.1	<1	0.0	0	198.4	<1	0.2	<1	22.6	<1
Status 2	1,090.4	<1	0.0	0	1,553.3	<1	0.0	0	255.3	<1	3.7	<1	712.8	<1
Status 3	0.0	0	10,687.9	1	84.6	<1	2,499.5	<1	0.0	0	137.7	<1	174.9	<1
Status 4	0.0	0	0.0	0	0.0	0	23.1	<1	0.0	0	0.0	0	133.0	<1
Total	1,091.9	<1	10,979.4	1	2,989.0	<1	2,522.6	<1	453.7	<1	141.6	<1	1,043.3	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.8	<1	0.0	0	61.8	<1	<0.1	<1	0.0	0	1,937.0	<1
Status 2	53.4	<1	0.0	0	114.6	<1	140.2	<1	0.0	0	0.8	<1	3,924.5	<1
Status 3	381.0	<1	0.0	0	54.8	<1	139.7	<1	25.2	<1	0.0	0	14,185.2	1
Status 4	0.0	0	0.0	0	6.0	<1	23.7	<1	250.6	<1	1,047,163.0	98	1,047,599.4	98
Total	434.4	<1	9.8	<1	175.4	<1	365.4	<1	275.9	<1	1,047,163.8	98	1,067,646.0	100

Map Unit Name: Barren; Quarries, Strip Mines, and Gravel Pits

Map Unit: 213

Lamda: 43 Theta: 71 N: 5

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.2	<1	0.4	<1	13.1	<1	0.0	0	57.6	<1	0.0	0	0.4	<1
Status 2	31.5	<1	0.0	0	<0.1	<1	0.0	0	0.9	<1	0.0	0	6.9	<1
Status 3	0.0	0	41.0	<1	17.6	<1	188.1	2	0.0	0	0.2	<1	1.3	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	0.2	<1
Total	31.7	<1	41.4	<1	30.9	<1	188.1	2	58.6	<1	0.2	<1	8.7	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.5	<1	0.0	0	8.7	<1	0.0	0	0.0	0	80.8	<1
Status 2	0.0	0	0.0	0	4.4	<1	0.5	<1	0.0	0	0.0	0	44.3	<1
Status 3	3.4	<1	0.0	0	0.0	0	1.3	<1	0.0	0	0.0	0	252.9	2
Status 4	0.0	0	0.0	0	<0.1	<1	0.0	0	0.4	<1	11,863.2	97	11,863.9	97
Total	3.4	<1	0.5	<1	4.5	<1	10.4	<1	0.4	<1	11,863.2	97	12,241.9	100

Map Unit Name: Barren; Bare Rock and Sand

Map Unit: 214

Lamda: 50

Theta: 0

N: 1

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.3	<1	1.6	<1	0.0	0	0.4	<1	0.0	0	<0.1	<1
Status 2	0.4	<1	0.0	0	5.0	<1	0.0	0	5.3	<1	0.7	<1	1.4	<1
Status 3	0.0	0	53.3	<1	0.0	0	190.4	1	0.0	0	0.0	0	2.3	<1
Status 4	0.0	0	0.0	0	0.0	0	0.2	<1	0.0	0	0.0	0	<0.1	<1
Total	0.4	<1	53.6	<1	6.6	<1	190.5	1	5.7	<1	0.7	<1	4.0	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.4	<1	0.0	0	0.0	0	2.7	<1
Status 2	0.4	<1	118.9	<1	2.9	<1	2.2	<1	0.0	0	0.0	0	137.1	<1
Status 3	3.2	<1	0.0	0	0.3	<1	1.4	<1	<0.1	<1	0.0	0	251.0	2
Status 4	0.0	0	0.0	0	228.1	1	0.4	<1	3.9	<1	15,598.6	96	15,831.2	98
Total	3.7	<1	118.9	<1	231.2	1	4.3	<1	4.0	<1	15,598.6	96	16,222.0	100

Map Unit Name: Sand

Map Unit: 60

Lamda: 0

Theta: 0

N: 9

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.2	<1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.4	<1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	2,277.4	33	0.0	0	0.0	0	157.9	2
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4.5	<1
Total	0.0	0	0.0	0	0.0	0	2,277.4	33	0.5	<1	0.0	0	162.4	2

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	0.0	0	0.3	<1
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.4	<1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,435.2	35
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4,552.4	65	4,556.9	65
Total	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	4,552.4	65	6,992.7	100

Map Unit Name: Residential Urban

Map Unit: 202

Lamda: 21

Theta: 94

N: 11

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2.0	<1	1.5	<1	0.0	0	11.9	<1	0.0	0	0.0	0
Status 2	37.6	<1	0.0	0	120.8	<1	0.0	0	77.9	<1	2.3	<1	331.0	<1
Status 3	0.0	0	242.8	<1	63.1	<1	3,277.0	1	1.3	<1	7.8	<1	48.6	<1
Status 4	0.0	0	0.0	0	0.0	0	1.3	<1	0.2	<1	0.0	0	30.0	<1
Total	37.6	<1	244.8	<1	185.4	<1	3,278.3	1	91.3	<1	10.2	<1	409.6	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4.0	<1	0.0	0	6.1	<1	0.0	0	0.0	0	25.5	<1
Status 2	0.0	0	0.0	0	33.9	<1	10.0	<1	0.0	0	0.0	0	613.6	<1
Status 3	9.1	<1	0.0	0	101.1	<1	8.1	<1	215.2	<1	0.0	0	3,974.0	1
Status 4	0.0	0	0.0	0	9.5	<1	10.9	<1	0.4	<1	269,350.7	98	269,402.9	98
Total	9.1	<1	4.0	<1	144.5	<1	35.1	<1	215.6	<1	269,350.7	98	274,016.0	100

Map Unit Name: Urban Low-Intensity Developed

Map Unit: 203

Lamda: 100

Theta: 0

N: 2

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	11.3	<1	0.0	0	0.0	0
Status 2	13.8	<1	0.0	0	6.3	<1	0.0	0	11.7	<1	0.0	0	51.9	<1
Status 3	0.0	0	1.7	<1	148.6	<1	2,372.1	4	0.0	0	0.3	<1	0.5	<1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	10.7	<1
Total	13.8	<1	1.7	<1	154.9	<1	2,372.1	4	23.0	<1	0.3	<1	63.2	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4.0	<1	0.0	0	0.7	<1	0.0	0	0.0	0	15.9	<1
Status 2	0.0	0	0.0	0	9.3	<1	3.2	<1	0.0	0	0.0	0	96.2	<1
Status 3	0.0	0	0.0	0	20.7	<1	0.6	<1	0.0	0	0.0	0	2,544.6	4
Status 4	0.0	0	0.0	0	<0.1	<1	0.0	0	0.0	0	62,348.8	96	62,359.6	96
Total	0.0	0	4.0	<1	30.1	<1	4.6	<1	0.0	0	62,348.8	96	65,016.3	100

Map Unit Name: Urban High-Intensity Developed

Map Unit: 204

Lamda: 53

Theta: 74

N: 13

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4.7	<1	13.8	<1	0.0	0	3.8	<1	0.0	0	0.7	<1
Status 2	25.8	<1	0.0	0	78.5	<1	0.0	0	74.1	<1	1.1	<1	138.9	<1
Status 3	0.0	0	404.5	<1	4.9	<1	3,907.8	3	0.3	<1	0.4	<1	48.8	<1
Status 4	0.0	0	0.0	0	0.0	0	10.4	<1	0.3	<1	0.0	0	27.5	<1
Total	25.8	<1	409.1	<1	97.1	<1	3,918.2	3	78.4	<1	1.4	<1	215.9	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3.2	<1	0.0	0	5.4	<1	0.0	0	0.0	0	31.6	<1
Status 2	0.6	<1	0.2	<1	23.9	<1	8.7	<1	0.0	0	0.0	0	351.8	<1
Status 3	21.8	<1	0.0	0	10.3	<1	3.6	<1	6.2	<1	0.0	0	4,408.4	3
Status 4	0.0	0	0.0	0	2.3	<1	4.8	<1	1.4	<1	144,601.6	97	144,648.3	97
Total	22.4	<1	3.4	<1	36.5	<1	22.5	<1	7.6	<1	144,601.6	97	149,440.0	100

Map Unit Name: Open water

Map Unit: 8

Lamda: 59

Theta: 99

N: 53

	US FWS		US Forest Service		US Nat. Park		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.6	<1	27.1	<1	22.7	<1	0.0	0	297.2	<1	0.8	<1	89.0	<1
Status 2	978.8	1	0.0	0	145.7	<1	0.0	0	255.5	<1	2.3	<1	381.3	<1
Status 3	0.0	0	468.5	<1	207.1	<1	797.8	<1	0.0	0	37.1	<1	259.0	<1
Status 4	0.0	0	0.0	0	0.0	0	39.6	<1	0.2	<1	0.0	0	33.4	<1
Total	1,012.4	1	495.5	<1	375.5	<1	837.4	1	552.9	<1	40.1	<1	762.8	<1

	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	45.2	<1	21.7	<1	45.5	<1	0.0	0	0.0	0	582.8	<1
Status 2	0.8	<1	1.4	<1	190.7	<1	37.4	<1	0.0	0	0.5	<1	1,994.5	2
Status 3	76.0	<1	0.0	0	353.3	<1	112.0	<1	36.9	<1	0.0	0	2,347.6	3
Status 4	0.0	0	0.0	0	3.9	<1	13.1	<1	5.9	<1	76,705.7	94	76,801.7	94
Total	76.7	<1	46.5	<1	569.6	<1	208.0	<1	42.8	<1	76,706.2	94	81,726.5	100

Appendix BB. Gap analysis results for each of the 414 species modeled for the NC-GAP. Each table presents the results for a single species, summarized by management and Status. The total percentage of the distribution on Status 1 and 2 lands is used for comparison to the representation threshold presented in the text of the report.

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MABEE'S SALAMANDER
Scientific Name: *AMBYSTOMA MABEEI*

ITIS TSN: 173600
NS EICode: AAAAA01070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	11,878.5	1	0.0	0	0.0	0	4,706.4	< 1	253.4	< 1	4,494.3	< 1
Status 2	59,712.2	5	0.0	0	0.0	0	0.0	0	3,416.9	< 1	690.8	< 1	42,593.9	4
Status 3	0.0	0	32,165.0	3	76.1	< 1	51,192.3	4	21.4	< 1	17,645.7	2	3,920.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	289.2	< 1
Total	59,712.2	5	44,043.5	4	76.1	< 1	51,193.2	4	8,144.6	< 1	18,589.8	2	51,297.3	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,504.9	< 1	0.0	0	6,257.5	< 1	114.6	< 1	0.0	0	30,209.5	3
Status 2	0.0	0	19.6	< 1	42.8	< 1	1,771.0	< 1	0.0	0	57.1	< 1	108,304.2	9
Status 3	7,703.6	< 1	0.0	0	24.9	< 1	7,558.7	< 1	24.3	< 1	0.0	0	120,332.1	11
Status 4	0.0	0	0.0	0	23.0	< 1	39.0	< 1	261.5	< 1	882,211.3	77	882,824.9	77
Total	7,703.6	< 1	2,524.5	< 1	90.8	< 1	15,626.3	1	400.4	< 1	882,268.4	77	1,141,670.7	100

Common Name: SPOTTED SALAMANDER
Scientific Name: *AMBYSTOMA MACULATUM*

ITIS TSN: 173590
NS EICode: AAAAA01090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.6	< 1	1,127.0	< 1	4,209.8	< 1	0.0	0	1,586.2	< 1	0.0	0	559.3	< 1
Status 2	9,089.6	< 1	0.0	0	483.3	< 1	0.0	0	3,584.9	< 1	821.8	< 1	9,591.5	< 1
Status 3	0.0	0	26,955.7	2	33.5	< 1	3,828.7	< 1	25.5	< 1	167.9	< 1	3,301.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	728.8	< 1	19.1	< 1	0.0	0	104.0	< 1
Total	9,090.3	< 1	28,082.7	2	4,726.5	< 1	4,557.5	< 1	5,215.6	< 1	989.6	< 1	13,556.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	5.3	< 1	651.4	< 1	1.2	< 1	0.0	0	8,140.7	< 1
Status 2	18.7	< 1	0.0	0	690.9	< 1	276.5	< 1	0.0	0	0.0	0	24,557.2	2
Status 3	351.9	< 1	0.0	0	492.4	< 1	877.7	< 1	237.8	< 1	0.0	0	36,272.5	3
Status 4	0.0	0	0.0	0	0.0	0	100.0	< 1	442.1	< 1	1,064,146.3	94	1,065,540.2	94
Total	370.6	< 1	0.0	0	1,188.6	< 1	1,905.6	< 1	681.0	< 1	1,064,146.3	94	1,134,510.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MARBLED SALAMANDER
Scientific Name: AMBYSTOMA OPACUM

ITIS TSN: 173591
NS EICode: AAAAA01100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	2.7	< 1	18,600.3	< 1	26,304.5	< 1	0.0	0	13,641.1	< 1	701.2	< 1	7,449.1	< 1
Status 2	110,917.9	2	0.0	0	703.5	< 1	0.0	0	14,996.4	< 1	1,319.3	< 1	71,081.9	1
Status 3	0.0	0	155,601.6	3	1,025.2	< 1	82,352.4	2	34.7	< 1	30,098.9	< 1	11,810.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	955.0	< 1	35.6	< 1	0.0	0	439.5	< 1
Total	110,920.6	2	174,201.9	3	28,033.2	< 1	83,307.4	2	28,707.8	< 1	32,119.4	< 1	90,780.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,915.2	< 1	9.1	< 1	7,735.5	< 1	168.1	< 1	0.0	0	82,526.9	2
Status 2	521.2	< 1	23.9	< 1	2,800.7	< 1	5,611.2	< 1	0.0	0	246.2	< 1	208,222.4	4
Status 3	12,551.2	< 1	0.0	0	1,194.8	< 1	9,447.8	< 1	1,070.6	< 1	0.0	0	305,187.2	6
Status 4	0.0	0	0.0	0	65.7	< 1	372.0	< 1	767.3	< 1	4,447,349.6	88	4,449,984.7	88
Total	13,072.4	< 1	7,939.2	< 1	4,070.3	< 1	23,166.5	< 1	2,006.1	< 1	4,447,595.9	88	5,045,921.1	100

Common Name: MOLE SALAMANDER
Scientific Name: AMBYSTOMA TALPOIDEUM

ITIS TSN: 173604
NS EICode: AAAAA01120

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	18,689.5	1	0.0	0	0.0	0	4,262.2	< 1	0.0	0	1,717.7	< 1
Status 2	2,647.2	< 1	0.0	0	6,526.9	< 1	0.0	0	7,939.4	< 1	214.3	< 1	13,148.2	< 1
Status 3	0.0	0	209,979.1	11	135.5	< 1	0.0	0	0.0	0	0.0	0	2,831.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	37.6	< 1	0.0	0	105.2	< 1
Total	2,647.2	< 1	228,668.6	12	6,662.3	< 1	0.0	0	12,239.2	< 1	214.3	< 1	17,802.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	273.7	< 1	1.3	< 1	0.0	0	24,944.3	1
Status 2	623.0	< 1	0.0	0	6,619.5	< 1	840.9	< 1	0.0	0	0.0	0	38,559.2	2
Status 3	1,765.6	< 1	0.0	0	93.9	< 1	146.7	< 1	0.0	0	0.0	0	214,952.2	12
Status 4	0.0	0	0.0	0	0.0	0	529.6	< 1	360.2	< 1	1,570,246.7	85	1,571,279.3	85
Total	2,388.6	< 1	0.0	0	6,713.4	< 1	1,790.8	< 1	361.4	< 1	1,570,246.7	85	1,849,735.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: TIGER SALAMANDER
Scientific Name: *AMBYSTOMA TIGRINUM*

ITIS TSN: 173592
NS EICode: AAAAA01140

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	879.1	< 1	0.0	0	0.0	0
Status 2	82.4	< 1	0.0	0	0.0	0	0.0	0	94.0	< 1	71.3	< 1	2,015.8	2
Status 3	0.0	0	0.0	0	0.0	0	10,688.9	11	0.0	0	0.0	0	4,360.8	4
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	216.0	< 1
Total	82.4	< 1	0.0	0	0.0	0	10,688.9	11	973.1	< 1	71.3	< 1	6,592.6	6
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	55.2	< 1	0.0	0	0.0	0	934.3	< 1
Status 2	0.0	0	0.0	0	0.0	0	32.2	< 1	0.0	0	0.0	0	2,295.7	2
Status 3	209.7	< 1	0.0	0	6.8	< 1	0.7	< 1	2.2	< 1	0.0	0	15,269.0	15
Status 4	0.0	0	0.0	0	0.0	0	16.4	< 1	0.0	0	82,745.5	82	82,977.8	82
Total	209.7	< 1	0.0	0	6.8	< 1	104.5	< 1	2.2	< 1	82,745.5	82	101,476.8	100

Common Name: TWO-TOED AMPHIUMA
Scientific Name: *AMPHIUMA MEANS*

ITIS TSN: 173609
NS EICode: AAAAB01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	2.7	< 1	12,102.5	< 1	0.0	0	0.0	0	9,721.8	< 1	703.3	< 1	6,049.2	< 1
Status 2	110,946.2	7	0.0	0	56.6	< 1	0.0	0	4,258.4	< 1	799.7	< 1	53,649.6	3
Status 3	0.0	0	37,090.3	2	973.9	< 1	65,008.3	4	21.9	< 1	20,678.7	1	6,076.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,768.1	< 1	0.0	0	0.0	0	325.0	< 1
Total	110,948.9	7	49,192.7	3	1,030.5	< 1	66,776.4	4	14,002.0	< 1	22,181.7	1	66,100.3	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,850.3	< 1	15.7	< 1	6,616.9	< 1	101.8	< 1	0.0	0	43,164.1	3
Status 2	0.0	0	21.6	< 1	97.6	< 1	3,806.9	< 1	0.0	0	238.6	< 1	173,875.1	11
Status 3	7,917.8	< 1	0.0	0	310.9	< 1	8,002.0	< 1	67.8	< 1	0.0	0	146,147.9	9
Status 4	0.0	0	0.0	0	38.1	< 1	45.8	< 1	334.8	< 1	1,234,542.2	77	1,237,054.1	77
Total	7,917.8	< 1	7,871.9	< 1	462.2	< 1	18,471.6	1	504.4	< 1	1,234,780.8	77	1,600,241.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HELLBENDER

Scientific Name: *CRYPTOBRANCHUS ALLEGANIENSIS*

ITIS TSN: 173587

NS EICode: AAAAC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	88.9	< 1	1,019.4	9	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	8.4	< 1	0.0	0	0.3	< 1	0.0	0	0.0	0
Status 3	0.0	0	3,117.4	28	2.7	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	8.1	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,206.3	29	1,030.5	9	8.1	< 1	0.3	< 1	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,108.4	10
Status 2	2.2	< 1	0.0	0	7.5	< 1	0.0	0	0.0	0	0.0	0	18.3	< 1
Status 3	16.1	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,136.2	28
Status 4	0.0	0	0.0	0	0.0	0	1.6	< 1	0.0	0	6,791.4	61	6,801.1	61
Total	18.3	< 1	0.0	0	7.5	< 1	1.6	< 1	0.0	0	6,791.4	61	11,064.0	100

Common Name: GREEN SALAMANDER

Scientific Name: *ANEIDES AENEUS*

ITIS TSN: 173699

NS EICode: AAAAD01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,499.9	1	17,404.4	3	0.0	0	4.3	< 1	0.0	0	1,686.3	< 1
Status 2	0.0	0	0.0	0	1,880.6	< 1	0.0	0	2,701.6	< 1	0.0	0	7,113.1	1
Status 3	0.0	0	152,099.5	26	75.4	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	159,599.3	27	19,360.4	3	0.0	0	2,705.9	< 1	0.0	0	8,799.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	5.0	< 1	0.3	< 1	0.0	0	26,600.1	4
Status 2	575.5	< 1	0.0	0	5,039.2	< 1	611.6	< 1	0.0	0	0.0	0	17,921.5	3
Status 3	1,630.8	< 1	0.0	0	0.0	0	26.6	< 1	0.0	0	0.0	0	153,832.3	26
Status 4	0.0	0	0.0	0	0.0	0	442.4	< 1	0.0	0	394,631.3	67	395,073.7	67
Total	2,206.3	< 1	0.0	0	5,039.2	< 1	1,085.6	< 1	0.3	< 1	394,631.3	67	593,427.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SEEPAGE SALAMANDER
Scientific Name: DESMOGNATHUS AENEUS

ITIS TSN: 173636
NS EICode: AAAAD03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,393.4	2	1,328.8	2	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	23,121.6	40	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	18.1	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	24,515.0	42	1,328.8	2	18.1	< 1	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,722.1	5
Status 2	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0	0.0	0	2.3	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	23,121.6	40
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	32,617.5	56	32,635.6	56
Total	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0	32,617.5	56	58,481.6	100

Common Name: SOUTHERN DUSKY SALAMANDER
Scientific Name: DESMOGNATHUS AURICULATUS

ITIS TSN: 173637
NS EICode: AAAAD03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	394.7	< 1	0.0	0	0.0	0	919.6	< 1	8.6	< 1	543.3	< 1
Status 2	7,735.3	3	0.0	0	0.0	0	0.0	0	929.2	< 1	228.1	< 1	1,427.2	< 1
Status 3	0.0	0	2,533.8	1	2.9	< 1	6,462.5	3	13.5	< 1	335.1	< 1	806.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	92.3	< 1
Total	7,735.3	3	2,928.5	1	2.9	< 1	6,462.5	3	1,862.3	< 1	571.8	< 1	2,869.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	514.3	< 1	0.0	0	229.8	< 1	21.3	< 1	0.0	0	2,631.7	1
Status 2	0.0	0	0.0	0	8.8	< 1	287.3	< 1	0.0	0	25.0	< 1	10,640.9	5
Status 3	412.0	< 1	0.0	0	18.7	< 1	722.7	< 1	0.6	< 1	0.0	0	11,308.2	5
Status 4	0.0	0	0.0	0	2.5	< 1	0.0	0	6.8	< 1	209,805.5	89	209,907.0	90
Total	412.0	< 1	514.3	< 1	30.1	< 1	1,239.8	< 1	28.7	< 1	209,830.5	89	234,487.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: DUSKY SALAMANDER

Scientific Name: DESMOGNATHUS FUSCUS

ITIS TSN: 173633

NS EICode: AAAAD03040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,563.2	< 1	9,539.2	1	0.0	0	905.9	< 1	0.0	0	223.2	< 1
Status 2	1,294.3	< 1	0.0	0	1,589.2	< 1	0.0	0	1,703.1	< 1	683.7	< 1	5,695.6	< 1
Status 3	0.0	0	33,548.9	5	20.2	< 1	5,053.8	< 1	19.8	< 1	118.4	< 1	3,306.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,825.5	< 1	12.6	< 1	0.0	0	141.8	< 1
Total	1,294.3	< 1	36,112.1	5	11,148.6	2	6,879.2	1	2,641.4	< 1	802.1	< 1	9,367.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	17.3	< 1	352.4	< 1	1.3	< 1	0.0	0	13,602.5	2
Status 2	103.6	< 1	0.0	0	1,011.6	< 1	329.9	< 1	0.0	0	0.0	0	12,411.0	2
Status 3	434.5	< 1	0.0	0	506.4	< 1	455.5	< 1	146.8	< 1	0.0	0	43,610.9	7
Status 4	0.0	0	0.0	0	0.0	0	89.5	< 1	85.8	< 1	586,581.2	89	588,736.3	89
Total	538.1	< 1	0.0	0	1,535.3	< 1	1,227.3	< 1	233.8	< 1	586,581.2	89	658,360.6	100

Common Name: IMITATOR SALAMANDER

Scientific Name: DESMOGNATHUS IMITATOR

ITIS TSN: 173639

NS EICode: AAAAD03050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,967.6	4	29,997.8	44	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	938.6	1	0.0	0	0.0	0	0.0	0	408.2	< 1
Status 3	0.0	0	11,666.2	17	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	14,633.7	21	30,936.4	45	0.0	0	0.0	0	0.0	0	408.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	32,965.4	48
Status 2	0.0	0	0.0	0	0.0	0	197.4	< 1	0.0	0	0.0	0	1,544.1	2
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	11,666.2	17
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	22,672.8	33	22,672.8	33
Total	0.0	0	0.0	0	0.0	0	197.4	< 1	0.0	0	22,672.8	33	68,848.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SEAL SALAMANDER

ITIS TSN: 173640

Scientific Name: *DESMOGNATHUS MONTICOLA*

NS EICode: AAAAD03060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	624.0	1	2,547.5	5	0.0	0	130.0	<1	0.0	0	85.2	<1
Status 2	0.0	0	0.0	0	359.6	<1	0.0	0	190.6	<1	6.8	<1	309.0	<1
Status 3	0.0	0	8,386.7	16	5.2	<1	6.1	<1	0.0	0	1.7	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.3	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	9,010.6	17	2,912.3	6	29.4	<1	320.6	<1	8.6	<1	394.2	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	42.0	<1	0.0	0	0.0	0	3,428.7	7
Status 2	16.4	<1	0.0	0	177.2	<1	47.0	<1	0.0	0	0.0	0	1,106.6	2
Status 3	86.2	<1	0.0	0	0.0	0	76.7	<1	0.0	0	0.0	0	8,562.6	17
Status 4	0.0	0	0.0	0	0.0	0	8.2	<1	0.5	<1	38,742.1	75	38,774.2	75
Total	102.6	<1	0.0	0	177.2	<1	173.9	<1	0.5	<1	38,742.1	75	51,872.0	100

Common Name: BLACKBELLY SALAMANDER

ITIS TSN: 173642

Scientific Name: *DESMOGNATHUS QUADRAMACULATUS*

NS EICode: AAAAD03080

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	779.0	2	3,815.4	9	0.0	0	220.7	<1	0.0	0	21.9	<1
Status 2	0.0	0	0.0	0	307.3	<1	0.0	0	97.7	<1	1.4	<1	369.9	<1
Status 3	0.0	0	11,558.7	26	1.0	<1	0.0	0	0.0	0	1.1	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	1.6	<1	0.0	0	0.0	0	0.0	0
Total	0.0	0	12,337.7	28	4,123.6	9	1.6	<1	318.4	<1	2.5	<1	391.8	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	41.6	<1	0.0	0	0.0	0	4,878.5	11
Status 2	14.7	<1	0.0	0	192.9	<1	43.2	<1	0.0	0	0.0	0	1,027.1	2
Status 3	53.8	<1	0.0	0	0.0	0	102.7	<1	0.0	0	0.0	0	11,717.3	27
Status 4	0.0	0	0.0	0	0.0	0	12.9	<1	0.2	<1	26,430.4	60	26,445.1	60
Total	68.5	<1	0.0	0	192.9	<1	200.3	<1	0.2	<1	26,430.4	60	44,068.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PIGMY SALAMANDER
Scientific Name: *DESMOGNATHUS WRIGHTI*

ITIS TSN: 173645
NS EICode: AAAAD03100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,280.5	3	31,493.5	16	0.0	0	71.7	< 1	0.0	0	2.1	< 1
Status 2	0.0	0	0.0	0	2,889.7	1	0.0	0	486.5	< 1	1.2	< 1	796.1	< 1
Status 3	0.0	0	52,315.7	27	< 0.1	< 1	0.0	0	0.0	0	12.7	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	57,596.1	30	34,383.3	18	0.0	0	558.2	< 1	13.9	< 1	798.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	679.5	< 1	0.0	0	0.0	0	37,527.3	19
Status 2	30.7	< 1	0.0	0	2,266.9	1	260.6	< 1	0.0	0	0.0	0	6,731.7	3
Status 3	95.1	< 1	0.0	0	0.0	0	1,492.5	< 1	0.0	0	0.0	0	53,916.0	28
Status 4	0.0	0	0.0	0	0.0	0	34.3	< 1	3.4	< 1	96,004.1	49	96,041.8	49
Total	125.8	< 1	0.0	0	2,266.9	1	2,466.9	1	3.4	< 1	96,004.1	49	194,216.8	100

Common Name: SANTEETLAH DUSKY SALAMANDER
Scientific Name: *DESMOGNATHUS SANTEETLAH*

ITIS TSN: 173643
NS EICode: AAAAD03110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,459.9	5	8,454.8	31	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	119.5	< 1	0.0	0	0.0	0	0.0	0	111.0	< 1
Status 3	0.0	0	8,328.9	30	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	9,788.8	36	8,574.3	31	0.0	0	0.0	0	0.0	0	111.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9,914.7	36
Status 2	0.5	< 1	0.0	0	0.0	0	86.9	< 1	0.0	0	0.0	0	317.9	1
Status 3	1.6	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	8,330.5	30
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9,007.8	33	9,007.8	33
Total	2.1	< 1	0.0	0	0.0	0	86.9	< 1	0.0	0	9,007.8	33	27,570.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CAROLINA MOUNTAIN DUSKY SALAMANDER

ITIS TSN: 550253

Scientific Name: DESMOGNATHUS CAROLINENSIS

NS EICode: AAAAD03130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,788.0	3	13,529.9	13	0.0	0	171.0	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,115.1	1	0.0	0	575.7	< 1	0.0	0	731.4	< 1
Status 3	0.0	0	21,519.5	21	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	24,307.5	23	14,645.0	14	0.0	0	746.7	< 1	0.0	0	731.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	85.8	< 1	0.0	0	0.0	0	16,574.7	16
Status 2	0.0	0	0.0	0	2,214.4	2	102.4	< 1	0.0	0	0.0	0	4,739.0	5
Status 3	0.0	0	0.0	0	0.0	0	1,762.0	2	0.0	0	0.0	0	23,281.5	22
Status 4	0.0	0	0.0	0	0.0	0	79.7	< 1	0.0	0	60,086.7	57	60,166.4	57
Total	0.0	0	0.0	0	2,214.4	2	2,029.9	2	0.0	0	60,086.7	57	104,761.5	100

Common Name: OCOEE SALAMANDER

ITIS TSN: 550243

Scientific Name: DESMOGNATHUS OCOEE

NS EICode: AAAAD03140

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,017.8	5	30,832.1	21	0.0	0	0.0	0	0.0	0	254.5	< 1
Status 2	0.0	0	0.0	0	2,014.5	1	0.0	0	305.8	< 1	0.0	0	925.7	< 1
Status 3	0.0	0	43,292.1	29	9.8	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	39.2	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	51,309.9	34	32,856.4	22	39.2	< 1	305.8	< 1	0.0	0	1,180.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	6.5	< 1	0.0	0	0.0	0	39,110.9	26
Status 2	65.3	< 1	0.0	0	0.0	0	148.1	< 1	0.0	0	0.0	0	3,459.3	2
Status 3	202.2	< 1	0.0	0	0.0	0	12.6	< 1	0.0	0	0.0	0	43,516.7	29
Status 4	0.0	0	0.0	0	0.0	0	27.0	< 1	0.0	0	64,065.2	43	64,131.4	43
Total	267.6	< 1	0.0	0	0.0	0	194.1	< 1	0.0	0	64,065.2	43	150,218.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLUE RIDGE DUSKY SALAMANDER
Scientific Name: DESMOGNATHUS ORESTES

ITIS TSN: 550245
NS EICode: AAAAD03150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	197.4	< 1	0.0	0	0.0	0	251.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	744.0	2	0.0	0	107.7	< 1	1.1	< 1	398.7	1
Status 3	0.0	0	5,003.4	16	0.0	0	0.0	0	0.0	0	13.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	5,200.7	17	744.0	2	0.0	0	359.4	1	14.5	< 1	398.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	653.9	2	0.0	0	0.0	0	1,103.0	4
Status 2	0.0	0	0.0	0	0.0	0	9.9	< 1	0.0	0	0.0	0	1,261.4	4
Status 3	29.8	< 1	0.0	0	0.0	0	58.4	< 1	0.0	0	0.0	0	5,105.0	16
Status 4	0.0	0	0.0	0	0.0	0	2.8	< 1	1.3	< 1	23,812.9	76	23,817.0	76
Total	29.8	< 1	0.0	0	0.0	0	725.0	2	1.3	< 1	23,812.9	76	31,286.3	100

Common Name: JUNALUSKA SALAMANDER
Scientific Name: EURYCEA JUNALUSKA

ITIS TSN: 173690
NS EICode: AAAAD05020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	95.0	6	262.3	15	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	700.3	41	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	4.6	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	795.2	47	262.3	15	4.6	< 1	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	357.2	21
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	700.3	41
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	637.0	37	641.6	38
Total	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	637.0	37	1,699.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LONGTAIL SALAMANDER
Scientific Name: EURYCEA LONGICAUDA

ITIS TSN: 173687
NS EICode: AAAAD05040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	395.1	< 1	3,213.3	5	0.0	0	1,208.1	2	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	376.7	< 1	0.0	0	665.5	< 1	0.0	0	455.9	< 1
Status 3	0.0	0	12,766.1	19	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	80.9	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	13,161.2	20	3,589.9	5	80.9	< 1	1,873.5	3	0.0	0	455.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	47.6	< 1	0.0	0	0.0	0	4,864.1	7
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,498.1	2
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	12,766.1	19
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	48,199.0	72	48,279.9	72
Total	0.0	0	0.0	0	0.0	0	47.6	< 1	0.0	0	48,199.0	72	67,408.1	100

Common Name: DWARF SALAMANDER
Scientific Name: EURYCEA QUADRIDIGITATA

ITIS TSN: 173695
NS EICode: AAAAD05090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	12,040.3	1	0.0	0	0.0	0	2,001.7	< 1	0.0	0	5,722.0	< 1
Status 2	7,281.2	< 1	0.0	0	0.9	< 1	0.0	0	2,835.5	< 1	793.2	< 1	33,041.3	3
Status 3	0.0	0	34,413.4	3	3.8	< 1	32,867.6	3	21.9	< 1	19,021.6	2	3,065.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	87.8	< 1	0.0	0	0.0	0	230.9	< 1
Total	7,281.2	< 1	46,453.7	4	4.7	< 1	32,955.4	3	4,859.1	< 1	19,814.8	2	42,059.8	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	15.7	< 1	6,134.0	< 1	58.3	< 1	0.0	0	25,972.0	2
Status 2	0.0	0	16.5	< 1	84.9	< 1	699.1	< 1	0.0	0	0.0	0	44,752.5	4
Status 3	6,933.9	< 1	0.0	0	309.6	< 1	7,137.4	< 1	32.0	< 1	0.0	0	103,806.5	10
Status 4	0.0	0	0.0	0	37.1	< 1	45.0	< 1	0.0	0	889,009.6	84	889,410.4	84
Total	6,933.9	< 1	16.5	< 1	447.2	< 1	14,015.5	1	90.3	< 1	889,009.6	84	1,063,941.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN TWO-LINED SALAMANDER

ITIS TSN: 550246

Scientific Name: EURYCEA CIRRIGERA

NS EICode: AAAAD05140

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	219.7	< 1	0.0	0	0.0	0	531.4	< 1	0.0	0	603.4	< 1
Status 2	1,093.8	< 1	0.0	0	0.0	0	0.0	0	1,549.3	< 1	275.3	< 1	3,336.4	< 1
Status 3	0.0	0	2,096.3	< 1	6.5	< 1	4,914.8	< 1	14.0	< 1	201.9	< 1	1,756.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,559.0	< 1	7.5	< 1	0.0	0	109.0	< 1
Total	1,093.8	< 1	2,316.0	< 1	6.5	< 1	6,473.8	1	2,102.0	< 1	477.2	< 1	5,804.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	15.8	< 1	236.3	< 1	22.0	< 1	0.0	0	1,628.5	< 1
Status 2	0.0	0	0.0	0	301.1	< 1	210.2	< 1	0.0	0	0.0	0	6,766.1	1
Status 3	417.7	< 1	0.0	0	451.8	< 1	883.6	< 1	138.0	< 1	0.0	0	10,880.6	2
Status 4	0.0	0	0.0	0	4.6	< 1	24.6	< 1	49.1	< 1	481,877.4	96	483,631.0	96
Total	417.7	< 1	0.0	0	773.4	< 1	1,354.7	< 1	209.0	< 1	481,877.4	96	502,906.2	100

Common Name: BLUE RIDGE TWO-LINED SALAMANDER

ITIS TSN: 550248

Scientific Name: EURYCEA WILDERAE

NS EICode: AAAAD05150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,271.3	2	22,458.5	8	0.0	0	710.8	< 1	0.0	0	285.8	< 1
Status 2	0.0	0	0.0	0	2,613.7	< 1	0.0	0	860.6	< 1	2.9	< 1	1,730.4	< 1
Status 3	0.0	0	58,136.5	21	14.0	< 1	36.1	< 1	0.0	0	11.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.9	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	63,407.8	23	25,086.2	9	59.9	< 1	1,571.4	< 1	14.0	< 1	2,016.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	332.5	< 1	0.0	0	0.0	0	29,058.8	10
Status 2	92.6	< 1	0.0	0	1,312.5	< 1	253.7	< 1	0.0	0	0.0	0	6,866.3	2
Status 3	358.9	< 1	0.0	0	0.0	0	930.5	< 1	0.0	0	0.0	0	59,487.2	21
Status 4	0.0	0	0.0	0	0.0	0	51.7	< 1	3.2	< 1	184,334.2	66	184,412.9	66
Total	451.5	< 1	0.0	0	1,312.5	< 1	1,568.3	< 1	3.2	< 1	184,334.2	66	279,825.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: THREE-LINED SALAMANDER
Scientific Name: EURYCEA GUTTOLINEATA

ITIS TSN: 586362
NS EICode: AAAAD05290

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,824.0	< 1	17,991.0	2	0.0	0	1,044.4	< 1	0.0	0	740.5	< 1
Status 2	998.7	< 1	0.0	0	2,310.2	< 1	0.0	0	2,606.9	< 1	59.9	< 1	6,314.1	< 1
Status 3	0.0	0	57,374.5	7	24.1	< 1	3,770.6	< 1	0.0	0	141.2	< 1	2,661.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,876.4	< 1	13.8	< 1	0.0	0	49.4	< 1
Total	998.7	< 1	62,198.5	7	20,325.3	2	5,647.1	< 1	3,665.0	< 1	201.1	< 1	9,765.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	17.4	< 1	521.9	< 1	28.4	< 1	0.0	0	25,167.6	3
Status 2	92.6	< 1	0.0	0	1,614.4	< 1	412.1	< 1	0.0	0	0.0	0	14,408.9	2
Status 3	511.7	< 1	0.0	0	496.6	< 1	979.5	< 1	214.4	< 1	0.0	0	66,173.9	8
Status 4	0.0	0	0.0	0	1.8	< 1	80.4	< 1	97.0	< 1	748,548.1	87	750,666.9	88
Total	604.3	< 1	0.0	0	2,130.2	< 1	1,993.9	< 1	339.8	< 1	748,548.1	87	856,417.2	100

Common Name: SPRING SALAMANDER
Scientific Name: GYRINOPHILUS PORPHYRITICUS

ITIS TSN: 173715
NS EICode: AAAAD06020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,896.2	1	27,454.3	5	0.0	0	835.0	< 1	0.0	0	330.5	< 1
Status 2	2.5	< 1	0.0	0	3,357.5	< 1	0.0	0	1,295.1	< 1	37.7	< 1	2,252.6	< 1
Status 3	0.0	0	81,874.4	16	18.5	< 1	25.9	< 1	0.0	0	21.0	< 1	15.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	24.3	< 1	3.7	< 1	0.0	0	0.0	0
Total	2.5	< 1	88,770.5	18	30,830.2	6	50.2	< 1	2,133.8	< 1	58.7	< 1	2,598.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	541.6	< 1	0.0	0	0.0	0	36,057.6	7
Status 2	115.3	< 1	0.0	0	1,920.4	< 1	382.5	< 1	0.0	0	0.0	0	9,363.6	2
Status 3	444.3	< 1	0.0	0	0.0	0	1,020.5	< 1	0.0	0	0.0	0	83,419.7	17
Status 4	0.0	0	0.0	0	0.0	0	110.0	< 1	23.7	< 1	375,995.5	74	376,157.2	74
Total	559.6	< 1	0.0	0	1,920.4	< 1	2,054.6	< 1	23.7	< 1	375,995.5	74	504,998.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: FOUR-TOED SALAMANDER
Scientific Name: HEMIDACTYLUM SCUTATUM

ITIS TSN: 173678
NS EICode: AAAAD08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,566.4	< 1	9,591.7	< 1	0.0	0	4,411.1	< 1	0.0	0	2,590.1	< 1
Status 2	1,584.4	< 1	0.0	0	1,598.1	< 1	0.0	0	4,708.3	< 1	55.1	< 1	15,521.3	1
Status 3	0.0	0	33,996.2	3	20.4	< 1	5,637.8	< 1	0.0	0	122.5	< 1	5,248.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,943.0	< 1	13.0	< 1	0.0	0	137.2	< 1
Total	1,584.4	< 1	36,562.7	3	11,210.2	1	7,580.8	< 1	9,132.3	< 1	177.6	< 1	23,496.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	17.3	< 1	3,018.4	< 1	1.3	< 1	0.0	0	22,196.3	2
Status 2	104.0	< 1	0.0	0	1,054.6	< 1	682.1	< 1	0.0	0	0.0	0	25,307.9	2
Status 3	7,410.8	< 1	0.0	0	545.5	< 1	574.7	< 1	147.4	< 1	0.0	0	53,703.5	5
Status 4	0.0	0	0.0	0	0.0	0	121.5	< 1	86.7	< 1	966,200.9	90	968,502.2	91
Total	7,514.8	< 1	0.0	0	1,617.4	< 1	4,396.7	< 1	235.4	< 1	966,200.9	90	1,069,709.9	100

Common Name: SHOVELNOSE SALAMANDER
Scientific Name: LEUROGNATHUS MARMORATUS

ITIS TSN: 550398
NS EICode: AAAAD10010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	565.0	2	3,674.7	11	0.0	0	234.5	< 1	0.0	0	45.1	< 1
Status 2	0.0	0	0.0	0	221.0	< 1	0.0	0	91.5	< 1	1.6	< 1	418.7	1
Status 3	0.0	0	9,506.2	28	0.5	< 1	1.7	< 1	0.0	0	1.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.2	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	10,071.2	30	3,896.2	12	1.9	< 1	326.0	< 1	2.8	< 1	463.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	32.7	< 1	0.0	0	0.0	0	4,551.9	14
Status 2	0.0	0	0.0	0	205.7	< 1	31.1	< 1	0.0	0	0.0	0	969.6	3
Status 3	17.5	< 1	0.0	0	0.0	0	95.1	< 1	0.0	0	0.0	0	9,622.2	29
Status 4	0.0	0	0.0	0	0.0	0	8.8	< 1	0.0	0	18,310.6	55	18,319.6	55
Total	17.5	< 1	0.0	0	205.7	< 1	167.8	< 1	0.0	0	18,310.6	55	33,463.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: REDBACK SALAMANDER
Scientific Name: PLETHODON CINEREUS

ITIS TSN: 173649
NS EICode: AAAAD12020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	565.5	< 1	0.0	0	0.0	0	2,436.1	< 1	0.0	0	479.8	< 1
Status 2	1,271.3	< 1	0.0	0	6,472.5	< 1	0.0	0	6,265.4	< 1	97.7	< 1	15,773.6	< 1
Status 3	0.0	0	93,393.2	5	234.5	< 1	3,271.1	< 1	0.0	0	935.0	< 1	5,098.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	497.1	< 1	0.0	0	0.0	0	0.0	0
Total	1,271.3	< 1	93,958.7	5	6,707.1	< 1	3,768.1	< 1	8,701.5	< 1	1,032.7	< 1	21,351.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	405.4	< 1	8.4	< 1	1,814.9	< 1	0.0	0	0.0	0	5,710.0	< 1
Status 2	0.0	0	0.0	0	5,112.8	< 1	410.0	< 1	0.0	0	0.0	0	35,403.1	2
Status 3	726.3	< 1	0.0	0	993.2	< 1	3,132.0	< 1	1,866.9	< 1	0.0	0	109,650.1	6
Status 4	0.0	0	0.0	0	37.6	< 1	69.4	< 1	70.2	< 1	1,599,996.3	91	1,600,670.6	91
Total	726.3	< 1	405.4	< 1	6,152.0	< 1	5,426.2	< 1	1,937.1	< 1	1,599,996.3	91	1,751,433.8	100

Common Name: SLIMY SALAMANDER
Scientific Name: PLETHODON GLUTINOSUS

ITIS TSN: 173650
NS EICode: AAAAD12070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.4	< 1	26,986.4	< 1	52,228.3	2	0.0	0	5,688.8	< 1	233.5	< 1	1,840.1	< 1
Status 2	72,102.2	2	0.0	0	8,294.5	< 1	0.0	0	6,000.8	< 1	886.2	< 1	50,149.4	2
Status 3	0.0	0	188,547.1	6	1,244.9	< 1	58,407.7	2	24.8	< 1	19,185.6	< 1	6,825.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	559.2	< 1	14.6	< 1	0.0	0	368.3	< 1
Total	72,105.6	2	215,533.5	7	61,767.6	2	58,966.8	2	11,729.0	< 1	20,305.3	< 1	59,182.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,763.2	< 1	2.3	< 1	7,216.6	< 1	191.2	< 1	0.0	0	98,153.6	3
Status 2	149.4	< 1	20.2	< 1	5,024.3	< 1	2,628.9	< 1	0.0	0	59.6	< 1	145,315.4	5
Status 3	8,280.5	< 1	0.0	0	326.6	< 1	3,865.6	< 1	449.7	< 1	0.0	0	287,157.5	10
Status 4	0.0	0	0.0	0	27.5	< 1	210.4	< 1	443.4	< 1	2,420,056.2	82	2,421,679.5	82
Total	8,430.0	< 1	3,783.3	< 1	5,380.7	< 1	13,921.5	< 1	1,084.3	< 1	2,420,115.8	82	2,952,306.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: JORDAN'S SALAMANDER
Scientific Name: PLETHODON JORDANI

ITIS TSN: 173660
NS EICode: AAAAD12090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,585.6	3	52,098.3	10	0.0	0	374.1	< 1	0.0	0	90.7	< 1
Status 2	0.0	0	0.0	0	7,171.5	1	0.0	0	544.8	< 1	7.8	< 1	2,212.7	< 1
Status 3	0.0	0	139,927.6	28	19.4	< 1	0.0	0	0.0	0	45.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	154,513.2	31	59,289.2	12	0.0	0	918.9	< 1	53.2	< 1	2,303.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,171.4	< 1	1.2	< 1	0.0	0	68,321.3	14
Status 2	183.8	< 1	0.0	0	4,413.3	< 1	570.2	< 1	0.0	0	0.0	0	15,104.1	3
Status 3	507.0	< 1	0.0	0	0.0	0	2,107.9	< 1	0.0	0	0.0	0	142,607.3	28
Status 4	0.0	0	0.0	0	0.0	0	122.4	< 1	7.1	< 1	279,086.2	55	279,215.7	55
Total	690.8	< 1	0.0	0	4,413.3	< 1	3,971.8	< 1	8.3	< 1	279,086.2	55	505,248.4	100

Common Name: RAVINE SALAMANDER
Scientific Name: PLETHODON RICHMONDI

ITIS TSN: 173667
NS EICode: AAAAD12150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,195.4	< 1	0.0	0	0.0	0	4,884.8	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	9,611.7	2	0.0	0	1,948.1	< 1	22.7	< 1	5,727.0	< 1
Status 3	0.0	0	76,891.4	12	0.0	0	161.1	< 1	0.0	0	60.6	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	80,086.8	13	9,611.7	2	161.1	< 1	6,833.0	1	83.3	< 1	5,727.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,582.4	< 1	0.0	0	0.0	0	9,662.6	2
Status 2	0.0	0	0.0	0	4,795.1	< 1	127.5	< 1	0.0	0	0.0	0	22,232.2	4
Status 3	584.5	< 1	0.0	0	0.0	0	2,392.3	< 1	0.0	0	0.0	0	80,089.8	13
Status 4	0.0	0	0.0	0	0.0	0	67.1	< 1	40.6	< 1	520,419.1	82	520,526.8	82
Total	584.5	< 1	0.0	0	4,795.1	< 1	4,169.3	< 1	40.6	< 1	520,419.1	82	632,511.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN REDBACK SALAMANDER
Scientific Name: PLETHODON SERRATUS

ITIS TSN: 173668
NS EICode: AAAAD12160

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,425.2	4	27,748.6	16	0.0	0	0.0	0	0.0	0	204.4	< 1
Status 2	0.0	0	0.0	0	616.1	< 1	0.0	0	508.8	< 1	0.0	0	419.4	< 1
Status 3	0.0	0	61,125.4	36	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	67.5	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	67,550.6	40	28,364.7	17	67.5	< 1	508.8	< 1	0.0	0	623.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	6.3	< 1	0.0	0	0.0	0	34,384.5	20
Status 2	6.3	< 1	0.0	0	0.0	0	207.9	< 1	0.0	0	0.0	0	1,758.5	1
Status 3	54.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	61,179.6	36
Status 4	0.0	0	0.0	0	0.0	0	14.7	< 1	0.0	0	72,474.0	43	72,556.2	43
Total	60.5	< 1	0.0	0	0.0	0	228.9	< 1	0.0	0	72,474.0	43	169,878.7	100

Common Name: WEHRLE'S SALAMANDER
Scientific Name: PLETHODON WEHRLEI

ITIS TSN: 173674
NS EICode: AAAAD12220

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	816.5	2	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,325.3	3	0.0	0	668.4	2	38.3	< 1	480.2	1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	0.0	0	1,325.3	3	0.0	0	1,484.9	4	38.3	< 1	480.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	31.7	< 1	0.0	0	0.0	0	848.2	2
Status 2	0.0	0	0.0	0	0.0	0	6.2	< 1	0.0	0	0.0	0	2,518.4	6
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	1.8	< 1	0.0	0	36,543.9	92	36,545.7	92
Total	0.0	0	0.0	0	0.0	0	39.7	< 1	0.0	0	36,543.9	92	39,912.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WELLER'S SALAMANDER

Scientific Name: PLETHODON WELLERI

ITIS TSN: 173675

NS EICode: AAAAD12230

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,337.6	2	0.0	0	116.4	< 1	1.2	< 1	140.0	< 1
Status 3	0.0	0	13,347.7	24	0.0	0	0.0	0	0.0	0	12.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	13,347.7	24	1,337.6	2	0.0	0	116.4	< 1	14.0	< 1	140.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	584.6	1	0.0	0	0.0	0	584.6	1
Status 2	0.0	0	0.0	0	1,363.0	2	12.2	< 1	0.0	0	0.0	0	2,970.3	5
Status 3	0.0	0	0.0	0	0.0	0	1,794.7	3	0.0	0	0.0	0	15,155.2	27
Status 4	0.0	0	0.0	0	0.0	0	29.5	< 1	0.0	0	37,719.9	67	37,749.4	67
Total	0.0	0	0.0	0	1,363.0	2	2,421.1	4	0.0	0	37,719.9	67	56,459.5	100

Common Name: YONAHLOSSEE SALAMANDER

Scientific Name: PLETHODON YONAHLOSSEE

ITIS TSN: 173676

NS EICode: AAAAD12240

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	163.7	< 1	0.0	0	0.0	0	241.7	< 1	0.0	0	43.4	< 1
Status 2	0.0	0	0.0	0	679.4	2	0.0	0	63.9	< 1	0.7	< 1	412.9	1
Status 3	0.0	0	5,452.5	18	3.9	< 1	0.0	0	0.0	0	3.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	5,616.2	18	683.3	2	0.0	0	305.6	1	4.5	< 1	456.3	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	128.6	< 1	0.0	0	0.0	0	577.4	2
Status 2	15.2	< 1	0.0	0	464.2	2	15.7	< 1	0.0	0	0.0	0	1,652.0	5
Status 3	79.5	< 1	0.0	0	0.0	0	307.4	1	0.0	0	0.0	0	5,846.9	19
Status 4	0.0	0	0.0	0	0.0	0	13.6	< 1	0.9	< 1	22,285.6	73	22,300.1	73
Total	94.6	< 1	0.0	0	464.2	2	465.2	2	0.9	< 1	22,285.6	73	30,376.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: TELLICO SALAMANDER
Scientific Name: PLETHODON AUREOLUS

ITIS TSN: 208280
NS EICode: AAAAD12250

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	266.1	1	660.1	3	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	6,188.9	24	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	6.7	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	6,455.0	25	660.1	3	6.7	< 1	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	926.2	4
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	6,188.9	24
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	18,199.4	72	18,206.1	72
Total	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	18,199.4	72	25,321.1	100

Common Name: SOUTHERN APPALACHIAN SALAMANDER
Scientific Name: PLETHODON TEYAHALEE

ITIS TSN: 208294
NS EICode: AAAAD12300

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	19,188.8	2	94,135.3	10	0.0	0	0.0	0	0.0	0	1,792.2	< 1
Status 2	0.0	0	0.0	0	4,269.2	< 1	0.0	0	2,798.5	< 1	0.0	0	5,871.6	< 1
Status 3	0.0	0	252,974.9	28	75.4	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	61.3	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	272,163.7	30	98,480.0	11	61.3	< 1	2,798.5	< 1	0.0	0	7,663.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	16.6	< 1	0.3	< 1	0.0	0	115,133.1	13
Status 2	577.6	< 1	0.0	0	6,813.2	< 1	785.9	< 1	0.0	0	0.0	0	21,116.0	2
Status 3	1,633.6	< 1	0.0	0	0.0	0	29.2	< 1	0.0	0	0.0	0	254,713.1	28
Status 4	0.0	0	0.0	0	0.0	0	449.0	< 1	0.0	0	521,685.7	57	522,196.0	57
Total	2,211.2	< 1	0.0	0	6,813.2	< 1	1,280.6	< 1	0.3	< 1	521,685.7	57	913,158.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN ZIGZAG SALAMANDER
Scientific Name: PLETHODON VENTRALIS

ITIS TSN: 173653
NS EICode: AAAAD12370

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,777.7	2	24,627.8	4	0.0	0	0.0	0	0.0	0	606.5	< 1
Status 2	0.0	0	0.0	0	3,001.1	< 1	0.0	0	1.4	< 1	0.0	0	5,088.5	< 1
Status 3	0.0	0	143,336.6	25	62.1	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	154,114.3	27	27,690.9	5	0.0	0	1.4	< 1	0.0	0	5,695.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	1.2	< 1	0.0	0	36,013.1	6
Status 2	517.5	< 1	0.0	0	6,306.5	1	527.0	< 1	0.0	0	0.0	0	15,441.9	3
Status 3	1,437.3	< 1	0.0	0	0.0	0	2,168.5	< 1	0.0	0	0.0	0	147,004.5	25
Status 4	0.0	0	0.0	0	0.0	0	336.2	< 1	0.0	0	381,753.5	66	382,089.7	66
Total	1,954.8	< 1	0.0	0	6,306.5	1	3,031.6	< 1	1.2	< 1	381,753.5	66	580,549.2	100

Common Name: MUD SALAMANDER
Scientific Name: PSEUDOTRITON MONTANUS

ITIS TSN: 173682
NS EICode: AAAAD13010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	673.1	< 1	163.6	< 1	0.0	0	1,334.3	< 1	10.5	< 1	648.3	< 1
Status 2	11,322.9	2	0.0	0	403.6	< 1	0.0	0	2,000.9	< 1	264.4	< 1	4,393.4	< 1
Status 3	0.0	0	6,746.9	1	70.1	< 1	9,630.2	2	14.0	< 1	426.9	< 1	2,620.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,499.5	< 1	7.5	< 1	0.0	0	144.7	< 1
Total	11,322.9	2	7,420.0	1	637.3	< 1	11,129.7	2	3,356.6	< 1	701.8	< 1	7,806.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	609.2	< 1	14.0	< 1	368.2	< 1	25.6	< 1	0.0	0	3,846.7	< 1
Status 2	32.9	< 1	0.0	0	425.3	< 1	431.7	< 1	0.0	0	28.1	< 1	19,303.1	3
Status 3	571.2	< 1	0.0	0	441.5	< 1	943.3	< 1	117.0	< 1	0.0	0	21,581.4	4
Status 4	0.0	0	0.0	0	6.7	< 1	28.4	< 1	54.1	< 1	528,909.0	92	530,649.9	92
Total	604.1	< 1	609.2	< 1	887.4	< 1	1,771.7	< 1	196.7	< 1	528,937.1	92	575,381.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED SALAMANDER
Scientific Name: PSEUDOTRITON RUBER

ITIS TSN: 173680
NS EICode: AAAAD13020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,983.9	< 1	16,092.5	< 1	0.0	0	3,395.7	< 1	0.0	0	440.0	< 1
Status 2	2,266.8	< 1	0.0	0	2,901.2	< 1	0.0	0	5,481.4	< 1	951.8	< 1	14,521.0	< 1
Status 3	0.0	0	69,306.3	3	47.3	< 1	13,118.5	< 1	31.7	< 1	308.1	< 1	7,866.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,363.8	< 1	22.5	< 1	0.0	0	369.2	< 1
Total	2,266.8	< 1	73,290.2	3	19,041.1	< 1	15,482.3	< 1	8,931.2	< 1	1,259.9	< 1	23,196.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	22.9	< 1	714.2	< 1	1.4	< 1	0.0	0	24,650.6	1
Status 2	223.8	< 1	0.0	0	1,857.5	< 1	745.8	< 1	0.0	0	0.0	0	28,949.4	1
Status 3	2,026.9	< 1	0.0	0	1,035.4	< 1	784.3	< 1	449.6	< 1	0.0	0	94,974.8	4
Status 4	0.0	0	0.0	0	0.0	0	243.6	< 1	236.1	< 1	2,004,371.0	93	2,007,606.2	93
Total	2,250.7	< 1	0.0	0	2,915.7	< 1	2,488.0	< 1	687.1	< 1	2,004,371.0	93	2,156,180.9	100

Common Name: MANY-LINED SALAMANDER
Scientific Name: STEREOCHILUS MARGINATUS

ITIS TSN: 173647
NS EICode: AAAAD14010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	12,063.0	< 1	0.0	0	0.0	0	9,479.2	< 1	694.7	< 1	6,039.5	< 1
Status 2	99,392.3	7	0.0	0	0.9	< 1	0.0	0	3,911.0	< 1	793.2	< 1	48,338.0	3
Status 3	0.0	0	35,658.0	3	199.6	< 1	51,387.3	4	21.9	< 1	20,280.3	1	3,370.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	253.0	< 1
Total	99,393.8	7	47,721.0	3	200.5	< 1	51,388.2	4	13,412.1	< 1	21,768.2	2	58,000.5	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,928.8	< 1	0.0	0	6,535.2	< 1	63.4	< 1	0.0	0	41,805.2	3
Status 2	0.0	0	16.5	< 1	77.3	< 1	3,539.1	< 1	0.0	0	235.4	< 1	156,303.6	11
Status 3	7,207.7	< 1	0.0	0	54.1	< 1	7,930.0	< 1	54.6	< 1	0.0	0	126,163.6	9
Status 4	0.0	0	0.0	0	37.5	< 1	45.6	< 1	317.1	< 1	1,100,813.5	77	1,101,467.6	77
Total	7,207.7	< 1	6,945.3	< 1	168.9	< 1	18,049.9	1	435.1	< 1	1,101,048.8	77	1,425,740.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NEUSE RIVER WATERDOG

Scientific Name: *NECTURUS LEWISI*

ITIS TSN: 173627

NS EICode: AAAAE01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	20.6	< 1	0.0	0	0.0	0	70.8	< 1	0.0	0	571.4	< 1
Status 2	151.4	< 1	0.0	0	0.0	0	0.0	0	346.8	< 1	691.4	< 1	196.5	< 1
Status 3	0.0	0	821.8	< 1	0.0	0	197.0	< 1	21.4	< 1	300.3	< 1	1,648.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,703.2	< 1	0.0	0	0.0	0	88.3	< 1
Total	151.4	< 1	842.4	< 1	0.0	0	1,900.2	< 1	439.0	< 1	991.7	< 1	2,505.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	15.7	< 1	7.2	< 1	0.0	0	0.0	0	685.7	< 1
Status 2	0.0	0	0.0	0	36.6	< 1	57.2	< 1	0.0	0	0.0	0	1,479.8	< 1
Status 3	10.9	< 1	0.0	0	228.6	< 1	122.7	< 1	75.7	< 1	0.0	0	3,427.3	2
Status 4	0.0	0	0.0	0	12.9	< 1	0.0	0	0.0	0	191,710.6	96	193,514.9	97
Total	10.9	< 1	0.0	0	293.8	< 1	187.0	< 1	75.7	< 1	191,710.6	96	199,107.7	100

Common Name: MUDPUPPY

Scientific Name: *NECTURUS MACULOSUS*

ITIS TSN: 173630

NS EICode: AAAAE01040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.7	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	9.5	< 1	2.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	9.6	< 1	2.9	< 1	0.0	0	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	0.3	< 1
Status 2	0.8	< 1	0.0	0	35.8	3	0.0	0	0.0	0	0.0	0	37.3	4
Status 3	35.3	3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	46.9	5
Status 4	0.0	0	0.0	0	0.0	0	0.5	< 1	0.0	0	938.4	92	939.0	92
Total	36.1	4	0.0	0	35.8	3	0.5	< 1	< 0.1	< 1	938.4	92	1,023.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: DWARF WATERDOG
Scientific Name: NECTURUS PUNCTATUS

ITIS TSN: 173625
NS EICode: AAAAE01050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	86.1	< 1	0.0	0	0.0	0	1,812.6	< 1	130.1	< 1	3,927.7	< 1
Status 2	17,905.5	3	0.0	0	0.9	< 1	0.0	0	2,309.1	< 1	678.4	< 1	10,174.4	1
Status 3	0.0	0	2,356.9	< 1	82.2	< 1	10,749.4	2	21.9	< 1	1,084.9	< 1	2,634.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,704.1	< 1	0.0	0	0.0	0	147.2	< 1
Total	17,905.5	3	2,443.1	< 1	83.1	< 1	12,453.5	2	4,143.6	< 1	1,893.3	< 1	16,883.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	806.2	< 1	15.7	< 1	1,107.0	< 1	35.5	< 1	0.0	0	7,920.8	1
Status 2	0.0	0	6.7	< 1	194.2	< 1	967.1	< 1	0.0	0	41.6	< 1	32,277.9	5
Status 3	1,710.7	< 1	0.0	0	293.0	< 1	7,141.1	1	103.1	< 1	0.0	0	26,177.6	4
Status 4	0.0	0	0.0	0	16.4	< 1	29.3	< 1	246.8	< 1	615,832.5	90	617,976.2	90
Total	1,710.7	< 1	812.9	< 1	519.2	< 1	9,244.5	1	385.4	< 1	615,874.1	90	684,352.4	100

Common Name: EASTERN NEWT
Scientific Name: NOTOPHTHALMUS VIRIDESCENS

ITIS TSN: 173615
NS EICode: AAAAF01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	35,846.7	< 1	88,462.0	1	0.0	0	18,552.0	< 1	911.7	< 1	8,440.7	< 1
Status 2	117,897.1	2	0.0	0	14,573.6	< 1	0.0	0	17,256.2	< 1	1,289.3	< 1	76,085.6	1
Status 3	0.0	0	392,608.4	7	1,426.5	< 1	77,196.9	1	32.5	< 1	23,249.3	< 1	10,826.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,230.3	< 1	36.2	< 1	0.0	0	469.5	< 1
Total	117,901.9	2	428,455.2	7	104,462.1	2	79,427.2	1	35,876.8	< 1	25,450.3	< 1	95,822.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,364.8	< 1	21.4	< 1	9,176.4	< 1	202.9	< 1	0.0	0	169,983.4	3
Status 2	624.8	< 1	21.9	< 1	7,978.1	< 1	5,722.7	< 1	0.0	0	308.9	< 1	241,758.0	4
Status 3	11,238.4	< 1	0.0	0	1,200.8	< 1	13,179.7	< 1	1,031.9	< 1	0.0	0	531,991.2	9
Status 4	0.0	0	0.0	0	47.5	< 1	645.0	< 1	840.8	< 1	5,051,454.8	84	5,055,724.1	84
Total	11,863.2	< 1	8,386.7	< 1	9,247.8	< 1	28,723.9	< 1	2,075.5	< 1	5,051,763.6	84	5,999,456.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LESSER SIREN
Scientific Name: *SIREN INTERMEDIA*

ITIS TSN: 173736
NS EICode: AAAAG02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.3	< 1	11,862.1	< 1	0.0	0	0.0	0	1,707.0	< 1	493.6	< 1	3,940.8	< 1
Status 2	73,234.4	6	0.0	0	0.9	< 1	0.0	0	2,454.1	< 1	707.3	< 1	40,048.0	3
Status 3	0.0	0	32,480.0	3	470.6	< 1	55,463.1	5	21.9	< 1	17,918.1	1	5,301.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	372.5	< 1
Total	73,234.7	6	44,342.1	4	471.5	< 1	55,464.0	5	4,183.0	< 1	19,119.0	2	49,662.7	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,508.9	< 1	0.0	0	6,377.5	< 1	120.5	< 1	0.0	0	28,010.7	2
Status 2	0.0	0	19.8	< 1	58.5	< 1	2,378.6	< 1	0.0	0	132.8	< 1	119,034.5	10
Status 3	7,193.3	< 1	0.0	0	58.0	< 1	9,133.7	< 1	53.7	< 1	0.0	0	128,093.7	11
Status 4	0.0	0	0.0	0	28.7	< 1	45.7	< 1	264.2	< 1	927,697.1	77	928,409.1	77
Total	7,193.3	< 1	3,528.7	< 1	145.2	< 1	17,935.5	1	438.5	< 1	927,829.9	77	1,203,548.0	100

Common Name: GREATER SIREN
Scientific Name: *SIREN LACERTINA*

ITIS TSN: 173735
NS EICode: AAAAG02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.3	< 1	11,862.1	< 1	0.0	0	0.0	0	4,191.8	< 1	544.3	< 1	4,150.8	< 1
Status 2	75,994.6	6	0.0	0	0.9	< 1	0.0	0	3,237.5	< 1	707.3	< 1	47,506.1	4
Status 3	0.0	0	32,593.2	2	470.6	< 1	56,733.4	4	21.9	< 1	18,099.3	1	6,920.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,699.3	< 1	0.0	0	0.0	0	372.5	< 1
Total	75,994.8	6	44,455.3	3	471.5	< 1	58,432.7	4	7,451.2	< 1	19,350.9	1	58,949.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,518.1	< 1	15.7	< 1	6,407.4	< 1	120.5	< 1	0.0	0	30,811.0	2
Status 2	0.0	0	19.8	< 1	81.7	< 1	2,421.1	< 1	0.0	0	132.8	< 1	130,101.8	10
Status 3	7,195.8	< 1	0.0	0	296.3	< 1	9,134.2	< 1	53.7	< 1	0.0	0	131,518.6	10
Status 4	0.0	0	0.0	0	28.7	< 1	45.7	< 1	264.4	< 1	1,054,495.0	78	1,056,905.6	78
Total	7,195.8	< 1	3,537.9	< 1	422.4	< 1	18,008.4	1	438.7	< 1	1,054,627.8	78	1,349,337.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN TOAD
Scientific Name: BUFO AMERICANUS

ITIS TSN: 173473
NS EICode: AAABB01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	29,088.1	< 1	111,174.1	1	0.0	0	22,075.2	< 1	592.4	< 1	2,750.6	< 1
Status 2	18,999.5	< 1	0.0	0	19,826.3	< 1	0.0	0	22,500.2	< 1	1,454.0	< 1	48,128.8	< 1
Status 3	0.0	0	407,658.3	4	192.7	< 1	69,841.5	< 1	49.7	< 1	2,306.2	< 1	31,697.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,411.4	< 1	46.6	< 1	0.0	0	1,361.8	< 1
Total	18,999.5	< 1	436,746.4	5	131,193.1	1	72,252.9	< 1	44,671.7	< 1	4,352.5	< 1	83,939.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	28.9	< 1	13.7	< 1	3,994.6	< 1	1.4	< 1	0.0	0	169,718.9	2
Status 2	718.7	< 1	0.0	0	9,683.4	< 1	2,146.5	< 1	0.0	0	246.1	< 1	123,703.3	1
Status 3	9,317.1	< 1	0.0	0	2,231.7	< 1	5,741.8	< 1	3,275.5	< 1	0.0	0	532,312.4	6
Status 4	0.0	0	0.0	0	0.0	0	838.3	< 1	1,624.1	< 1	8,766,889.9	91	8,773,172.1	91
Total	10,035.8	< 1	28.9	< 1	11,928.8	< 1	12,721.1	< 1	4,901.0	< 1	8,767,136.0	91	9,598,906.7	100

Common Name: OAK TOAD
Scientific Name: BUFO QUERCICUS

ITIS TSN: 173479
NS EICode: AAABB01130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.2	< 1	95.7	< 1	0.0	0	0.0	0	554.1	< 1	3.8	< 1	2.6	< 1
Status 2	7,259.9	2	0.0	0	191.5	< 1	0.0	0	509.0	< 1	23.8	< 1	2,571.6	< 1
Status 3	0.0	0	2,900.2	< 1	838.9	< 1	54,608.3	13	0.0	0	378.9	< 1	17,044.0	4
Status 4	0.0	0	0.0	0	0.0	0	8.2	< 1	0.0	0	0.0	0	537.1	< 1
Total	7,263.1	2	2,995.8	< 1	1,030.4	< 1	54,616.5	13	1,063.1	< 1	406.4	< 1	20,155.3	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	747.4	< 1	0.0	0	324.0	< 1	51.3	< 1	0.0	0	1,782.0	< 1
Status 2	0.0	0	2.1	< 1	24.0	< 1	305.4	< 1	0.0	0	3.0	< 1	10,890.2	3
Status 3	2,944.0	< 1	0.0	0	149.7	< 1	499.2	< 1	23.2	< 1	0.0	0	79,386.4	19
Status 4	0.0	0	0.0	0	6.3	< 1	5.0	< 1	20.1	< 1	330,895.3	78	331,472.0	78
Total	2,944.0	< 1	749.4	< 1	180.0	< 1	1,133.6	< 1	94.6	< 1	330,898.2	78	423,530.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN TOAD
Scientific Name: BUFO TERRESTRIS

ITIS TSN: 173475
NS EICode: AAABB01160

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	14,659.5	< 1	0.0	0	0.0	0	9,564.9	< 1	692.6	< 1	6,071.1	< 1
Status 2	114,500.3	2	0.0	0	2,494.9	< 1	0.0	0	8,949.2	< 1	1,221.7	< 1	56,883.8	< 1
Status 3	0.0	0	65,145.5	1	4,516.7	< 1	133,491.6	2	51.3	< 1	33,316.5	< 1	23,536.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	57.8	< 1	0.4	< 1	0.0	0	1,603.9	< 1
Total	114,525.5	2	79,805.0	1	7,011.6	< 1	133,549.4	2	18,565.8	< 1	35,230.7	< 1	88,095.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,427.8	< 1	11.7	< 1	7,965.5	< 1	243.2	< 1	0.0	0	47,661.5	< 1
Status 2	0.0	0	33.1	< 1	355.6	< 1	5,501.7	< 1	0.0	0	270.0	< 1	190,210.3	3
Status 3	14,358.6	< 1	0.0	0	511.2	< 1	9,494.5	< 1	2,508.8	< 1	0.0	0	286,931.5	5
Status 4	0.0	0	0.0	0	123.7	< 1	128.3	< 1	668.1	< 1	5,567,606.5	91	5,570,188.6	91
Total	14,358.6	< 1	8,460.9	< 1	1,002.2	< 1	23,090.0	< 1	3,420.0	< 1	5,567,876.5	91	6,094,991.9	100

Common Name: FOWLER'S TOAD
Scientific Name: BUFO FOWLERI

ITIS TSN: 173478
NS EICode: AAABB01210

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	36,649.6	< 1	89,859.5	< 1	0.0	0	20,006.4	< 1	589.8	< 1	4,863.0	< 1
Status 2	113,660.1	1	0.0	0	18,730.1	< 1	0.0	0	22,866.1	< 1	1,385.7	< 1	82,887.3	< 1
Status 3	0.0	0	416,154.3	4	4,838.2	< 1	99,408.4	< 1	49.2	< 1	34,229.9	< 1	16,233.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,125.8	< 1	41.7	< 1	0.0	0	1,194.2	< 1
Total	113,685.3	1	452,804.0	4	113,427.8	1	101,534.2	< 1	42,963.4	< 1	36,205.4	< 1	105,177.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,074.0	< 1	11.4	< 1	6,791.0	< 1	234.5	< 1	0.0	0	167,104.4	2
Status 2	679.4	< 1	31.6	< 1	8,581.8	< 1	6,714.5	< 1	0.0	0	261.4	< 1	255,797.9	2
Status 3	15,321.6	< 1	0.0	0	1,875.6	< 1	6,281.8	< 1	4,174.6	< 1	0.0	0	598,566.9	5
Status 4	0.0	0	0.0	0	116.2	< 1	772.0	< 1	1,528.5	< 1	9,877,468.6	91	9,883,247.0	91
Total	16,001.0	< 1	8,105.6	< 1	10,585.0	< 1	20,559.2	< 1	5,937.6	< 1	9,877,730.0	91	10,904,716.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN CRICKET FROG

Scientific Name: *ACRIS CREPITANS*

ITIS TSN: 173520

NS EICode: AAABC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	641.3	< 1	780.4	< 1	0.0	0	4,199.3	< 1	256.1	< 1	3,069.6	< 1
Status 2	10,652.5	< 1	0.0	0	342.9	< 1	0.0	0	2,126.7	< 1	805.1	< 1	11,245.8	< 1
Status 3	0.0	0	10,434.7	< 1	28.3	< 1	9,247.2	< 1	26.6	< 1	413.1	< 1	5,657.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,894.2	< 1	13.8	< 1	0.0	0	314.0	< 1
Total	10,652.5	< 1	11,076.0	< 1	1,151.6	< 1	11,141.5	< 1	6,366.4	< 1	1,474.4	< 1	20,287.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4.0	< 1	6.5	< 1	1,094.8	< 1	1.4	< 1	0.0	0	10,053.4	< 1
Status 2	102.1	< 1	0.0	0	651.2	< 1	368.3	< 1	0.0	0	0.0	0	26,294.6	2
Status 3	767.7	< 1	0.0	0	444.5	< 1	6,810.0	< 1	607.8	< 1	0.0	0	34,437.6	2
Status 4	0.0	0	0.0	0	0.0	0	105.4	< 1	462.2	< 1	1,357,073.6	95	1,359,863.2	95
Total	869.8	< 1	4.0	< 1	1,102.2	< 1	8,378.5	< 1	1,071.4	< 1	1,357,073.6	95	1,430,648.8	100

Common Name: SOUTHERN CRICKET FROG

Scientific Name: *ACRIS GRYPILLUS*

ITIS TSN: 173518

NS EICode: AAABC01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.6	< 1	11,884.1	< 1	0.0	0	0.0	0	4,938.8	< 1	256.1	< 1	4,603.1	< 1
Status 2	67,823.8	4	0.0	0	4.9	< 1	0.0	0	3,798.8	< 1	750.8	< 1	45,288.0	3
Status 3	0.0	0	32,248.8	2	143.2	< 1	44,978.9	3	26.6	< 1	17,962.6	1	3,367.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	13.7	< 1	0.4	< 1	0.0	0	385.6	< 1
Total	67,824.5	4	44,132.9	3	148.1	< 1	44,992.5	3	8,764.7	< 1	18,969.5	1	53,644.0	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,543.4	< 1	6.5	< 1	6,362.6	< 1	64.7	< 1	0.0	0	30,659.9	2
Status 2	0.0	0	18.5	< 1	127.8	< 1	1,916.9	< 1	0.0	0	69.7	< 1	119,799.1	7
Status 3	7,083.3	< 1	0.0	0	326.8	< 1	7,625.7	< 1	506.5	< 1	0.0	0	114,269.7	6
Status 4	0.0	0	0.0	0	42.4	< 1	61.8	< 1	369.5	< 1	1,496,681.2	85	1,497,554.5	85
Total	7,083.3	< 1	2,561.9	< 1	503.5	< 1	15,967.0	< 1	940.7	< 1	1,496,750.9	85	1,762,283.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PINE BARRENS TREEFROG

Scientific Name: *HYLA ANDERSONII*

ITIS TSN: 173509

NS EICode: AAABC02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,081.3	2	0.0	0	0.0	0	1,531.0	< 1	0.0	0	0.0	0
Status 2	264.7	< 1	0.0	0	0.0	0	0.0	0	360.5	< 1	19.7	< 1	28,116.7	5
Status 3	0.0	0	18,645.8	3	0.0	0	72,428.0	13	0.0	0	16,594.7	3	19,093.6	4
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	608.0	< 1
Total	264.7	< 1	27,727.1	5	0.0	0	72,428.0	13	1,891.5	< 1	16,614.5	3	47,818.4	9
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	203.1	< 1	79.1	< 1	0.0	0	10,894.5	2
Status 2	0.0	0	0.0	0	35.7	< 1	177.3	< 1	0.0	0	0.0	0	28,974.7	5
Status 3	7,312.5	1	0.0	0	151.7	< 1	44.2	< 1	0.0	0	0.0	0	134,270.5	25
Status 4	0.0	0	0.0	0	0.0	0	20.6	< 1	0.0	0	366,913.4	68	367,542.1	68
Total	7,312.5	1	0.0	0	187.4	< 1	445.2	< 1	79.1	< 1	366,913.4	68	541,681.7	100

Common Name: COPE'S GRAY TREEFROG

Scientific Name: *HYLA CHRYSOSCELIS*

ITIS TSN: 173502

NS EICode: AAABC02050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	12,972.5	< 1	49,018.4	1	0.0	0	8,467.5	< 1	55.2	< 1	3,094.8	< 1
Status 2	37,570.1	< 1	0.0	0	6,676.4	< 1	0.0	0	10,611.6	< 1	997.7	< 1	23,112.0	< 1
Status 3	0.0	0	196,402.2	5	603.5	< 1	54,628.8	1	28.0	< 1	1,876.8	< 1	13,654.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,889.3	< 1	33.8	< 1	0.0	0	609.5	< 1
Total	37,570.1	< 1	209,374.7	5	56,298.2	1	56,518.1	1	19,140.8	< 1	2,929.7	< 1	40,470.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,695.7	< 1	7.4	< 1	2,171.3	< 1	55.8	< 1	0.0	0	78,538.5	2
Status 2	311.7	< 1	0.0	0	4,133.1	< 1	2,324.6	< 1	0.0	0	146.8	< 1	85,884.1	2
Status 3	3,127.7	< 1	0.0	0	1,106.8	< 1	5,271.0	< 1	910.4	< 1	0.0	0	277,609.9	7
Status 4	0.0	0	0.0	0	24.7	< 1	356.0	< 1	520.3	< 1	3,708,191.8	89	3,711,625.3	89
Total	3,439.4	< 1	2,695.7	< 1	5,271.9	< 1	10,122.9	< 1	1,486.5	< 1	3,708,338.6	89	4,153,657.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREEN TREEFROG
Scientific Name: *HYLA CINEREA*

ITIS TSN: 173505
NS EICode: AAABC02060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,850.8	< 1	12,003.8	< 1	0.0	0	0.0	0	11,415.9	< 1	906.5	< 1	6,652.4	< 1
Status 2	118,511.6	7	0.0	0	3,260.1	< 1	0.0	0	4,370.7	< 1	793.2	< 1	55,898.7	3
Status 3	0.0	0	35,114.4	2	2,679.8	< 1	57,855.2	4	22.9	< 1	20,490.2	1	3,044.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	593.4	< 1	0.2	< 1	0.0	0	241.2	< 1
Total	120,362.3	7	47,118.2	3	5,939.8	< 1	58,448.6	4	15,809.6	< 1	22,189.9	1	65,836.8	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,383.8	< 1	15.7	< 1	7,533.4	< 1	58.3	< 1	0.0	0	48,820.4	3
Status 2	0.0	0	159.6	< 1	111.4	< 1	4,492.7	< 1	0.0	0	303.8	< 1	187,901.6	12
Status 3	6,936.2	< 1	0.0	0	359.9	< 1	10,120.3	< 1	135.2	< 1	0.0	0	136,758.6	8
Status 4	0.0	0	0.0	0	43.2	< 1	45.3	< 1	337.3	< 1	1,251,638.2	77	1,252,898.7	77
Total	6,936.2	< 1	8,543.3	< 1	530.2	< 1	22,191.7	1	530.8	< 1	1,251,941.9	77	1,626,379.4	100

Common Name: PINE WOODS TREEFROG
Scientific Name: *HYLA FEMORALIS*

ITIS TSN: 173499
NS EICode: AAABC02090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	12,076.7	< 1	0.0	0	0.0	0	9,609.7	< 1	686.5	< 1	5,899.3	< 1
Status 2	105,091.6	6	0.0	0	0.9	< 1	0.0	0	4,005.9	< 1	355.0	< 1	49,382.6	3
Status 3	0.0	0	37,022.6	2	341.6	< 1	96,612.4	6	16.5	< 1	20,330.1	1	17,425.6	1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	670.5	< 1
Total	105,093.1	6	49,099.3	3	342.5	< 1	96,613.3	6	13,632.0	< 1	21,371.6	1	73,378.1	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,988.6	< 1	13.3	< 1	6,573.2	< 1	69.6	< 1	0.0	0	41,918.5	3
Status 2	0.0	0	16.5	< 1	78.6	< 1	3,398.1	< 1	0.0	0	209.0	< 1	162,538.1	10
Status 3	7,966.6	< 1	0.0	0	204.7	< 1	7,827.5	< 1	77.6	< 1	0.0	0	187,825.1	11
Status 4	0.0	0	0.0	0	43.7	< 1	36.4	< 1	307.0	< 1	1,248,094.7	76	1,249,153.2	76
Total	7,966.6	< 1	7,005.1	< 1	340.3	< 1	17,835.2	1	454.1	< 1	1,248,303.7	76	1,641,434.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BARKING TREEFROG

Scientific Name: *HYLA GRATIOSA*

ITIS TSN: 173508

NS EICode: AAABC02100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	12,093.3	< 1	0.0	0	0.0	0	10,711.5	< 1	908.3	< 1	6,390.6	< 1
Status 2	110,143.6	6	0.0	0	191.5	< 1	0.0	0	4,603.1	< 1	927.3	< 1	54,445.8	3
Status 3	0.0	0	37,715.8	2	1,222.7	< 1	66,371.4	4	26.6	< 1	20,911.4	1	5,202.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	13.7	< 1	0.0	0	0.0	0	364.7	< 1
Total	110,148.4	6	49,809.1	3	1,414.2	< 1	66,385.1	4	15,341.2	< 1	22,747.0	1	66,403.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,307.5	< 1	3.0	< 1	6,721.3	< 1	121.3	< 1	0.0	0	45,261.6	3
Status 2	0.0	0	21.7	< 1	104.7	< 1	4,288.4	< 1	0.0	0	306.1	< 1	175,032.2	10
Status 3	8,034.2	< 1	0.0	0	185.9	< 1	9,644.0	< 1	53.5	< 1	0.0	0	149,368.1	9
Status 4	0.0	0	0.0	0	33.3	< 1	39.0	< 1	348.4	< 1	1,359,020.3	79	1,359,819.4	79
Total	8,034.2	< 1	8,329.2	< 1	326.8	< 1	20,692.6	1	523.2	< 1	1,359,326.4	79	1,729,481.2	100

Common Name: SQUIRREL TREEFROG

Scientific Name: *HYLA SQUIRELLA*

ITIS TSN: 173504

NS EICode: AAABC02120

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	12,095.6	< 1	0.0	0	0.0	0	10,849.9	< 1	908.3	< 1	6,390.6	< 1
Status 2	111,325.1	6	0.0	0	468.2	< 1	0.0	0	4,749.4	< 1	927.3	< 1	54,801.0	3
Status 3	0.0	0	38,717.5	2	1,556.2	< 1	72,046.0	4	27.8	< 1	20,947.6	1	5,233.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	20.6	< 1	0.2	< 1	0.0	0	405.4	< 1
Total	111,329.8	6	50,813.0	3	2,024.4	< 1	72,066.6	4	15,627.2	< 1	22,783.1	1	66,830.8	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,315.7	< 1	4.7	< 1	6,776.8	< 1	121.3	< 1	0.0	0	45,467.6	2
Status 2	0.0	0	21.7	< 1	176.2	< 1	4,334.0	< 1	0.0	0	306.1	< 1	177,108.9	9
Status 3	8,067.5	< 1	0.0	0	458.9	< 1	9,653.2	< 1	268.7	< 1	0.0	0	156,977.1	8
Status 4	0.0	0	0.0	0	42.8	< 1	39.7	< 1	358.0	< 1	1,613,078.1	81	1,613,944.8	81
Total	8,067.5	< 1	8,337.4	< 1	682.7	< 1	20,803.8	1	748.0	< 1	1,613,384.2	81	1,993,498.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GRAY TREEFROG
Scientific Name: *HYLA VERSICOLOR*

ITIS TSN: 173503
NS EICode: AAABC02130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	8,206.1	2	0.0	0	0.0	0
Status 2	10,377.2	2	0.0	0	3,134.7	< 1	0.0	0	2,628.4	< 1	170.7	< 1	4,483.7	< 1
Status 3	0.0	0	47.3	< 1	0.0	0	3,830.7	< 1	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	10,377.2	2	47.3	< 1	3,134.7	< 1	3,830.7	< 1	10,834.5	2	170.7	< 1	4,483.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	437.3	< 1	0.0	0	0.0	0	8,643.4	2
Status 2	0.0	0	0.0	0	0.0	0	138.4	< 1	0.0	0	0.0	0	20,933.1	4
Status 3	371.5	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4,249.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	16.4	< 1	112.1	< 1	500,667.8	94	500,796.3	94
Total	371.5	< 1	0.0	0	0.0	0	592.1	< 1	112.1	< 1	500,667.8	94	534,622.3	100

Common Name: BRIMLEY'S CHORUS FROG
Scientific Name: *PSEUDACRIS BRIMLEYI*

ITIS TSN: 173524
NS EICode: AAABC05020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	76.2	< 1	0.0	0	0.0	0	2,516.2	< 1	335.1	< 1	4,056.9	< 1
Status 2	16,029.0	3	0.0	0	0.0	0	0.0	0	1,944.1	< 1	674.2	< 1	8,322.3	1
Status 3	0.0	0	2,257.5	< 1	3.5	< 1	7,354.7	1	21.4	< 1	1,192.3	< 1	741.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	122.0	< 1
Total	16,029.0	3	2,333.7	< 1	3.5	< 1	7,355.6	1	4,481.7	< 1	2,201.6	< 1	13,242.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,057.5	< 1	0.0	0	1,142.2	< 1	35.5	< 1	0.0	0	9,219.6	2
Status 2	0.0	0	6.5	< 1	20.3	< 1	1,375.9	< 1	0.0	0	108.8	< 1	28,481.0	5
Status 3	1,675.3	< 1	0.0	0	18.2	< 1	8,620.4	1	2.8	< 1	0.0	0	21,887.0	4
Status 4	0.0	0	0.0	0	10.7	< 1	22.5	< 1	246.6	< 1	536,321.2	90	536,723.8	90
Total	1,675.3	< 1	1,064.0	< 1	49.1	< 1	11,161.0	2	284.9	< 1	536,430.0	90	596,311.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN CHORUS FROG

Scientific Name: PSEUDACRIS NIGRITA

ITIS TSN: 173530

NS EICode: AAABC05040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	179.3	< 1	0.0	0	0.0	0	258.6	< 1	0.0	0	783.5	< 1
Status 2	337.5	< 1	0.0	0	0.0	0	0.0	0	624.9	< 1	138.5	< 1	2,688.5	1
Status 3	0.0	0	5,566.7	2	5.4	< 1	20,529.8	8	2.1	< 1	1,460.6	< 1	2,163.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	143.4	< 1
Total	337.5	< 1	5,746.0	2	5.4	< 1	20,530.7	8	885.5	< 1	1,599.1	< 1	5,778.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	285.1	< 1	74.9	< 1	0.0	0	1,581.4	< 1
Status 2	0.0	0	7.2	< 1	24.5	< 1	121.1	< 1	0.0	0	0.0	0	3,942.2	2
Status 3	1,580.9	< 1	0.0	0	8.2	< 1	443.4	< 1	2.5	< 1	0.0	0	31,762.9	13
Status 4	0.0	0	0.0	0	3.0	< 1	9.8	< 1	0.0	0	211,892.1	85	212,049.2	85
Total	1,580.9	< 1	7.2	< 1	35.6	< 1	859.5	< 1	77.4	< 1	211,892.1	85	249,335.6	100

Common Name: ORNATE CHORUS FROG

Scientific Name: PSEUDACRIS ORNATA

ITIS TSN: 173531

NS EICode: AAABC05050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	12,074.0	1	0.0	0	0.0	0	1,919.5	< 1	0.0	0	3,191.9	< 1
Status 2	14,492.3	1	0.0	0	0.0	0	0.0	0	2,880.2	< 1	6.7	< 1	34,495.9	3
Status 3	0.0	0	36,895.9	4	10.4	< 1	46,231.5	4	0.0	0	19,398.5	2	4,193.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	233.6	< 1
Total	14,492.3	1	48,969.8	5	10.4	< 1	46,232.4	4	4,799.7	< 1	19,405.2	2	42,114.7	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	6,214.8	< 1	121.3	< 1	0.0	0	23,521.4	2
Status 2	0.0	0	19.6	< 1	59.1	< 1	707.8	< 1	0.0	0	0.0	0	52,661.5	5
Status 3	8,011.5	< 1	0.0	0	24.9	< 1	8,907.9	< 1	5.2	< 1	0.0	0	123,679.1	12
Status 4	0.0	0	0.0	0	32.4	< 1	39.0	< 1	312.1	< 1	844,900.2	81	845,518.2	81
Total	8,011.5	< 1	19.6	< 1	116.5	< 1	15,869.4	2	438.7	< 1	844,900.2	81	1,045,380.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: UPLAND CHORUS FROG
Scientific Name: PSEUDACRIS TRISERIATA

ITIS TSN: 173525
NS EICode: AAABC05070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	611.7	< 1	0.0	0	0.0	0	8,850.7	< 1	0.0	0	2,405.7	< 1
Status 2	22,079.8	2	0.0	0	83.6	< 1	0.0	0	4,191.8	< 1	755.4	< 1	38,394.9	3
Status 3	0.0	0	5,078.3	< 1	24.6	< 1	24,564.0	2	19.4	< 1	113.0	< 1	4,679.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,530.3	< 1	13.7	< 1	0.0	0	170.5	< 1
Total	22,079.8	2	5,690.0	< 1	108.2	< 1	26,094.2	2	13,075.6	< 1	868.4	< 1	45,650.8	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	4.7	< 1	708.8	< 1	61.3	< 1	0.0	0	12,642.9	< 1
Status 2	6.8	< 1	0.0	0	468.9	< 1	529.5	< 1	0.0	0	0.0	0	66,510.6	5
Status 3	6,857.6	< 1	0.0	0	346.7	< 1	1,116.6	< 1	201.2	< 1	0.0	0	43,001.0	3
Status 4	0.0	0	0.0	0	0.0	0	75.3	< 1	455.8	< 1	1,305,875.2	91	1,308,120.7	91
Total	6,864.4	< 1	0.0	0	820.3	< 1	2,430.3	< 1	718.2	< 1	1,305,875.2	91	1,430,275.2	100

Common Name: SPRING PEEPER
Scientific Name: PSEUDACRIS CRUCIFER

ITIS TSN: 207303
NS EICode: AAABC05090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	21,892.0	< 1	30,164.9	< 1	0.0	0	12,916.6	< 1	912.2	< 1	7,081.9	< 1
Status 2	120,427.8	3	0.0	0	5,058.9	< 1	0.0	0	10,406.7	< 1	1,141.3	< 1	66,082.6	1
Status 3	0.0	0	145,612.3	3	1,457.4	< 1	91,280.3	2	31.3	< 1	33,140.3	< 1	11,113.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,920.7	< 1	14.8	< 1	0.0	0	739.9	< 1
Total	120,432.6	3	167,504.2	4	36,681.1	< 1	93,200.9	2	23,369.4	< 1	35,193.9	< 1	85,017.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,445.5	< 1	5.9	< 1	8,252.8	< 1	222.3	< 1	0.0	0	89,898.8	2
Status 2	125.0	< 1	24.4	< 1	3,215.3	< 1	5,852.0	< 1	0.0	0	321.0	< 1	212,654.9	5
Status 3	12,473.7	< 1	0.0	0	817.0	< 1	11,888.6	< 1	1,634.9	< 1	0.0	0	309,449.0	7
Status 4	0.0	0	0.0	0	82.3	< 1	212.7	< 1	529.1	< 1	4,092,090.4	87	4,095,589.8	87
Total	12,598.7	< 1	8,469.9	< 1	4,120.4	< 1	26,206.0	< 1	2,386.4	< 1	4,092,411.4	87	4,707,592.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LITTLE GRASS FROG
Scientific Name: PSEUDACRIS OCULARIS

ITIS TSN: 207286
NS EICode: AAABC05110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.9	< 1	12,072.2	< 1	0.0	0	0.0	0	10,303.9	< 1	902.5	< 1	6,059.2	< 1
Status 2	103,338.4	7	0.0	0	268.7	< 1	0.0	0	3,914.5	< 1	824.3	< 1	50,183.9	3
Status 3	0.0	0	36,228.3	2	289.8	< 1	54,109.4	4	22.1	< 1	20,971.5	1	2,877.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1.0	< 1	0.0	0	0.0	0	278.2	< 1
Total	103,340.3	7	48,300.5	3	558.5	< 1	54,110.3	4	14,240.5	< 1	22,698.4	2	59,398.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,214.7	< 1	0.0	0	6,605.7	< 1	67.5	< 1	0.0	0	43,227.5	3
Status 2	0.0	0	16.5	< 1	72.7	< 1	4,010.5	< 1	0.0	0	304.6	< 1	162,934.0	11
Status 3	7,267.0	< 1	0.0	0	27.5	< 1	9,493.2	< 1	108.8	< 1	0.0	0	131,395.3	9
Status 4	0.0	0	0.0	0	37.9	< 1	45.7	< 1	355.9	< 1	1,137,948.8	77	1,138,667.4	77
Total	7,267.0	< 1	7,231.1	< 1	138.2	< 1	20,155.1	1	532.2	< 1	1,138,253.3	77	1,476,224.3	100

Common Name: EASTERN NARROWMOUTH TOAD
Scientific Name: GASTROPHRYNE CAROLINENSIS

ITIS TSN: 173467
NS EICode: AAABE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	12,881.3	< 1	0.0	0	0.0	0	11,488.6	< 1	913.1	< 1	6,495.0	< 1
Status 2	119,284.1	4	0.0	0	456.8	< 1	0.0	0	8,024.9	< 1	957.1	< 1	61,173.5	2
Status 3	0.0	0	51,086.3	2	1,526.6	< 1	86,666.4	3	24.9	< 1	31,929.5	< 1	11,253.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,953.5	< 1	0.0	0	0.0	0	717.7	< 1
Total	119,288.9	4	63,967.7	2	1,983.4	< 1	88,619.9	3	19,538.4	< 1	33,799.6	1	79,639.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,418.0	< 1	18.5	< 1	7,488.8	< 1	218.8	< 1	0.0	0	47,926.9	1
Status 2	0.0	0	24.4	< 1	750.8	< 1	5,360.0	< 1	0.0	0	314.7	< 1	196,346.3	6
Status 3	11,241.1	< 1	0.0	0	686.2	< 1	10,412.2	< 1	1,018.3	< 1	0.0	0	205,845.0	6
Status 4	0.0	0	0.0	0	71.6	< 1	83.1	< 1	440.6	< 1	2,879,872.0	86	2,883,138.5	86
Total	11,241.1	< 1	8,442.4	< 1	1,527.1	< 1	23,344.1	< 1	1,677.6	< 1	2,880,186.8	86	3,333,256.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN SPADEFOOT

Scientific Name: SCAPHIOPUS HOLBROOKII

ITIS TSN: 173426

NS EICode: AAABF01040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.3	< 1	17,603.8	< 1	0.0	0	0.0	0	11,764.4	< 1	589.8	< 1	4,115.8	< 1
Status 2	107,740.3	2	0.0	0	1,717.4	< 1	0.0	0	15,625.5	< 1	904.3	< 1	67,800.2	1
Status 3	0.0	0	137,777.0	2	2,585.2	< 1	135,080.6	2	28.8	< 1	33,383.0	< 1	30,491.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,972.9	< 1	0.2	< 1	0.0	0	1,246.6	< 1
Total	107,746.6	2	155,380.9	3	4,302.5	< 1	137,053.5	2	27,418.9	< 1	34,877.1	< 1	103,654.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,912.7	< 1	11.8	< 1	7,233.8	< 1	211.3	< 1	0.0	0	49,449.6	< 1
Status 2	538.1	< 1	22.7	< 1	1,171.0	< 1	5,102.0	< 1	0.0	0	244.7	< 1	200,866.1	3
Status 3	15,564.6	< 1	0.0	0	1,914.5	< 1	3,477.2	< 1	2,808.3	< 1	0.0	0	363,110.8	6
Status 4	0.0	0	0.0	0	92.7	< 1	405.6	< 1	771.5	< 1	5,206,813.8	89	5,211,303.3	89
Total	16,102.7	< 1	7,935.4	< 1	3,190.0	< 1	16,218.6	< 1	3,791.1	< 1	5,207,058.5	89	5,824,729.7	100

Common Name: BULLFROG

Scientific Name: RANA CATESBEIANA

ITIS TSN: 173441

NS EICode: AAABH01070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	2.6	< 1	16,711.9	< 1	17,234.6	< 1	0.0	0	13,150.7	< 1	908.5	< 1	7,031.3	< 1
Status 2	115,365.7	3	0.0	0	3,491.6	< 1	0.0	0	10,572.9	< 1	1,120.5	< 1	65,604.8	2
Status 3	0.0	0	115,762.4	3	677.9	< 1	78,628.9	2	34.7	< 1	25,518.2	< 1	10,477.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,398.1	< 1	24.1	< 1	0.0	0	560.3	< 1
Total	115,368.3	3	132,474.3	3	21,404.2	< 1	81,026.9	2	23,782.5	< 1	27,547.2	< 1	83,673.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,611.5	< 1	23.1	< 1	7,694.5	< 1	79.0	< 1	0.0	0	70,447.7	2
Status 2	233.4	< 1	21.2	< 1	2,051.3	< 1	5,625.3	< 1	0.0	0	331.6	< 1	204,418.3	5
Status 3	10,054.4	< 1	0.0	0	1,169.0	< 1	10,953.2	< 1	1,029.2	< 1	0.0	0	254,305.4	6
Status 4	0.0	0	0.0	0	75.1	< 1	264.8	< 1	713.0	< 1	3,705,185.8	87	3,709,221.0	88
Total	10,287.7	< 1	7,632.7	< 1	3,318.5	< 1	24,537.7	< 1	1,821.2	< 1	3,705,517.4	87	4,238,392.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREEN FROG
Scientific Name: RANA CLAMITANS

ITIS TSN: 173438
NS EICode: AAABH01090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	2.6	< 1	16,711.9	< 1	17,234.6	< 1	0.0	0	13,150.7	< 1	908.5	< 1	7,031.3	< 1
Status 2	115,365.7	3	0.0	0	3,491.6	< 1	0.0	0	10,572.9	< 1	1,120.5	< 1	65,604.8	2
Status 3	0.0	0	115,762.4	3	677.9	< 1	78,628.9	2	34.7	< 1	25,518.2	< 1	10,477.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,398.1	< 1	24.1	< 1	0.0	0	560.3	< 1
Total	115,368.3	3	132,474.3	3	21,404.2	< 1	81,026.9	2	23,782.5	< 1	27,547.2	< 1	83,673.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,611.5	< 1	23.1	< 1	7,694.5	< 1	79.0	< 1	0.0	0	70,447.7	2
Status 2	233.4	< 1	21.2	< 1	2,051.3	< 1	5,625.3	< 1	0.0	0	331.6	< 1	204,418.3	5
Status 3	10,054.4	< 1	0.0	0	1,169.0	< 1	10,953.2	< 1	1,029.2	< 1	0.0	0	254,305.4	6
Status 4	0.0	0	0.0	0	75.1	< 1	264.8	< 1	713.0	< 1	3,705,185.8	87	3,709,221.0	88
Total	10,287.7	< 1	7,632.7	< 1	3,318.5	< 1	24,537.7	< 1	1,821.2	< 1	3,705,517.4	87	4,238,392.4	100

Common Name: PICKEREL FROG
Scientific Name: RANA PALUSTRIS

ITIS TSN: 173435
NS EICode: AAABH01160

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	2,652.5	< 1	9,107.2	< 1	0.0	0	9,693.3	< 1	785.3	< 1	6,358.2	< 1
Status 2	60,851.7	5	0.0	0	1,310.9	< 1	0.0	0	4,094.2	< 1	806.9	< 1	20,023.7	2
Status 3	0.0	0	37,409.9	3	145.7	< 1	21,619.5	2	21.9	< 1	4,413.9	< 1	2,797.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,792.4	< 1	8.3	< 1	0.0	0	157.4	< 1
Total	60,853.2	5	40,062.4	3	10,563.8	< 1	23,411.9	2	13,817.6	1	6,006.1	< 1	29,336.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,741.8	< 1	15.7	< 1	1,679.0	< 1	41.0	< 1	0.0	0	36,075.4	3
Status 2	81.6	< 1	6.7	< 1	849.4	< 1	3,431.4	< 1	0.0	0	287.1	< 1	91,743.6	7
Status 3	2,910.4	< 1	0.0	0	425.6	< 1	9,544.7	< 1	106.2	< 1	0.0	0	79,395.4	6
Status 4	0.0	0	0.0	0	25.7	< 1	77.9	< 1	339.5	< 1	1,045,728.2	83	1,048,129.3	83
Total	2,992.1	< 1	5,748.5	< 1	1,316.4	< 1	14,733.0	1	486.6	< 1	1,046,015.3	83	1,255,343.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WOOD FROG
Scientific Name: RANA SYLVATICA

ITIS TSN: 173440
NS EICode: AAABH01200

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,964.5	2	52,675.5	7	0.0	0	1,399.0	<1	0.0	0	457.4	<1
Status 2	9.8	<1	0.0	0	8,422.7	1	0.0	0	1,733.2	<1	53.3	<1	3,867.7	<1
Status 3	0.0	0	156,309.6	21	22.1	<1	62.5	<1	0.0	0	45.4	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	68.2	<1	0.0	0	0.0	0	0.0	0
Total	9.8	<1	171,274.1	23	61,120.2	8	130.7	<1	3,132.2	<1	98.6	<1	4,325.0	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,244.4	<1	1.3	<1	0.0	0	70,742.0	9
Status 2	185.7	<1	0.0	0	4,496.7	<1	595.1	<1	0.0	0	1.5	<1	19,365.6	3
Status 3	686.7	<1	0.0	0	0.0	0	2,142.2	<1	0.0	0	0.0	0	159,268.3	21
Status 4	0.0	0	0.0	0	0.0	0	157.1	<1	7.3	<1	503,872.7	67	504,105.3	67
Total	872.4	<1	0.0	0	4,496.7	<1	4,138.8	<1	8.6	<1	503,874.2	67	753,481.2	100

Common Name: SOUTHERN LEOPARD FROG
Scientific Name: RANA SPHENOCEPHALA

ITIS TSN: 173436
NS EICode: AAABH01200

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,874.4	<1	12,429.5	<1	0.0	0	0.0	0	12,122.8	<1	915.2	<1	6,997.5	<1
Status 2	134,536.8	3	0.0	0	3,818.2	<1	0.0	0	6,168.6	<1	1,033.5	<1	62,476.2	1
Status 3	0.0	0	41,826.9	<1	4,073.4	<1	82,803.3	2	38.5	<1	23,033.1	<1	7,997.4	<1
Status 4	0.0	0	0.0	0	0.0	0	2,499.8	<1	17.9	<1	0.0	0	762.5	<1
Total	136,411.2	3	54,256.3	1	7,891.6	<1	85,303.1	2	18,347.9	<1	24,981.8	<1	78,233.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,546.1	<1	17.4	<1	8,238.0	<1	164.9	<1	0.0	0	52,305.8	1
Status 2	0.0	0	168.0	<1	807.4	<1	5,404.5	<1	0.0	0	325.2	<1	214,738.3	4
Status 3	8,868.1	<1	0.0	0	868.1	<1	11,055.9	<1	1,713.7	<1	0.0	0	182,278.3	4
Status 4	0.0	0	0.0	0	86.2	<1	133.5	<1	917.9	<1	4,578,778.4	91	4,583,196.1	91
Total	8,868.1	<1	9,714.2	<1	1,779.0	<1	24,831.8	<1	2,796.5	<1	4,579,103.5	91	5,032,518.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CARPENTER FROG
Scientific Name: RANA VIRGATIPES

ITIS TSN: 173437
NS EICode: AAABH01230

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	12,003.1	< 1	0.0	0	0.0	0	10,348.7	< 1	903.2	< 1	6,193.6	< 1
Status 2	103,259.3	8	0.0	0	0.9	< 1	0.0	0	3,803.1	< 1	594.6	< 1	49,791.6	4
Status 3	0.0	0	34,270.6	3	199.8	< 1	48,789.1	4	0.0	0	20,444.1	2	2,974.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	143.2	< 1
Total	103,260.9	8	46,273.7	4	200.7	< 1	48,790.0	4	14,151.9	1	21,941.9	2	59,102.5	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,222.2	< 1	0.0	0	6,559.6	< 1	58.3	< 1	0.0	0	43,290.3	3
Status 2	0.0	0	16.5	< 1	49.6	< 1	3,982.7	< 1	0.0	0	303.6	< 1	161,801.9	13
Status 3	6,923.8	< 1	0.0	0	56.7	< 1	9,447.6	< 1	23.5	< 1	0.0	0	123,129.2	10
Status 4	0.0	0	0.0	0	37.1	< 1	45.0	< 1	314.2	< 1	964,082.2	75	964,622.5	75
Total	6,923.8	< 1	7,238.7	< 1	143.4	< 1	20,034.8	2	396.0	< 1	964,385.7	75	1,292,843.9	100

Common Name: GOPHER FROG
Scientific Name: RANA CAPITO

ITIS TSN: 207016
NS EICode: AAABH01270

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	174.8	< 1	0.0	0	0.0	0	610.1	< 1	0.0	0	256.6	< 1
Status 2	910.8	< 1	0.0	0	0.0	0	0.0	0	578.4	< 1	0.0	0	2,124.0	< 1
Status 3	0.0	0	3,982.8	< 1	16.7	< 1	57,398.9	12	0.0	0	562.5	< 1	17,864.3	4
Status 4	0.0	0	0.0	0	0.0	0	9.1	< 1	0.0	0	0.0	0	592.5	< 1
Total	910.8	< 1	4,157.6	< 1	16.7	< 1	57,408.0	12	1,188.5	< 1	562.5	< 1	20,837.3	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	124.1	< 1	0.0	0	506.2	< 1	61.2	< 1	0.0	0	1,733.0	< 1
Status 2	0.0	0	0.2	< 1	25.5	< 1	152.5	< 1	0.0	0	0.0	0	3,791.3	< 1
Status 3	3,562.5	< 1	0.0	0	153.7	< 1	780.8	< 1	0.0	0	0.0	0	84,322.1	17
Status 4	0.0	0	0.0	0	9.1	< 1	20.7	< 1	0.0	0	391,565.4	81	392,196.8	81
Total	3,562.5	< 1	124.3	< 1	188.3	< 1	1,460.1	< 1	61.2	< 1	391,565.4	81	482,043.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PIED-BILLED GREBE
Scientific Name: *PODILYMBUS PODICEPS*

ITIS TSN: 174505
NS EICode: ABNCA02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	344.1	< 1	41.4	< 1	0.0	0	0.0	0	1,236.3	< 1	39.5	< 1	631.8	< 1
Status 2	6,131.7	2	0.0	0	1,110.5	< 1	0.0	0	903.2	< 1	215.9	< 1	1,868.8	< 1
Status 3	0.0	0	965.4	< 1	704.0	< 1	4,466.3	2	14.0	< 1	118.5	< 1	32.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	105.5	< 1	0.5	< 1	0.0	0	56.1	< 1
Total	6,475.8	3	1,006.8	< 1	1,814.5	< 1	4,571.8	2	2,154.0	< 1	374.0	< 1	2,589.6	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	751.7	< 1	25.3	< 1	407.5	< 1	18.7	< 1	0.0	0	3,496.3	1
Status 2	0.0	0	117.4	< 1	36.3	< 1	284.1	< 1	0.0	0	24.0	< 1	10,691.8	4
Status 3	263.9	< 1	0.0	0	213.6	< 1	1,035.7	< 1	61.5	< 1	0.0	0	7,875.9	3
Status 4	0.0	0	0.0	0	10.3	< 1	0.2	< 1	4.3	< 1	233,484.4	91	233,661.2	91
Total	263.9	< 1	869.0	< 1	285.4	< 1	1,727.6	< 1	84.5	< 1	233,508.4	91	255,725.2	100

Common Name: BROWN PELICAN
Scientific Name: *PELECANUS OCCIDENTALIS*

ITIS TSN: 174685
NS EICode: ABNFC01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,435.9	2	0.0	0	0.0	0	0.0	0	1,167.7	1	150.8	< 1	355.1	< 1
Status 2	7,793.0	8	0.0	0	4,920.4	5	0.0	0	572.7	< 1	0.0	0	2,516.7	3
Status 3	0.0	0	204.9	< 1	3,805.5	4	5,266.2	6	0.0	0	21.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	226.7	< 1	0.0	0	0.0	0	0.0	0
Total	9,228.9	10	204.9	< 1	8,725.9	9	5,492.9	6	1,740.3	2	172.6	< 1	2,871.8	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,755.1	2	0.0	0	769.8	< 1	0.0	0	0.0	0	5,634.4	6
Status 2	0.0	0	150.2	< 1	4.9	< 1	370.6	< 1	0.0	0	10.3	< 1	16,338.7	18
Status 3	0.0	0	0.0	0	0.0	0	258.8	< 1	22.2	< 1	0.0	0	9,579.4	10
Status 4	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	60,685.2	66	60,915.1	66
Total	0.0	0	1,905.3	2	8.0	< 1	1,399.2	2	22.2	< 1	60,695.5	66	92,467.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: DOUBLE-CRESTED CORMORANT
Scientific Name: PHALACROCORAX AURITUS

ITIS TSN: 174717
NS EICode: ABNFD01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	35.8	< 1	48.5	< 1	0.0	0	0.0	0	621.9	< 1	42.0	< 1	232.9	< 1
Status 2	4,748.2	3	0.0	0	912.3	< 1	0.0	0	994.3	< 1	0.0	0	4,791.8	3
Status 3	0.0	0	1,174.3	< 1	885.4	< 1	4,041.7	3	0.0	0	256.1	< 1	41.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	2.2	< 1	0.5	< 1	0.0	0	0.0	0
Total	4,784.0	3	1,222.8	< 1	1,797.8	1	4,043.9	3	1,616.7	1	298.2	< 1	5,065.7	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	489.1	< 1	0.0	0	142.1	< 1	18.7	< 1	0.0	0	1,631.1	1
Status 2	0.0	0	8.9	< 1	48.2	< 1	307.0	< 1	0.0	0	29.0	< 1	11,839.7	8
Status 3	286.7	< 1	0.0	0	236.5	< 1	479.2	< 1	1.3	< 1	0.0	0	7,402.3	5
Status 4	0.0	0	0.0	0	12.1	< 1	0.0	0	0.0	0	132,254.3	86	132,269.0	86
Total	286.7	< 1	498.0	< 1	296.7	< 1	928.3	< 1	20.0	< 1	132,283.3	86	153,142.0	100

Common Name: ANHINGA
Scientific Name: ANHINGA ANHINGA

ITIS TSN: 174755
NS EICode: ABNFE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	36.3	< 1	62.4	< 1	0.0	0	0.0	0	1,308.8	< 1	54.6	< 1	623.5	< 1
Status 2	8,660.4	5	0.0	0	571.1	< 1	0.0	0	1,098.4	< 1	0.0	0	1,735.2	< 1
Status 3	0.0	0	1,339.1	< 1	548.2	< 1	3,967.5	2	0.0	0	203.5	< 1	8.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1.9	< 1	0.0	0	0.0	0	0.0	0
Total	8,696.7	5	1,401.5	< 1	1,119.2	< 1	3,969.4	2	2,407.1	1	258.1	< 1	2,366.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	842.3	< 1	0.0	0	198.6	< 1	22.0	< 1	0.0	0	3,148.5	2
Status 2	0.0	0	8.6	< 1	14.2	< 1	402.8	< 1	0.0	0	48.2	< 1	12,539.0	7
Status 3	401.5	< 1	0.0	0	0.0	0	1,070.8	< 1	6.1	< 1	0.0	0	7,544.9	4
Status 4	0.0	0	0.0	0	10.8	< 1	0.0	0	9.2	< 1	167,204.4	88	167,226.3	88
Total	401.5	< 1	851.0	< 1	25.0	< 1	1,672.3	< 1	37.3	< 1	167,252.7	88	190,458.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN BITTERN

Scientific Name: *BOTAURUS LENTIGINOSUS*

ITIS TSN: 174856

NS EICode: ABNGA01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,818.2	2	11.5	< 1	0.0	0	0.0	0	39.3	< 1	0.0	0	0.5	< 1
Status 2	15,626.5	16	0.0	0	4,193.7	4	0.0	0	243.1	< 1	0.0	0	4,033.5	4
Status 3	0.0	0	395.1	< 1	1,249.6	1	5,903.4	6	0.0	0	0.0	0	1.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	17,444.7	18	406.6	< 1	5,443.3	6	5,903.4	6	282.4	< 1	0.0	0	4,035.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	434.9	< 1	0.0	0	309.7	< 1	0.0	0	0.0	0	2,614.1	3
Status 2	0.0	0	145.1	< 1	0.4	< 1	457.7	< 1	0.0	0	1.2	< 1	24,701.1	26
Status 3	0.0	0	0.0	0	0.0	0	400.6	< 1	0.0	0	0.0	0	7,950.5	8
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	59,562.5	63	59,562.5	63
Total	0.0	0	580.0	< 1	0.4	< 1	1,167.9	1	0.0	0	59,563.7	63	94,828.2	100

Common Name: LEAST BITTERN

Scientific Name: *IXOBRYCHUS EXILIS*

ITIS TSN: 174846

NS EICode: ABNGA02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,818.2	< 1	12.6	< 1	0.0	0	0.0	0	1,031.5	< 1	6.1	< 1	438.2	< 1
Status 2	18,649.5	8	0.0	0	4,193.7	2	0.0	0	483.2	< 1	0.6	< 1	4,528.1	2
Status 3	0.0	0	447.2	< 1	2,801.0	1	9,358.5	4	0.5	< 1	204.7	< 1	399.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,940.8	< 1	0.0	0	0.0	0	42.9	< 1
Total	20,467.7	8	459.8	< 1	6,994.7	3	11,299.2	5	1,515.2	< 1	211.4	< 1	5,408.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,315.1	< 1	4.2	< 1	922.1	< 1	0.0	0	0.0	0	5,548.1	2
Status 2	0.0	0	145.1	< 1	47.3	< 1	498.9	< 1	0.0	0	1.2	< 1	28,547.6	12
Status 3	70.7	< 1	0.0	0	78.3	< 1	640.4	< 1	75.8	< 1	0.0	0	14,076.2	6
Status 4	0.0	0	0.0	0	5.1	< 1	7.0	< 1	34.2	< 1	195,546.4	80	197,576.5	80
Total	70.7	< 1	1,460.2	< 1	134.9	< 1	2,068.4	< 1	110.0	< 1	195,547.6	80	245,748.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREAT BLUE HERON
Scientific Name: ARDEA HERODIAS

ITIS TSN: 174773
NS EICode: ABNGA04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	105.8	< 1	0.0	0	0.0	0	3,751.3	< 1	345.8	< 1	4,529.1	< 1
Status 2	39,952.4	4	0.0	0	3,359.3	< 1	0.0	0	2,707.0	< 1	679.1	< 1	17,091.4	2
Status 3	0.0	0	2,908.0	< 1	2,687.0	< 1	20,245.6	2	22.9	< 1	1,475.5	< 1	1,986.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,333.3	< 1	0.2	< 1	0.0	0	127.7	< 1
Total	41,806.3	4	3,013.8	< 1	6,046.3	< 1	22,578.8	2	6,481.4	< 1	2,500.3	< 1	23,734.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,601.4	< 1	15.7	< 1	2,166.6	< 1	35.5	< 1	0.0	0	15,404.9	2
Status 2	0.0	0	150.5	< 1	281.2	< 1	2,080.2	< 1	0.0	0	113.5	< 1	66,414.5	7
Status 3	1,777.1	< 1	0.0	0	485.3	< 1	9,422.5	< 1	195.8	< 1	0.0	0	41,205.8	4
Status 4	0.0	0	0.0	0	23.4	< 1	30.2	< 1	288.5	< 1	845,936.5	87	848,739.6	87
Total	1,777.1	< 1	2,751.8	< 1	805.5	< 1	13,699.4	1	519.7	< 1	846,050.0	87	971,764.7	100

Common Name: GREAT EGRET
Scientific Name: ARDEA ALBA

ITIS TSN: 554135
NS EICode: ABNGA04040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	105.8	< 1	0.0	0	0.0	0	3,577.8	< 1	345.8	< 1	4,529.1	< 1
Status 2	39,820.8	5	0.0	0	3,359.3	< 1	0.0	0	2,254.5	< 1	3.1	< 1	14,018.6	2
Status 3	0.0	0	2,905.6	< 1	2,678.9	< 1	17,322.5	2	0.0	0	1,391.9	< 1	91.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	557.6	< 1	0.2	< 1	0.0	0	10.4	< 1
Total	41,674.6	6	3,011.4	< 1	6,038.3	< 1	17,880.1	2	5,832.5	< 1	1,740.7	< 1	18,649.3	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,599.4	< 1	0.0	0	2,074.2	< 1	35.5	< 1	0.0	0	15,121.4	2
Status 2	0.0	0	150.5	< 1	26.0	< 1	2,010.8	< 1	0.0	0	113.5	< 1	61,757.0	8
Status 3	1,764.4	< 1	0.0	0	0.0	0	9,364.6	1	122.4	< 1	0.0	0	35,641.4	5
Status 4	0.0	0	0.0	0	23.4	< 1	29.4	< 1	288.5	< 1	623,064.2	85	623,973.7	85
Total	1,764.4	< 1	2,749.9	< 1	49.4	< 1	13,479.0	2	446.3	< 1	623,177.6	85	736,493.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SNOWY EGRET
Scientific Name: EGRETTA THULA

ITIS TSN: 174813
NS EICode: ABNGA06030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	43.3	< 1	0.0	0	0.0	0	1,003.1	< 1	0.0	0	657.6	< 1
Status 2	28,980.9	10	0.0	0	3,359.3	1	0.0	0	226.7	< 1	0.0	0	12,240.5	4
Status 3	0.0	0	1,777.4	< 1	2,680.4	< 1	16,740.2	6	0.0	0	704.4	< 1	20.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	557.6	< 1	0.0	0	0.0	0	0.0	0
Total	30,834.7	11	1,820.7	< 1	6,039.7	2	17,297.8	6	1,229.8	< 1	704.4	< 1	12,918.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,456.3	< 1	0.0	0	1,203.9	< 1	35.5	< 1	0.0	0	7,253.5	2
Status 2	0.0	0	150.5	< 1	14.0	< 1	1,310.7	< 1	0.0	0	0.0	0	46,282.5	16
Status 3	0.0	0	0.0	0	0.0	0	1,067.9	< 1	38.9	< 1	0.0	0	23,029.7	8
Status 4	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	216,113.4	74	216,674.3	74
Total	0.0	0	2,606.8	< 1	17.2	< 1	3,582.5	1	74.3	< 1	216,113.4	74	293,239.9	100

Common Name: LITTLE BLUE HERON
Scientific Name: EGRETTA CAERULEA

ITIS TSN: 174827
NS EICode: ABNGA06040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	105.8	< 1	0.0	0	0.0	0	1,398.2	< 1	0.0	0	1,189.7	< 1
Status 2	29,048.1	7	0.0	0	3,359.3	< 1	0.0	0	1,327.7	< 1	0.0	0	12,621.9	3
Status 3	0.0	0	2,841.2	< 1	2,680.4	< 1	17,307.3	4	0.0	0	704.4	< 1	20.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	557.6	< 1	0.2	< 1	0.0	0	0.0	0
Total	30,902.0	8	2,947.1	< 1	6,039.7	1	17,864.9	4	2,726.1	< 1	704.4	< 1	13,832.1	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,456.3	< 1	0.0	0	1,223.0	< 1	35.5	< 1	0.0	0	8,262.4	2
Status 2	0.0	0	150.5	< 1	14.0	< 1	1,435.5	< 1	0.0	0	0.0	0	47,957.0	12
Status 3	1,752.9	< 1	0.0	0	0.0	0	1,116.8	< 1	38.9	< 1	0.0	0	26,462.4	6
Status 4	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	328,259.9	80	328,820.9	80
Total	1,752.9	< 1	2,606.8	< 1	17.2	< 1	3,775.3	< 1	74.3	< 1	328,259.9	80	411,502.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: TRICOLORED HERON
Scientific Name: EGRETTA TRICOLOR

ITIS TSN: 174826
NS EICode: ABNGA06050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	43.3	< 1	0.0	0	0.0	0	1,003.1	< 1	0.0	0	657.6	< 1
Status 2	28,938.6	11	0.0	0	3,359.3	1	0.0	0	226.7	< 1	0.0	0	12,240.5	4
Status 3	0.0	0	1,777.4	< 1	2,680.4	< 1	16,740.2	6	0.0	0	704.4	< 1	20.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	557.6	< 1	0.0	0	0.0	0	0.0	0
Total	30,792.4	11	1,820.7	< 1	6,039.7	2	17,297.8	6	1,229.8	< 1	704.4	< 1	12,918.6	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,456.3	< 1	0.0	0	1,163.6	< 1	35.5	< 1	0.0	0	7,213.1	3
Status 2	0.0	0	150.5	< 1	14.0	< 1	1,271.8	< 1	0.0	0	0.0	0	46,201.3	17
Status 3	0.0	0	0.0	0	0.0	0	1,067.9	< 1	38.9	< 1	0.0	0	23,029.7	8
Status 4	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	197,027.0	72	197,587.9	72
Total	0.0	0	2,606.8	< 1	17.2	< 1	3,503.3	1	74.3	< 1	197,027.0	72	274,032.0	100

Common Name: CATTLE EGRET
Scientific Name: BUBULCUS IBIS

ITIS TSN: 174803
NS EICode: ABNGA07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	105.8	< 1	0.0	0	0.0	0	1,761.4	< 1	345.8	< 1	1,764.2	< 1
Status 2	35,072.4	6	0.0	0	3,751.1	< 1	0.0	0	2,119.6	< 1	0.0	0	12,912.8	2
Status 3	0.0	0	2,905.6	< 1	2,989.9	< 1	17,358.8	3	0.0	0	1,391.9	< 1	20.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	574.6	< 1	0.2	< 1	0.0	0	0.0	0
Total	36,926.2	7	3,011.4	< 1	6,741.0	1	17,933.4	3	3,881.2	< 1	1,737.6	< 1	14,697.7	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,745.5	< 1	0.0	0	1,380.3	< 1	35.5	< 1	0.0	0	9,992.3	2
Status 2	0.0	0	155.0	< 1	22.6	< 1	2,000.5	< 1	0.0	0	113.5	< 1	56,147.5	10
Status 3	1,752.9	< 1	0.0	0	0.0	0	2,708.1	< 1	38.9	< 1	0.0	0	29,166.8	5
Status 4	0.0	0	0.0	0	23.4	< 1	0.0	0	285.6	< 1	462,511.3	83	463,395.0	83
Total	1,752.9	< 1	2,900.4	< 1	46.0	< 1	6,089.0	1	359.9	< 1	462,624.8	83	558,701.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREEN HERON
Scientific Name: *BUTORIDES VIRESCENS*

ITIS TSN: 174793
NS EICode: ABNGA08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	362.6	< 1	812.0	< 1	0.0	0	3,936.2	< 1	345.8	< 1	4,611.7	< 1
Status 2	41,117.2	3	0.0	0	4,409.6	< 1	0.0	0	3,119.0	< 1	689.7	< 1	17,588.5	1
Status 3	0.0	0	9,326.0	< 1	3,009.2	< 1	20,726.4	2	22.9	< 1	1,476.8	< 1	2,793.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,362.8	< 1	8.5	< 1	0.0	0	192.4	< 1
Total	42,971.0	3	9,688.6	< 1	8,230.9	< 1	23,089.1	2	7,086.5	< 1	2,512.3	< 1	25,186.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,745.5	< 1	15.7	< 1	2,224.0	< 1	36.5	< 1	0.0	0	16,943.8	1
Status 2	61.9	< 1	155.0	< 1	436.7	< 1	2,188.4	< 1	0.0	0	113.5	< 1	69,879.5	5
Status 3	2,007.9	< 1	0.0	0	485.3	< 1	9,466.9	< 1	195.8	< 1	0.0	0	49,510.7	4
Status 4	0.0	0	0.0	0	23.4	< 1	62.0	< 1	368.7	< 1	1,144,618.7	89	1,147,636.4	89
Total	2,069.8	< 1	2,900.4	< 1	961.0	< 1	13,941.4	1	601.0	< 1	1,144,732.1	89	1,283,970.4	100

Common Name: BLACK-CROWNED NIGHT-HERON
Scientific Name: *NYCTICORAX NYCTICORAX*

ITIS TSN: 174832
NS EICode: ABNGA11010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.3	< 1	42.8	< 1	0.0	0	0.0	0	120.7	< 1	37.2	< 1	418.7	< 1
Status 2	4,613.5	8	0.0	0	145.4	< 1	0.0	0	368.1	< 1	0.0	0	758.3	1
Status 3	0.0	0	922.5	2	262.5	< 1	2,514.7	4	0.0	0	81.3	< 1	7.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1.3	< 1	0.0	0	0.0	0	0.0	0
Total	4,646.8	8	965.3	2	408.0	< 1	2,516.0	4	488.8	< 1	118.4	< 1	1,184.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	282.1	< 1	0.0	0	106.9	< 1	0.0	0	0.0	0	1,041.6	2
Status 2	0.0	0	5.9	< 1	9.0	< 1	164.9	< 1	0.0	0	25.2	< 1	6,090.2	10
Status 3	0.0	0	0.0	0	0.0	0	957.0	2	0.5	< 1	0.0	0	4,746.3	8
Status 4	0.0	0	0.0	0	7.8	< 1	0.0	0	3.2	< 1	48,012.1	80	48,024.5	80
Total	0.0	0	287.9	< 1	16.8	< 1	1,228.8	2	3.7	< 1	48,037.3	80	59,902.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: YELLOW-CROWNED NIGHT-HERON
Scientific Name: NYCTANASSA VIOLACEA

ITIS TSN: 174842
NS EICode: ABNGA13010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.3	< 1	189.1	< 1	0.0	0	0.0	0	611.3	< 1	37.2	< 1	517.4	< 1
Status 2	5,232.6	1	0.0	0	153.5	< 1	0.0	0	1,399.5	< 1	227.8	< 1	3,553.6	< 1
Status 3	0.0	0	1,736.1	< 1	268.4	< 1	5,482.1	1	14.0	< 1	206.3	< 1	1,738.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,561.2	< 1	7.7	< 1	0.0	0	101.3	< 1
Total	5,265.9	1	1,925.2	< 1	421.8	< 1	7,043.3	2	2,032.5	< 1	471.2	< 1	5,910.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	282.1	< 1	15.8	< 1	276.6	< 1	18.7	< 1	0.0	0	1,981.4	< 1
Status 2	0.0	0	5.9	< 1	297.4	< 1	319.5	< 1	0.0	0	25.2	< 1	11,214.8	2
Status 3	281.6	< 1	0.0	0	486.9	< 1	1,072.3	< 1	169.7	< 1	0.0	0	11,455.8	3
Status 4	0.0	0	0.0	0	7.8	< 1	21.2	< 1	50.4	< 1	424,429.3	94	426,178.9	95
Total	281.6	< 1	287.9	< 1	807.9	< 1	1,689.5	< 1	238.9	< 1	424,454.5	94	450,831.0	100

Common Name: WHITE IBIS
Scientific Name: EUDOCIMUS ALBUS

ITIS TSN: 174930
NS EICode: ABNGE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.8	< 1	105.8	< 1	0.0	0	0.0	0	1,003.1	< 1	0.0	0	1,189.7	< 1
Status 2	28,938.6	9	0.0	0	3,359.3	1	0.0	0	544.5	< 1	0.0	0	12,247.4	4
Status 3	0.0	0	2,841.2	< 1	2,680.4	< 1	17,307.3	5	0.0	0	704.4	< 1	20.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	557.6	< 1	0.0	0	0.0	0	0.0	0
Total	30,792.4	10	2,947.1	< 1	6,039.7	2	17,864.9	6	1,547.6	< 1	704.4	< 1	13,457.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,456.3	< 1	0.0	0	1,163.8	< 1	35.5	< 1	0.0	0	7,808.0	2
Status 2	0.0	0	150.5	< 1	14.0	< 1	1,286.7	< 1	0.0	0	0.0	0	46,541.0	15
Status 3	280.9	< 1	0.0	0	0.0	0	1,105.2	< 1	38.9	< 1	0.0	0	24,978.8	8
Status 4	0.0	0	0.0	0	6.7	< 1	0.0	0	0.0	0	237,668.7	75	238,233.0	75
Total	280.9	< 1	2,606.8	< 1	20.6	< 1	3,555.7	1	74.3	< 1	237,668.7	75	317,560.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GLOSSY IBIS

Scientific Name: PLEGADIS FALCINELLUS

ITIS TSN: 174924

NS EICode: ABNGE02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,850.7	1	9.5	< 1	0.0	0	0.0	0	972.8	< 1	0.0	0	491.8	< 1
Status 2	20,456.3	13	0.0	0	3,298.9	2	0.0	0	190.9	< 1	0.0	0	7,215.3	5
Status 3	0.0	0	662.8	< 1	2,453.4	2	10,879.7	7	0.0	0	221.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	552.2	< 1	0.0	0	0.0	0	0.0	0
Total	22,307.0	14	672.3	< 1	5,752.3	4	11,431.8	7	1,163.7	< 1	221.9	< 1	7,707.1	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,627.0	1	0.0	0	1,034.8	< 1	9.9	< 1	0.0	0	5,996.5	4
Status 2	0.0	0	143.5	< 1	3.9	< 1	534.1	< 1	0.0	0	0.0	0	31,842.7	20
Status 3	0.0	0	0.0	0	0.0	0	893.0	< 1	35.3	< 1	0.0	0	15,146.0	10
Status 4	0.0	0	0.0	0	3.2	< 1	0.0	0	0.0	0	104,329.2	66	104,884.6	66
Total	0.0	0	1,770.5	1	7.1	< 1	2,461.9	2	45.2	< 1	104,329.2	66	157,869.8	100

Common Name: CANADA GOOSE

Scientific Name: BRANTA CANADENSIS

ITIS TSN: 174999

NS EICode: ABNJB05030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,865.9	< 1	5,767.6	< 1	14,876.0	< 1	0.0	0	9,375.9	< 1	117.1	< 1	4,416.8	< 1
Status 2	28,771.6	< 1	0.0	0	9,811.4	< 1	0.0	0	13,497.5	< 1	493.4	< 1	26,907.1	< 1
Status 3	0.0	0	133,789.1	2	4,784.9	< 1	23,878.0	< 1	24.2	< 1	1,312.8	< 1	6,681.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,293.9	< 1	27.3	< 1	0.0	0	558.3	< 1
Total	30,637.4	< 1	139,556.7	2	29,472.3	< 1	26,171.9	< 1	22,924.9	< 1	1,923.3	< 1	38,564.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,078.2	< 1	31.5	< 1	2,283.0	< 1	16.2	< 1	0.0	0	40,828.1	< 1
Status 2	491.6	< 1	152.4	< 1	3,297.6	< 1	1,832.4	< 1	0.0	0	27.5	< 1	85,282.3	1
Status 3	3,001.7	< 1	0.0	0	1,575.0	< 1	5,518.4	< 1	2,793.2	< 1	0.0	0	183,359.3	3
Status 4	0.0	0	0.0	0	52.1	< 1	511.6	< 1	982.7	< 1	5,837,527.4	95	5,841,953.3	95
Total	3,493.3	< 1	2,230.6	< 1	4,956.2	< 1	10,145.4	< 1	3,792.2	< 1	5,837,554.9	95	6,151,423.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WOOD DUCK
Scientific Name: AIX SPONSA

ITIS TSN: 175122
NS EICode: ABNJB09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	< 1	514.4	< 1	477.0	< 1	0.0	0	9,275.1	< 1	702.1	< 1	6,422.7	< 1
Status 2	55,003.7	4	0.0	0	374.3	< 1	0.0	0	4,229.2	< 1	907.9	< 1	18,690.9	1
Status 3	0.0	0	11,519.6	< 1	97.9	< 1	22,487.7	2	27.0	< 1	4,395.4	< 1	2,749.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,776.5	< 1	8.3	< 1	0.0	0	164.5	< 1
Total	55,005.0	4	12,034.1	< 1	949.2	< 1	24,264.2	2	13,539.6	1	6,005.4	< 1	28,027.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,181.8	< 1	15.7	< 1	1,633.7	< 1	37.3	< 1	0.0	0	24,261.1	2
Status 2	48.6	< 1	6.7	< 1	402.9	< 1	3,240.6	< 1	0.0	0	281.1	< 1	83,186.0	6
Status 3	2,751.4	< 1	0.0	0	425.9	< 1	9,381.8	< 1	107.1	< 1	0.0	0	53,943.3	4
Status 4	0.0	0	0.0	0	26.6	< 1	54.4	< 1	363.0	< 1	1,166,280.2	88	1,168,673.5	88
Total	2,800.0	< 1	5,188.5	< 1	871.1	< 1	14,310.5	1	507.3	< 1	1,166,561.3	88	1,330,063.9	100

Common Name: AMERICAN BLACK DUCK
Scientific Name: ANAS RUBRIPES

ITIS TSN: 175068
NS EICode: ABNJB10040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	344.9	< 1	43.2	< 1	0.0	0	0.0	0	1,203.1	< 1	39.6	< 1	636.4	< 1
Status 2	6,922.1	2	0.0	0	1,184.1	< 1	0.0	0	1,010.3	< 1	216.0	< 1	3,138.8	1
Status 3	0.0	0	1,072.1	< 1	807.9	< 1	4,595.0	1	14.0	< 1	135.3	< 1	102.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	150.7	< 1	0.2	< 1	0.0	0	88.4	< 1
Total	7,267.0	2	1,115.3	< 1	1,992.1	< 1	4,745.7	2	2,227.6	< 1	390.9	< 1	3,966.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	827.9	< 1	26.6	< 1	415.3	< 1	18.7	< 1	0.0	0	3,555.6	1
Status 2	0.0	0	118.4	< 1	42.3	< 1	316.5	< 1	0.0	0	25.6	< 1	12,974.0	4
Status 3	275.9	< 1	0.0	0	388.5	< 1	1,050.1	< 1	68.9	< 1	0.0	0	8,510.5	3
Status 4	0.0	0	0.0	0	10.1	< 1	0.2	< 1	30.2	< 1	281,842.5	92	282,122.2	92
Total	275.9	< 1	946.3	< 1	467.5	< 1	1,782.1	< 1	117.9	< 1	281,868.0	92	307,162.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MALLARD

Scientific Name: ANAS PLATYRHYNCHOS

ITIS TSN: 175063

NS EICode: ABNJB10060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	345.1	< 1	421.3	< 1	1,067.7	< 1	0.0	0	1,919.2	< 1	48.3	< 1	779.6	< 1
Status 2	9,752.7	1	0.0	0	1,820.0	< 1	0.0	0	2,050.7	< 1	263.4	< 1	4,957.3	< 1
Status 3	0.0	0	8,522.0	1	824.9	< 1	7,928.9	1	14.0	< 1	293.0	< 1	1,835.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,627.9	< 1	7.7	< 1	0.0	0	152.6	< 1
Total	10,097.7	1	8,943.3	1	3,712.6	< 1	9,556.8	1	3,991.5	< 1	604.7	< 1	7,725.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,151.0	< 1	26.7	< 1	562.9	< 1	18.7	< 1	0.0	0	6,340.4	< 1
Status 2	40.0	< 1	118.4	< 1	566.3	< 1	544.5	< 1	0.0	0	40.4	< 1	20,153.6	3
Status 3	498.5	< 1	0.0	0	647.2	< 1	1,196.0	< 1	185.8	< 1	0.0	0	21,945.8	3
Status 4	0.0	0	0.0	0	12.9	< 1	33.9	< 1	115.7	< 1	733,601.2	94	735,551.9	94
Total	538.5	< 1	1,269.4	< 1	1,253.1	< 1	2,337.3	< 1	320.2	< 1	733,641.6	94	783,991.7	100

Common Name: BLUE-WINGED TEAL

Scientific Name: ANAS DISCORS

ITIS TSN: 175086

NS EICode: ABNJB10130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	344.1	1	9.8	< 1	0.0	0	0.0	0	15.5	< 1	0.0	0	121.2	< 1
Status 2	3,500.8	12	0.0	0	1,361.7	5	0.0	0	90.5	< 1	0.0	0	583.3	2
Status 3	0.0	0	222.8	< 1	843.5	3	1,658.0	6	0.0	0	2.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	3,844.9	13	232.7	< 1	2,205.2	7	1,658.0	6	105.9	< 1	2.8	< 1	704.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	118.2	< 1	0.0	0	167.9	< 1	0.0	0	0.0	0	776.6	3
Status 2	0.0	0	118.3	< 1	1.2	< 1	65.6	< 1	0.0	0	0.0	0	5,721.3	19
Status 3	0.0	0	0.0	0	0.0	0	13.0	< 1	4.2	< 1	0.0	0	2,744.3	9
Status 4	0.0	0	0.0	0	< 0.1	< 1	0.0	0	0.0	0	20,465.6	69	20,465.6	69
Total	0.0	0	236.4	< 1	1.3	< 1	246.4	< 1	4.2	< 1	20,465.6	69	29,707.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GADWALL
Scientific Name: ANAS STREPERA

ITIS TSN: 175073
NS EICode: ABNJB10160

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,433.3	2	0.0	0	0.0	0	0.0	0	24.5	< 1	0.0	0	340.7	< 1
Status 2	10,102.5	13	0.0	0	3,552.1	5	0.0	0	45.0	< 1	0.0	0	2,233.9	3
Status 3	0.0	0	47.6	< 1	2,796.7	4	3,015.5	4	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	11,535.8	15	47.6	< 1	6,348.8	8	3,015.5	4	69.5	< 1	0.0	0	2,574.6	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	399.7	< 1	0.0	0	372.8	< 1	0.0	0	0.0	0	2,570.9	3
Status 2	0.0	0	146.4	< 1	1.7	< 1	185.3	< 1	0.0	0	0.0	0	16,267.0	21
Status 3	0.0	0	0.0	0	0.0	0	59.7	< 1	21.9	< 1	0.0	0	5,941.3	8
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	51,418.9	67	51,418.9	67
Total	0.0	0	546.1	< 1	1.7	< 1	617.8	< 1	21.9	< 1	51,418.9	67	76,198.1	100

Common Name: HOODED MERGANSER
Scientific Name: LOPHODYTES CUCULLATUS

ITIS TSN: 175183
NS EICode: ABNJB20010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	34.9	< 1	308.6	< 1	0.0	0	0.0	0	9,164.0	< 1	702.1	< 1	6,394.4	< 1
Status 2	54,525.8	5	0.0	0	83.5	< 1	0.0	0	3,681.8	< 1	895.1	< 1	17,724.2	2
Status 3	0.0	0	7,524.1	< 1	258.1	< 1	19,752.6	2	27.0	< 1	4,349.1	< 1	101.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	60.5	< 1	0.0	0	0.0	0	100.0	< 1
Total	54,560.7	5	7,832.7	< 1	341.6	< 1	19,813.1	2	12,872.8	1	5,946.2	< 1	24,320.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,206.1	< 1	26.6	< 1	1,500.0	< 1	36.3	< 1	0.0	0	23,372.9	2
Status 2	12.9	< 1	8.0	< 1	80.2	< 1	3,153.5	< 1	0.0	0	281.1	< 1	80,446.1	7
Status 3	2,645.6	< 1	0.0	0	366.9	< 1	9,335.3	< 1	34.4	< 1	0.0	0	44,394.8	4
Status 4	0.0	0	0.0	0	27.6	< 1	1.2	< 1	324.5	< 1	934,643.3	86	935,157.1	86
Total	2,658.5	< 1	5,214.1	< 1	501.3	< 1	13,990.0	1	395.1	< 1	934,924.4	86	1,083,370.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK VULTURE
Scientific Name: CORAGYPS ATRATUS

ITIS TSN: 175272
NS EICode: ABNKA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.4	< 1	2,399.9	< 1	695.3	< 1	0.0	0	4,001.0	< 1	3.5	< 1	645.8	< 1
Status 2	21,606.8	< 1	0.0	0	7,687.5	< 1	0.0	0	4,153.1	< 1	268.9	< 1	13,179.5	< 1
Status 3	0.0	0	27,996.7	< 1	1,618.6	< 1	87,524.8	2	17.2	< 1	5,194.3	< 1	19,740.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	726.1	< 1	9.7	< 1	0.0	0	1,093.1	< 1
Total	23,444.1	< 1	30,396.5	< 1	10,001.3	< 1	88,250.9	2	8,181.0	< 1	5,466.7	< 1	34,659.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,518.5	< 1	0.4	< 1	1,821.5	< 1	169.7	< 1	0.0	0	13,092.9	< 1
Status 2	64.0	< 1	274.1	< 1	741.4	< 1	1,529.4	< 1	0.0	0	24.9	< 1	49,529.5	< 1
Status 3	4,842.1	< 1	0.0	0	645.7	< 1	1,995.2	< 1	2,617.1	< 1	0.0	0	152,192.2	3
Status 4	0.0	0	0.0	0	291.6	< 1	124.1	< 1	747.7	< 1	5,344,330.4	96	5,347,322.7	96
Total	4,906.1	< 1	1,792.5	< 1	1,679.0	< 1	5,470.2	< 1	3,534.6	< 1	5,344,355.3	96	5,562,137.3	100

Common Name: TURKEY VULTURE
Scientific Name: CATHARTES AURA

ITIS TSN: 175265
NS EICode: ABNKA02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,875.7	< 1	41,762.3	< 1	111,227.6	< 1	0.0	0	26,267.8	< 1	914.0	< 1	9,217.7	< 1
Status 2	139,691.2	1	0.0	0	25,427.3	< 1	0.0	0	28,130.8	< 1	1,592.9	< 1	98,079.6	< 1
Status 3	0.0	0	458,935.5	4	6,973.7	< 1	158,076.3	1	51.6	< 1	34,999.4	< 1	32,740.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,752.7	< 1	47.5	< 1	0.0	0	1,687.1	< 1
Total	141,566.9	1	500,697.8	4	143,628.6	1	160,828.9	1	54,497.6	< 1	37,506.2	< 1	141,724.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,058.4	< 1	33.5	< 1	11,881.4	< 1	244.4	< 1	0.0	0	213,482.8	2
Status 2	720.5	< 1	293.9	< 1	10,001.6	< 1	8,188.9	< 1	0.0	0	338.9	< 1	312,465.6	2
Status 3	17,913.2	< 1	0.0	0	2,579.5	< 1	16,714.4	< 1	4,460.4	< 1	0.0	0	733,444.3	6
Status 4	0.0	0	0.0	0	359.0	< 1	858.2	< 1	1,642.7	< 1	11,334,839.8	90	11,342,187.0	90
Total	18,633.7	< 1	10,352.3	< 1	12,973.6	< 1	37,643.0	< 1	6,347.5	< 1	11,335,178.7	90	12,601,579.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: OSPREY

Scientific Name: *PANDION HALIAETUS*

ITIS TSN: 175590

NS EICode: ABNKC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.1	< 1	1,336.3	< 1	0.0	0	0.0	0	3,405.5	< 1	750.1	< 1	2,859.5	< 1
Status 2	43,102.2	5	0.0	0	5,909.1	< 1	0.0	0	9,499.1	1	381.7	< 1	19,230.8	2
Status 3	0.0	0	6,640.7	< 1	6,941.5	< 1	26,554.1	3	36.4	< 1	467.9	< 1	5,204.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,699.8	< 1	43.6	< 1	0.0	0	68.6	< 1
Total	44,939.3	6	7,977.1	1	12,850.7	2	29,253.9	4	12,984.5	2	1,599.7	< 1	27,363.5	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,218.6	< 1	0.0	0	1,843.7	< 1	0.0	0	0.0	0	17,250.7	2
Status 2	0.0	0	170.8	< 1	855.8	< 1	3,371.0	< 1	0.0	0	228.3	< 1	82,748.8	11
Status 3	1,281.4	< 1	0.0	0	446.5	< 1	6,836.3	< 1	61.7	< 1	0.0	0	54,471.2	7
Status 4	0.0	0	0.0	0	64.5	< 1	42.4	< 1	13.0	< 1	629,571.0	80	632,502.8	80
Total	1,281.4	< 1	5,389.4	< 1	1,366.8	< 1	12,093.4	2	74.6	< 1	629,799.3	80	786,973.4	100

Common Name: MISSISSIPPI KITE

Scientific Name: *ICTINIA MISSISSIPPIENSIS*

ITIS TSN: 554268

NS EICode: ABNKC09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	3,426.8	< 1	0.0	0	3,668.9	< 1
Status 2	6,832.4	< 1	0.0	0	0.0	0	0.0	0	4,731.4	< 1	1,235.7	< 1	7,130.9	< 1
Status 3	0.0	0	0.0	0	40.1	< 1	28,997.0	< 1	51.8	< 1	0.0	0	21,224.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2.2	< 1	0.3	< 1	0.0	0	691.4	< 1
Total	6,832.4	< 1	0.0	0	40.1	< 1	28,999.2	< 1	8,210.2	< 1	1,235.7	< 1	32,715.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,203.3	< 1	0.0	0	0.0	0	8,298.9	< 1
Status 2	0.0	0	0.0	0	41.7	< 1	915.9	< 1	0.0	0	0.0	0	20,888.0	< 1
Status 3	14,488.7	< 1	0.0	0	300.7	< 1	6,951.5	< 1	263.2	< 1	0.0	0	72,317.8	2
Status 4	0.0	0	0.0	0	0.0	0	135.5	< 1	13.1	< 1	2,816,719.1	96	2,817,561.6	97
Total	14,488.7	< 1	0.0	0	342.4	< 1	9,206.3	< 1	276.3	< 1	2,816,719.1	96	2,919,066.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BALD EAGLE

Scientific Name: HALIAEETUS LEUCOCEPHALUS

ITIS TSN: 175420

NS EICode: ABNKC10010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,875.5	< 1	4,707.4	< 1	0.0	0	0.0	0	1,356.7	< 1	916.6	< 1	3,764.3	< 1
Status 2	74,687.9	6	0.0	0	2,700.5	< 1	0.0	0	8,119.9	< 1	28.0	< 1	28,811.1	2
Status 3	0.0	0	18,465.8	2	5,170.8	< 1	39,215.1	3	0.0	0	1,514.6	< 1	7,724.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,324.9	< 1	0.0	0	0.0	0	109.8	< 1
Total	76,563.4	6	23,173.1	2	7,871.3	< 1	41,540.0	3	9,476.6	< 1	2,459.2	< 1	40,409.1	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,561.3	< 1	0.0	0	1,144.4	< 1	0.0	0	0.0	0	21,326.0	2
Status 2	0.0	0	0.0	0	170.8	< 1	4,450.6	< 1	0.0	0	339.4	< 1	119,308.1	10
Status 3	256.4	< 1	0.0	0	494.6	< 1	8,616.2	< 1	35.1	< 1	0.0	0	81,492.5	7
Status 4	0.0	0	0.0	0	19.9	< 1	0.0	0	0.0	0	1,005,923.1	82	1,008,377.6	82
Total	256.4	< 1	7,561.3	< 1	685.3	< 1	14,211.3	1	35.1	< 1	1,006,262.5	82	1,230,504.3	100

Common Name: NORTHERN HARRIER

Scientific Name: CIRCUS CYANEUS

ITIS TSN: 175430

NS EICode: ABNKC11010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,818.2	1	0.0	0	0.0	0	0.0	0	104.1	< 1	0.0	0	433.2	< 1
Status 2	18,756.4	14	0.0	0	5,202.7	4	0.0	0	115.4	< 1	0.0	0	4,036.2	3
Status 3	0.0	0	190.1	< 1	4,958.3	4	6,655.6	5	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	20,574.5	15	190.1	< 1	10,161.0	8	6,655.6	5	219.5	< 1	0.0	0	4,469.4	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	593.6	< 1	0.0	0	435.1	< 1	0.0	0	0.0	0	3,384.2	3
Status 2	0.0	0	145.1	< 1	1.1	< 1	403.7	< 1	0.0	0	1.4	< 1	28,662.0	21
Status 3	0.0	0	0.0	0	0.0	0	397.9	< 1	34.8	< 1	0.0	0	12,236.7	9
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	90,319.8	67	90,319.8	67
Total	0.0	0	738.7	< 1	1.1	< 1	1,236.7	< 1	34.8	< 1	90,321.2	67	134,602.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SHARP-SHINNED HAWK
Scientific Name: ACCIPITER STRIATUS

ITIS TSN: 175304
NS EICode: ABNKC12020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	29,068.4	< 1	111,174.3	2	0.0	0	14,124.2	< 1	0.0	0	1,925.3	< 1
Status 2	3,856.1	< 1	0.0	0	19,809.5	< 1	0.0	0	20,933.6	< 1	346.2	< 1	37,774.6	< 1
Status 3	0.0	0	407,395.0	6	189.4	< 1	63,164.9	< 1	0.0	0	1,190.3	< 1	29,220.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,007.6	< 1	45.8	< 1	0.0	0	902.2	< 1
Total	3,856.1	< 1	436,463.4	6	131,173.2	2	64,172.4	< 1	35,103.6	< 1	1,536.5	< 1	69,822.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	8.9	< 1	3,335.5	< 1	1.3	< 1	0.0	0	159,637.8	2
Status 2	718.3	< 1	0.0	0	9,561.7	< 1	1,888.9	< 1	0.0	0	0.0	0	94,889.1	1
Status 3	7,068.5	< 1	0.0	0	2,103.9	< 1	4,936.9	< 1	1,859.6	< 1	0.0	0	517,128.6	7
Status 4	0.0	0	0.0	0	0.0	0	797.0	< 1	946.4	< 1	6,475,974.2	89	6,479,673.2	89
Total	7,786.8	< 1	0.0	0	11,674.5	< 1	10,958.3	< 1	2,807.3	< 1	6,475,974.2	89	7,251,328.7	100

Common Name: COOPER'S HAWK
Scientific Name: ACCIPITER COOPERII

ITIS TSN: 175309
NS EICode: ABNKC12040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	34,289.1	< 1	111,174.3	< 1	0.0	0	24,693.1	< 1	909.8	< 1	8,201.5	< 1
Status 2	41,172.3	< 1	0.0	0	19,809.5	< 1	0.0	0	26,834.0	< 1	1,588.9	< 1	76,145.6	< 1
Status 3	0.0	0	429,484.1	4	232.0	< 1	93,684.2	< 1	51.3	< 1	34,956.8	< 1	31,802.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,042.0	< 1	47.0	< 1	0.0	0	1,610.7	< 1
Total	41,172.3	< 1	463,773.2	4	131,215.9	1	94,726.3	< 1	51,625.4	< 1	37,455.5	< 1	117,760.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	9.5	< 1	10,554.3	< 1	244.4	< 1	0.0	0	190,076.0	2
Status 2	718.3	< 1	0.0	0	9,735.9	< 1	2,967.3	< 1	0.0	0	326.9	< 1	179,298.7	2
Status 3	17,807.4	< 1	0.0	0	2,151.3	< 1	15,258.5	< 1	4,356.5	< 1	0.0	0	629,785.0	5
Status 4	0.0	0	0.0	0	123.7	< 1	839.9	< 1	1,630.9	< 1	10,561,209.8	91	10,566,504.0	91
Total	18,525.7	< 1	0.0	0	12,020.3	< 1	29,620.0	< 1	6,231.8	< 1	10,561,536.7	91	11,565,663.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED-SHOULDERED HAWK
Scientific Name: *BUTEO LINEATUS*

ITIS TSN: 175359
NS EICode: ABNKC19030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.6	< 1	21,143.8	< 1	24,547.5	< 1	0.0	0	19,177.1	< 1	700.0	< 1	7,779.5	< 1
Status 2	109,700.3	2	0.0	0	4,930.1	< 1	0.0	0	21,248.3	< 1	1,288.8	< 1	78,182.1	1
Status 3	0.0	0	224,105.0	4	647.5	< 1	86,519.4	1	34.8	< 1	30,822.7	< 1	15,081.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,255.8	< 1	37.6	< 1	0.0	0	686.2	< 1
Total	109,701.9	2	245,248.8	4	30,125.1	< 1	88,775.2	1	40,497.8	< 1	32,811.5	< 1	101,729.3	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,372.4	< 1	13.3	< 1	8,165.0	< 1	139.6	< 1	0.0	0	89,039.9	1
Status 2	519.1	< 1	22.3	< 1	1,626.3	< 1	5,400.1	< 1	0.0	0	242.7	< 1	223,160.1	4
Status 3	13,576.6	< 1	0.0	0	1,536.1	< 1	9,524.9	< 1	1,717.1	< 1	0.0	0	383,565.6	6
Status 4	0.0	0	0.0	0	67.6	< 1	558.6	< 1	856.4	< 1	5,237,318.3	88	5,241,780.5	88
Total	14,095.7	< 1	7,394.8	< 1	3,243.3	< 1	23,648.6	< 1	2,713.1	< 1	5,237,561.1	88	5,937,546.0	100

Common Name: BROAD-WINGED HAWK
Scientific Name: *BUTEO PLATYPTERUS*

ITIS TSN: 175365
NS EICode: ABNKC19050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	25,377.1	< 1	94,165.7	2	0.0	0	9,280.9	< 1	0.0	0	2,182.8	< 1
Status 2	2,618.5	< 1	0.0	0	15,161.9	< 1	0.0	0	14,384.3	< 1	442.4	< 1	25,626.4	< 1
Status 3	0.0	0	368,500.0	9	136.3	< 1	6,425.2	< 1	11.5	< 1	668.5	< 1	5,563.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	739.2	< 1	39.8	< 1	0.0	0	79.6	< 1
Total	2,618.5	< 1	393,877.1	9	109,463.9	3	7,164.4	< 1	23,716.4	< 1	1,111.0	< 1	33,452.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	6.2	< 1	2,527.4	< 1	0.3	< 1	0.0	0	133,540.3	3
Status 2	590.1	< 1	0.0	0	8,101.9	< 1	1,392.8	< 1	0.0	0	0.0	0	68,318.3	2
Status 3	2,951.6	< 1	0.0	0	1,084.5	< 1	3,541.5	< 1	1,000.6	< 1	0.0	0	389,883.2	9
Status 4	0.0	0	0.0	0	0.0	0	625.8	< 1	518.7	< 1	3,737,316.0	86	3,739,318.9	86
Total	3,541.6	< 1	0.0	0	9,192.6	< 1	8,087.5	< 1	1,519.6	< 1	3,737,316.0	86	4,331,060.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED-TAILED HAWK
Scientific Name: BUTEO JAMAICENSIS

ITIS TSN: 175350
NS EICode: ABNKC19110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	23.7	< 1	21,967.3	< 1	37,957.0	< 1	0.0	0	14,430.2	< 1	123.2	< 1	1,999.9	< 1
Status 2	65,276.6	< 1	0.0	0	8,684.6	< 1	0.0	0	22,148.6	< 1	779.3	< 1	73,175.3	< 1
Status 3	0.0	0	263,740.1	2	1,441.8	< 1	121,906.1	1	30.2	< 1	29,662.7	< 1	30,830.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,027.7	< 1	46.4	< 1	0.0	0	1,505.7	< 1
Total	65,300.2	< 1	285,707.4	3	48,083.4	< 1	122,933.8	1	36,655.5	< 1	30,565.3	< 1	107,511.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,377.2	< 1	8.9	< 1	7,543.5	< 1	187.5	< 1	0.0	0	86,618.3	< 1
Status 2	540.2	< 1	16.7	< 1	4,437.1	< 1	3,754.7	< 1	0.0	0	51.8	< 1	178,865.0	2
Status 3	14,645.4	< 1	0.0	0	2,137.1	< 1	3,587.9	< 1	4,368.7	< 1	0.0	0	472,351.0	4
Status 4	0.0	0	0.0	0	105.2	< 1	659.1	< 1	1,307.7	< 1	9,924,814.1	93	9,929,465.9	93
Total	15,185.6	< 1	2,393.8	< 1	6,688.4	< 1	15,545.3	< 1	5,863.9	< 1	9,924,865.9	93	10,667,300.2	100

Common Name: AMERICAN KESTREL
Scientific Name: FALCO SPARVERIUS

ITIS TSN: 175622
NS EICode: ABNKD06020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.2	< 1	876.1	< 1	1,628.6	< 1	0.0	0	3,334.1	< 1	3.5	< 1	198.1	< 1
Status 2	18,596.8	< 1	0.0	0	5,612.0	< 1	0.0	0	3,368.5	< 1	263.8	< 1	10,863.7	< 1
Status 3	0.0	0	22,394.5	< 1	550.4	< 1	72,264.5	1	16.9	< 1	4,119.5	< 1	18,970.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	716.6	< 1	9.4	< 1	0.0	0	1,050.3	< 1
Total	20,434.0	< 1	23,270.6	< 1	7,790.9	< 1	72,981.1	1	6,728.9	< 1	4,386.8	< 1	31,082.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,311.9	< 1	0.2	< 1	1,646.1	< 1	156.1	< 1	0.0	0	10,991.8	< 1
Status 2	56.0	< 1	149.3	< 1	578.3	< 1	1,411.5	< 1	0.0	0	24.9	< 1	40,924.7	< 1
Status 3	4,767.8	< 1	0.0	0	585.4	< 1	1,969.0	< 1	2,540.3	< 1	0.0	0	128,178.9	2
Status 4	0.0	0	0.0	0	60.3	< 1	117.6	< 1	724.0	< 1	5,047,801.6	97	5,050,479.7	97
Total	4,823.9	< 1	1,461.2	< 1	1,224.1	< 1	5,144.2	< 1	3,420.3	< 1	5,047,826.5	97	5,230,575.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PEREGRINE FALCON
Scientific Name: *FALCO PEREGRINUS*

ITIS TSN: 175604
NS EICode: ABNKD06070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	304.8	< 1	1,436.9	< 1	0.0	0	320.9	< 1	0.0	0	16.1	< 1
Status 2	0.0	0	0.0	0	1,856.7	< 1	0.0	0	241.9	< 1	7.2	< 1	414.2	< 1
Status 3	0.0	0	10,956.2	2	22.2	< 1	6.4	< 1	0.0	0	2.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	12.2	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	11,261.0	2	3,315.8	< 1	18.5	< 1	562.9	< 1	9.5	< 1	430.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	46.4	< 1	< 0.1	< 1	0.0	0	2,125.3	< 1
Status 2	55.8	< 1	0.0	0	103.8	< 1	105.9	< 1	0.0	0	0.0	0	2,785.5	< 1
Status 3	197.2	< 1	0.0	0	0.0	0	12.2	< 1	0.0	0	0.0	0	11,196.5	2
Status 4	0.0	0	0.0	0	0.0	0	38.7	< 1	119.4	< 1	463,695.1	97	463,865.4	97
Total	253.0	< 1	0.0	0	103.8	< 1	203.3	< 1	119.5	< 1	463,695.1	97	479,972.6	100

Common Name: RING-NECKED PHEASANT
Scientific Name: *PHASIANUS COLCHICUS*

ITIS TSN: 175905
NS EICode: ABNLC07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	28.4	< 1	0.0	0	8.0	< 1
Status 2	271.1	5	0.0	0	1,524.9	28	0.0	0	5.0	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	2,074.8	39	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	271.1	5	0.0	0	3,599.6	67	0.0	0	33.4	< 1	0.0	0	8.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2.1	< 1	0.0	0	0.0	0	0.0	0	0.0	0	38.4	< 1
Status 2	0.0	0	0.0	0	0.0	0	5.0	< 1	0.0	0	0.0	0	1,806.0	34
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	2,074.9	39
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,450.5	27	1,450.5	27
Total	0.0	0	2.1	< 1	0.0	0	5.0	< 1	< 0.1	< 1	1,450.5	27	5,369.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RUFFED GROUSE
Scientific Name: *BONASA UMBELLUS*

ITIS TSN: 175790
NS EICode: ABNLC11010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	16,950.7	3	66,612.8	11	0.0	0	1,052.6	< 1	0.0	0	527.6	< 1
Status 2	0.0	0	0.0	0	9,675.2	2	0.0	0	1,493.8	< 1	6.3	< 1	3,447.4	< 1
Status 3	0.0	0	170,111.0	28	18.5	< 1	0.0	0	0.0	0	59.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	20.0	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	187,061.7	31	76,306.4	12	20.0	< 1	2,546.4	< 1	65.7	< 1	3,974.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,561.8	< 1	1.1	< 1	0.0	0	86,706.5	14
Status 2	141.5	< 1	0.0	0	4,973.2	< 1	610.5	< 1	0.0	0	0.0	0	20,347.9	3
Status 3	518.9	< 1	0.0	0	0.0	0	2,818.2	< 1	0.0	0	0.0	0	173,525.9	28
Status 4	0.0	0	0.0	0	0.0	0	151.8	< 1	6.8	< 1	329,993.9	54	330,172.6	54
Total	660.5	< 1	0.0	0	4,973.2	< 1	5,142.2	< 1	7.9	< 1	329,993.9	54	610,752.8	100

Common Name: WILD TURKEY
Scientific Name: *MELEAGRIS GALLOPAVO*

ITIS TSN: 176136
NS EICode: ABNLC14010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	36,595.4	< 1	93,442.8	1	0.0	0	14,204.9	< 1	132.9	< 1	2,581.7	< 1
Status 2	40,877.3	< 1	0.0	0	14,504.9	< 1	0.0	0	19,833.0	< 1	1,151.8	< 1	68,082.8	1
Status 3	0.0	0	397,840.1	6	163.5	< 1	79,545.4	1	31.2	< 1	18,477.1	< 1	23,966.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	933.8	< 1	44.0	< 1	0.0	0	627.8	< 1
Total	40,877.3	< 1	434,435.5	7	108,111.2	2	80,479.2	1	34,113.2	< 1	19,761.8	< 1	95,258.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,719.1	< 1	8.3	< 1	8,285.5	< 1	120.1	< 1	0.0	0	157,090.5	2
Status 2	568.2	< 1	12.4	< 1	8,649.8	< 1	2,128.7	< 1	0.0	0	0.0	0	155,809.0	2
Status 3	10,642.7	< 1	0.0	0	1,567.6	< 1	5,332.8	< 1	1,799.1	< 1	0.0	0	539,366.1	8
Status 4	0.0	0	0.0	0	44.3	< 1	703.6	< 1	898.1	< 1	5,541,069.6	87	5,544,321.2	87
Total	11,210.9	< 1	1,731.5	< 1	10,270.0	< 1	16,450.6	< 1	2,817.3	< 1	5,541,069.6	87	6,396,586.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN BOBWHITE

Scientific Name: COLINUS VIRGINIANUS

ITIS TSN: 175863

NS EICode: ABNLC21020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	876.1	< 1	1,628.2	< 1	0.0	0	2,276.5	< 1	0.2	< 1	206.1	< 1
Status 2	8,305.6	< 1	0.0	0	1,900.2	< 1	0.0	0	2,785.8	< 1	262.9	< 1	6,979.9	< 1
Status 3	0.0	0	22,125.2	< 1	145.4	< 1	60,275.3	1	16.9	< 1	4,118.3	< 1	18,946.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	151.7	< 1	9.3	< 1	0.0	0	983.9	< 1
Total	8,326.0	< 1	23,001.3	< 1	3,673.7	< 1	60,426.9	1	5,088.4	< 1	4,381.4	< 1	27,116.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	52.9	< 1	0.2	< 1	729.1	< 1	156.1	< 1	0.0	0	5,945.7	< 1
Status 2	56.0	< 1	4.4	< 1	539.0	< 1	962.1	< 1	0.0	0	24.8	< 1	21,820.5	< 1
Status 3	4,765.9	< 1	0.0	0	524.6	< 1	1,370.3	< 1	2,540.2	< 1	0.0	0	114,828.3	2
Status 4	0.0	0	0.0	0	58.3	< 1	116.6	< 1	721.6	< 1	4,764,909.4	97	4,766,950.8	97
Total	4,821.9	< 1	57.3	< 1	1,122.1	< 1	3,178.1	< 1	3,417.8	< 1	4,764,934.2	97	4,909,545.3	100

Common Name: BLACK RAIL

Scientific Name: LATERALLUS JAMAICENSIS

ITIS TSN: 176263

NS EICode: ABNME03040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	9.9	< 1	0.0	0	0.0	0	985.4	< 1	0.0	0	436.1	< 1
Status 2	17,820.0	17	0.0	0	3,599.3	3	0.0	0	253.4	< 1	0.0	0	3,973.6	4
Status 3	0.0	0	278.1	< 1	2,770.7	3	8,407.6	8	0.0	0	123.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.4	< 1	0.0	0	0.0	0	0.0	0
Total	19,636.7	19	288.0	< 1	6,369.9	6	8,949.0	9	1,238.9	1	123.0	< 1	4,409.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,284.5	1	0.0	0	891.1	< 1	0.0	0	0.0	0	5,423.6	5
Status 2	0.0	0	140.6	< 1	1.2	< 1	462.2	< 1	0.0	0	0.0	0	26,250.2	25
Status 3	0.0	0	0.0	0	0.0	0	603.3	< 1	34.8	< 1	0.0	0	12,217.5	12
Status 4	0.0	0	0.0	0	3.7	< 1	0.0	0	0.0	0	60,242.9	58	60,787.9	58
Total	0.0	0	1,425.1	1	4.9	< 1	1,956.5	2	34.8	< 1	60,242.9	58	104,679.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CLAPPER RAIL

Scientific Name: *RALLUS LONGIROSTRIS*

ITIS TSN: 176209

NS EICode: ABNME05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	0.0	0	0.0	0	0.0	0	983.1	1	0.0	0	433.1	< 1
Status 2	13,739.9	15	0.0	0	3,467.4	4	0.0	0	184.6	< 1	0.0	0	3,717.0	4
Status 3	0.0	0	160.0	< 1	2,457.4	3	6,198.5	7	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.4	< 1	0.0	0	0.0	0	0.0	0
Total	15,556.6	17	160.0	< 1	5,924.8	6	6,739.8	7	1,167.7	1	0.0	0	4,150.1	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,096.5	1	0.0	0	887.8	< 1	0.0	0	0.0	0	5,217.0	6
Status 2	0.0	0	140.6	< 1	1.1	< 1	464.3	< 1	0.0	0	0.3	< 1	21,715.2	23
Status 3	0.0	0	0.0	0	0.0	0	597.0	< 1	34.8	< 1	0.0	0	9,447.7	10
Status 4	0.0	0	0.0	0	2.3	< 1	0.0	0	0.0	0	57,294.0	61	57,837.6	61
Total	0.0	0	1,237.1	1	3.3	< 1	1,949.0	2	34.8	< 1	57,294.3	61	94,217.5	100

Common Name: KING RAIL

Scientific Name: *RALLUS ELEGANS*

ITIS TSN: 176207

NS EICode: ABNME05020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	1	9.9	< 1	0.0	0	0.0	0	1,003.8	< 1	5.9	< 1	437.5	< 1
Status 2	18,314.8	15	0.0	0	3,551.0	3	0.0	0	304.4	< 1	0.0	0	4,256.8	3
Status 3	0.0	0	281.9	< 1	2,712.9	2	8,751.4	7	0.5	< 1	146.3	< 1	341.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,845.7	1	0.0	0	0.0	0	5.7	< 1
Total	20,131.5	16	291.8	< 1	6,263.9	5	10,597.1	8	1,308.6	1	152.2	< 1	5,041.8	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,283.2	1	2.3	< 1	904.8	< 1	0.0	0	0.0	0	5,464.1	4
Status 2	0.0	0	140.6	< 1	32.3	< 1	481.0	< 1	0.0	0	0.6	< 1	27,081.5	22
Status 3	6.5	< 1	0.0	0	56.4	< 1	622.4	< 1	61.8	< 1	0.0	0	12,981.9	10
Status 4	0.0	0	0.0	0	3.7	< 1	6.8	< 1	0.5	< 1	78,303.1	62	80,165.4	64
Total	6.5	< 1	1,423.8	1	94.8	< 1	2,015.0	2	62.3	< 1	78,303.7	62	125,692.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: VIRGINIA RAIL
Scientific Name: RALLUS LIMICOLA

ITIS TSN: 176221
NS EICode: ABNME05030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	0.2	< 1	0.0	0	0.0	0	976.7	< 1	0.0	0	433.1	< 1
Status 2	17,199.2	17	0.0	0	3,551.0	4	0.0	0	179.2	< 1	0.0	0	3,876.5	4
Status 3	0.0	0	209.0	< 1	2,712.9	3	8,352.9	8	0.0	0	123.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.4	< 1	0.0	0	0.0	0	0.0	0
Total	19,015.8	19	209.2	< 1	6,263.9	6	8,894.3	9	1,155.9	1	123.0	< 1	4,309.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,283.0	1	0.0	0	890.5	< 1	0.0	0	0.0	0	5,400.1	5
Status 2	0.0	0	140.6	< 1	1.2	< 1	456.5	< 1	0.0	0	0.0	0	25,404.1	26
Status 3	0.0	0	0.0	0	0.0	0	596.5	< 1	34.8	< 1	0.0	0	12,029.1	12
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	55,022.2	56	55,564.4	56
Total	0.0	0	1,423.6	1	2.0	< 1	1,943.5	2	34.8	< 1	55,022.2	56	98,397.7	100

Common Name: COMMON MOORHEN
Scientific Name: GALLINULA CHLOROPUS

ITIS TSN: 176284
NS EICode: ABNME13010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	9.9	< 1	0.0	0	0.0	0	1,003.2	< 1	5.9	< 1	437.5	< 1
Status 2	18,284.3	16	0.0	0	3,551.0	3	0.0	0	279.7	< 1	0.0	0	4,114.0	4
Status 3	0.0	0	278.1	< 1	2,712.9	2	8,427.8	7	0.5	< 1	141.3	< 1	1.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	541.4	< 1	0.0	0	0.0	0	1.0	< 1
Total	20,101.0	18	288.0	< 1	6,263.9	5	8,969.1	8	1,283.4	1	147.2	< 1	4,553.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,283.2	1	0.0	0	901.2	< 1	0.0	0	0.0	0	5,457.6	5
Status 2	0.0	0	140.6	< 1	1.7	< 1	474.3	< 1	0.0	0	0.6	< 1	26,846.3	24
Status 3	6.5	< 1	0.0	0	3.7	< 1	619.6	< 1	61.7	< 1	0.0	0	12,253.3	11
Status 4	0.0	0	0.0	0	3.7	< 1	0.0	0	0.2	< 1	68,996.3	60	69,542.6	61
Total	6.5	< 1	1,423.8	1	9.1	< 1	1,995.0	2	61.8	< 1	68,997.0	60	114,099.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN COOT
Scientific Name: FULICA AMERICANA

ITIS TSN: 176292
NS EICode: ABNME14020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.7	< 1	0.0	0	0.0	0	44.5	< 1	0.0	0	3.8	< 1
Status 2	2,579.7	9	0.0	0	179.4	< 1	0.0	0	93.3	< 1	0.0	0	542.1	2
Status 3	0.0	0	275.7	< 1	0.0	0	4,493.6	15	0.0	0	140.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	2,579.7	9	285.4	< 1	179.4	< 1	4,493.6	15	137.8	< 1	140.3	< 1	545.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	46.4	< 1	0.0	0	0.0	0	104.4	< 1
Status 2	0.0	0	119.2	< 1	0.0	0	408.9	1	0.0	0	0.0	0	3,922.5	13
Status 3	0.0	0	0.0	0	0.0	0	402.2	1	0.0	0	0.0	0	5,311.8	18
Status 4	0.0	0	0.0	0	5.8	< 1	0.0	0	0.0	0	20,342.0	69	20,347.7	69
Total	0.0	0	119.2	< 1	5.8	< 1	857.5	3	0.0	0	20,342.0	69	29,686.4	100

Common Name: WILSON'S PLOVER
Scientific Name: CHARADRIUS WILSONIA

ITIS TSN: 176517
NS EICode: ABNNB03040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	278.3	2	0.0	0	0.0	0
Status 2	606.9	4	0.0	0	2,165.0	13	0.0	0	394.7	2	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	3,052.4	18	439.5	3	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.9	< 1	0.0	0	0.0	0	0.0	0
Total	606.9	4	0.0	0	5,217.5	31	463.3	3	673.0	4	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	410.9	2	0.0	0	53.0	< 1	0.0	0	0.0	0	742.2	4
Status 2	0.0	0	4.5	< 1	0.0	0	4.8	< 1	0.0	0	0.0	0	3,175.9	19
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,491.9	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9,188.0	55	9,211.9	55
Total	0.0	0	415.4	2	0.0	0	57.8	< 1	0.0	0	9,188.0	55	16,621.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PIPING PLOVER

Scientific Name: CHARADRIUS MELODUS

ITIS TSN: 176507

NS EICode: ABNNB03070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	278.3	2	0.0	0	0.0	0
Status 2	606.9	4	0.0	0	2,165.0	13	0.0	0	394.7	2	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	3,052.4	18	439.5	3	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.9	<1	0.0	0	0.0	0	0.0	0
Total	606.9	4	0.0	0	5,217.5	31	463.3	3	673.0	4	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	410.9	2	0.0	0	53.0	<1	0.0	0	0.0	0	742.2	4
Status 2	0.0	0	4.5	<1	0.0	0	4.8	<1	0.0	0	0.0	0	3,175.9	19
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,491.9	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9,188.0	55	9,211.9	55
Total	0.0	0	415.4	2	0.0	0	57.8	<1	0.0	0	9,188.0	55	16,621.9	100

Common Name: KILLDEER

Scientific Name: CHARADRIUS VOCIFERUS

ITIS TSN: 176520

NS EICode: ABNNB03090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	<1	293.5	<1	1,352.6	<1	0.0	0	488.7	<1	0.2	<1	22.6	<1
Status 2	1,734.8	<1	0.0	0	3,839.1	<1	0.0	0	728.4	<1	6.0	<1	1,043.8	<1
Status 3	0.0	0	10,930.7	<1	3,200.1	<1	8,493.3	<1	1.3	<1	145.5	<1	381.3	<1
Status 4	0.0	0	0.0	0	0.0	0	48.2	<1	0.2	<1	0.0	0	167.5	<1
Total	1,736.4	<1	11,224.2	<1	8,391.9	<1	8,541.5	<1	1,218.5	<1	151.7	<1	1,615.2	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	424.7	<1	0.0	0	121.1	<1	<0.1	<1	0.0	0	2,705.0	<1
Status 2	53.4	<1	4.5	<1	148.5	<1	155.0	<1	0.0	0	0.8	<1	7,714.4	<1
Status 3	390.1	<1	0.0	0	155.9	<1	147.8	<1	240.4	<1	0.0	0	24,086.3	2
Status 4	0.0	0	0.0	0	15.5	<1	34.6	<1	250.9	<1	1,330,296.8	97	1,330,813.6	97
Total	443.5	<1	429.2	<1	319.9	<1	458.4	<1	491.4	<1	1,330,297.6	97	1,365,319.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN OYSTERCATCHER
Scientific Name: HAEMATOPUS PALLIATUS

ITIS TSN: 176472
NS EICode: ABNNC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	436.5	< 1	0.0	0	0.0	0	0.0	0	1,206.0	1	0.0	0	444.5	< 1
Status 2	10,974.2	13	0.0	0	4,588.1	5	0.0	0	533.6	< 1	0.0	0	2,763.4	3
Status 3	0.0	0	181.9	< 1	4,742.9	5	6,445.4	7	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.3	< 1	0.0	0	0.0	0	0.0	0
Total	11,410.7	13	181.9	< 1	9,331.0	11	6,986.6	8	1,739.6	2	0.0	0	3,207.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,464.0	2	0.0	0	888.9	1	0.0	0	0.0	0	4,440.0	5
Status 2	0.0	0	146.3	< 1	1.7	< 1	455.3	< 1	0.0	0	0.0	0	19,462.6	23
Status 3	0.0	0	0.0	0	0.0	0	641.0	< 1	34.7	< 1	0.0	0	12,045.8	14
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	49,890.7	58	50,432.8	58
Total	0.0	0	1,610.3	2	2.5	< 1	1,985.2	2	34.7	< 1	49,890.7	58	86,381.1	100

Common Name: BLACK-NECKED STILT
Scientific Name: HIMANTOPUS MEXICANUS

ITIS TSN: 176726
NS EICode: ABNND01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,431.8	2	9.8	< 1	0.0	0	0.0	0	1,003.3	1	0.0	0	336.7	< 1
Status 2	9,270.1	12	0.0	0	3,165.1	4	0.0	0	334.1	< 1	0.0	0	2,305.8	3
Status 3	0.0	0	284.8	< 1	2,248.7	3	4,454.8	6	0.0	0	4.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	219.4	< 1	0.0	0	0.0	0	0.0	0
Total	10,701.9	14	294.6	< 1	5,413.9	7	4,674.2	6	1,337.4	2	4.0	< 1	2,642.5	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,274.7	2	0.0	0	703.4	< 1	0.0	0	0.0	0	4,759.7	6
Status 2	0.0	0	146.4	< 1	1.8	< 1	247.2	< 1	0.0	0	0.0	0	15,470.6	20
Status 3	0.0	0	0.0	0	0.0	0	251.1	< 1	21.9	< 1	0.0	0	7,265.3	9
Status 4	0.0	0	0.0	0	6.0	< 1	0.0	0	0.0	0	49,676.0	64	49,901.4	64
Total	0.0	0	1,421.1	2	7.8	< 1	1,201.8	2	21.9	< 1	49,676.0	64	77,396.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WILLET

Scientific Name: CATOPTROPHORUS SEMIPALMATUS

ITIS TSN: 176638

NS EICode: ABNNF02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,849.1	2	0.2	< 1	0.0	0	0.0	0	1,224.8	1	0.0	0	445.4	< 1
Status 2	17,922.7	16	0.0	0	4,853.4	4	0.0	0	539.6	< 1	0.0	0	3,961.5	3
Status 3	0.0	0	238.1	< 1	4,998.1	4	8,959.6	8	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	565.0	< 1	0.0	0	0.0	0	0.0	0
Total	19,771.8	17	238.3	< 1	9,851.5	9	9,524.6	8	1,764.5	2	0.0	0	4,406.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,498.1	1	0.0	0	956.4	< 1	0.0	0	0.0	0	5,974.1	5
Status 2	0.0	0	146.4	< 1	1.8	< 1	466.1	< 1	0.0	0	0.0	0	27,891.6	24
Status 3	0.0	0	0.0	0	0.0	0	643.8	< 1	35.2	< 1	0.0	0	14,874.8	13
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	64,930.7	57	65,496.5	57
Total	0.0	0	1,644.6	1	2.6	< 1	2,066.3	2	35.2	< 1	64,930.7	57	114,237.0	100

Common Name: AMERICAN WOODCOCK

Scientific Name: SCOLOPAX MINOR

ITIS TSN: 176580

NS EICode: ABNNF19020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	22.1	< 1	24,293.3	< 1	89,854.3	1	0.0	0	15,581.7	< 1	466.7	< 1	4,741.7	< 1
Status 2	57,787.4	< 1	0.0	0	16,026.3	< 1	0.0	0	15,695.1	< 1	1,278.0	< 1	35,547.8	< 1
Status 3	0.0	0	372,567.8	4	520.6	< 1	28,926.6	< 1	45.3	< 1	6,899.0	< 1	6,860.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	880.9	< 1	38.9	< 1	0.0	0	601.4	< 1
Total	57,809.4	< 1	396,861.1	5	106,401.2	1	29,807.6	< 1	31,361.0	< 1	8,643.8	< 1	47,751.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,355.1	< 1	6.4	< 1	3,218.4	< 1	136.0	< 1	0.0	0	143,675.6	2
Status 2	679.0	< 1	9.4	< 1	8,044.2	< 1	4,554.5	< 1	0.0	0	228.8	< 1	139,850.4	2
Status 3	6,120.5	< 1	0.0	0	1,108.3	< 1	5,243.2	< 1	2,513.9	< 1	0.0	0	430,805.5	5
Status 4	0.0	0	0.0	0	62.4	< 1	676.3	< 1	1,414.5	< 1	7,654,684.7	91	7,658,359.0	91
Total	6,799.5	< 1	5,364.5	< 1	9,221.2	< 1	13,692.3	< 1	4,064.4	< 1	7,654,913.5	91	8,372,690.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LAUGHING GULL
Scientific Name: *LARUS ATRICILLA*

ITIS TSN: 176837
NS EICode: ABNNM03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,870.7	< 1	24.8	< 1	0.0	0	0.0	0	1,306.3	< 1	6.9	< 1	460.9	< 1
Status 2	23,559.2	4	0.0	0	5,657.4	< 1	0.0	0	705.4	< 1	0.0	0	4,474.0	< 1
Status 3	0.0	0	1,126.5	< 1	6,279.0	1	13,685.9	2	0.0	0	1,048.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	576.6	< 1	0.0	0	0.0	0	0.0	0
Total	25,430.0	4	1,151.4	< 1	11,936.4	2	14,262.5	2	2,011.7	< 1	1,055.3	< 1	4,934.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,777.9	< 1	0.0	0	994.5	< 1	0.0	0	0.0	0	6,442.0	1
Status 2	0.0	0	150.8	< 1	28.7	< 1	856.2	< 1	0.0	0	18.4	< 1	35,450.1	6
Status 3	0.0	0	0.0	0	0.0	0	918.5	< 1	35.3	< 1	0.0	0	23,093.6	4
Status 4	0.0	0	0.0	0	52.1	< 1	0.0	0	283.1	< 1	548,331.3	89	549,243.2	89
Total	0.0	0	1,928.7	< 1	80.8	< 1	2,769.2	< 1	318.4	< 1	548,349.7	89	614,228.9	100

Common Name: HERRING GULL
Scientific Name: *LARUS ARGENTATUS*

ITIS TSN: 176824
NS EICode: ABNNM03120

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,870.7	< 1	14.4	< 1	0.0	0	0.0	0	1,306.3	< 1	6.9	< 1	458.2	< 1
Status 2	20,351.3	5	0.0	0	5,657.4	1	0.0	0	684.8	< 1	0.0	0	4,416.2	1
Status 3	0.0	0	711.4	< 1	6,272.9	2	12,621.6	3	0.0	0	420.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	576.6	< 1	0.0	0	0.0	0	0.0	0
Total	22,222.1	6	725.8	< 1	11,930.3	3	13,198.2	3	1,991.1	< 1	427.3	< 1	4,874.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,777.9	< 1	0.0	0	983.4	< 1	0.0	0	0.0	0	6,417.8	2
Status 2	0.0	0	150.8	< 1	4.6	< 1	846.4	< 1	0.0	0	18.4	< 1	32,129.9	8
Status 3	0.0	0	0.0	0	0.0	0	846.7	< 1	35.3	< 1	0.0	0	20,908.3	5
Status 4	0.0	0	0.0	0	2.7	< 1	0.0	0	0.0	0	339,970.9	85	340,550.2	85
Total	0.0	0	1,928.7	< 1	7.3	< 1	2,676.5	< 1	35.3	< 1	339,989.2	85	400,006.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREAT BLACK-BACKED GULL
Scientific Name: LARUS MARINUS

ITIS TSN: 176815
NS EICode: ABNNM03210

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,694.5	1	0.0	0	0.0	0	0.0	0	53.1	< 1	6.8	< 1	397.8	< 1
Status 2	12,461.8	8	0.0	0	5,383.0	4	0.0	0	6.1	< 1	0.0	0	3,293.0	2
Status 3	0.0	0	0.0	0	4,821.5	3	3,603.3	2	0.0	0	19.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	14,156.3	9	0.0	0	10,204.5	7	3,603.3	2	59.2	< 1	26.2	< 1	3,690.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	473.5	< 1	0.0	0	416.9	< 1	0.0	0	0.0	0	3,042.6	2
Status 2	0.0	0	150.6	< 1	3.9	< 1	474.1	< 1	0.0	0	18.4	< 1	21,790.8	14
Status 3	0.0	0	0.0	0	0.0	0	177.4	< 1	35.2	< 1	0.0	0	8,656.7	6
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	118,625.1	78	118,625.1	78
Total	0.0	0	624.1	< 1	3.9	< 1	1,068.4	< 1	35.2	< 1	118,643.5	78	152,115.3	100

Common Name: GULL-BILLED TERN
Scientific Name: STERNA NILOTICA

ITIS TSN: 176926
NS EICode: ABNNM08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,845.4	2	0.0	0	0.0	0	0.0	0	1,167.5	1	0.0	0	449.1	< 1
Status 2	11,970.3	13	0.0	0	4,858.8	5	0.0	0	533.2	< 1	0.0	0	3,202.2	3
Status 3	0.0	0	146.4	< 1	4,695.9	5	5,851.2	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	480.2	< 1	0.0	0	0.0	0	0.0	0
Total	13,815.6	15	146.4	< 1	9,554.8	10	6,331.3	7	1,700.6	2	0.0	0	3,651.3	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,452.0	2	0.0	0	861.4	< 1	0.0	0	0.0	0	5,775.3	6
Status 2	0.0	0	146.4	< 1	1.7	< 1	391.4	< 1	0.0	0	0.0	0	21,104.0	23
Status 3	0.0	0	0.0	0	0.0	0	410.3	< 1	35.2	< 1	0.0	0	11,139.0	12
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	55,161.5	59	55,642.5	59
Total	0.0	0	1,598.4	2	2.5	< 1	1,663.1	2	35.2	< 1	55,161.5	59	93,660.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CASPIAN TERN
Scientific Name: STERNA CASPIA

ITIS TSN: 176924
NS EICode: ABNNM08020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	104.7	1	0.0	0	19.8	< 1
Status 2	701.3	8	0.0	0	762.8	9	0.0	0	4.0	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	2,834.6	33	0.2	< 1	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	701.3	8	0.0	0	3,597.4	42	0.2	< 1	108.6	1	0.0	0	19.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	34.3	< 1	0.0	0	46.0	< 1	0.0	0	0.0	0	204.8	2
Status 2	0.0	0	0.0	0	0.0	0	0.5	< 1	0.0	0	0.0	0	1,468.5	17
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	2,835.7	33
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4,103.1	48	4,103.1	48
Total	0.0	0	34.3	< 1	0.0	0	46.5	< 1	0.9	< 1	4,103.1	48	8,612.1	100

Common Name: ROYAL TERN
Scientific Name: STERNA MAXIMA

ITIS TSN: 176922
NS EICode: ABNNM08030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.6	< 1	0.0	0	0.0	0	0.0	0	243.8	1	0.0	0	18.9	< 1
Status 2	881.6	5	0.0	0	2,214.2	13	0.0	0	392.0	2	0.0	0	15.8	< 1
Status 3	0.0	0	4.6	< 1	2,935.2	17	590.7	3	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	24.0	< 1	0.0	0	0.0	0	0.0	0
Total	915.2	5	4.6	< 1	5,149.4	29	614.7	3	635.9	4	0.0	0	34.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	432.8	2	0.0	0	70.4	< 1	0.0	0	0.0	0	799.5	5
Status 2	0.0	0	5.9	< 1	0.0	0	0.9	< 1	0.0	0	0.0	0	3,510.5	20
Status 3	0.0	0	0.0	0	0.0	0	27.4	< 1	0.4	< 1	0.0	0	3,558.2	20
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9,794.3	55	9,818.3	56
Total	0.0	0	438.7	2	0.0	0	98.6	< 1	0.4	< 1	9,794.3	55	17,686.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SANDWICH TERN

Scientific Name: STERNA SANDVICENSIS

ITIS TSN: 176927

NS EICode: ABNNM08050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,845.4	2	0.0	0	0.0	0	0.0	0	1,167.5	1	0.0	0	448.2	< 1
Status 2	11,860.2	12	0.0	0	4,858.0	5	0.0	0	533.2	< 1	0.0	0	3,222.8	3
Status 3	0.0	0	139.1	< 1	4,690.5	5	5,828.0	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	480.2	< 1	0.0	0	0.0	0	0.0	0
Total	13,705.6	14	139.1	< 1	9,548.6	10	6,308.1	7	1,700.6	2	0.0	0	3,671.0	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,447.6	1	0.0	0	878.5	< 1	0.0	0	0.0	0	5,787.1	6
Status 2	0.0	0	146.3	< 1	1.7	< 1	391.0	< 1	0.0	0	0.0	0	21,013.1	22
Status 3	0.0	0	0.0	0	0.0	0	410.3	< 1	34.7	< 1	0.0	0	11,102.6	11
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	58,384.5	60	58,865.5	61
Total	0.0	0	1,593.8	2	2.5	< 1	1,679.8	2	34.7	< 1	58,384.5	60	96,768.3	100

Common Name: COMMON TERN

Scientific Name: STERNA HIRUNDO

ITIS TSN: 176888

NS EICode: ABNNM08070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,845.4	2	0.0	0	0.0	0	0.0	0	1,167.5	1	0.0	0	448.2	< 1
Status 2	11,860.4	12	0.0	0	4,858.0	5	0.0	0	533.2	< 1	0.0	0	3,222.8	3
Status 3	0.0	0	139.1	< 1	4,690.5	5	5,828.0	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	480.2	< 1	0.0	0	0.0	0	0.0	0
Total	13,705.7	14	139.1	< 1	9,548.6	10	6,308.1	7	1,700.6	2	0.0	0	3,671.0	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,447.6	1	0.0	0	878.9	< 1	0.0	0	0.0	0	5,787.5	6
Status 2	0.0	0	146.3	< 1	1.7	< 1	391.2	< 1	0.0	0	0.2	< 1	21,013.7	22
Status 3	0.0	0	0.0	0	0.0	0	410.3	< 1	34.7	< 1	0.0	0	11,102.6	11
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	58,627.5	60	59,108.5	61
Total	0.0	0	1,593.8	2	2.5	< 1	1,680.4	2	34.7	< 1	58,627.7	60	97,012.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: FORSTER'S TERN
Scientific Name: STERNA FORSTERI

ITIS TSN: 176887
NS EICode: ABNNM08090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,850.2	2	9.9	< 1	0.0	0	0.0	0	1,206.7	1	0.0	0	451.7	< 1
Status 2	15,891.3	14	0.0	0	4,864.4	4	0.0	0	589.7	< 1	0.0	0	3,738.0	3
Status 3	0.0	0	377.6	< 1	4,971.6	4	7,834.1	7	0.0	0	14.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	541.3	< 1	0.0	0	0.0	0	0.0	0
Total	17,741.5	15	387.5	< 1	9,836.0	8	8,375.3	7	1,796.4	2	14.2	< 1	4,189.7	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,498.1	1	0.0	0	921.8	< 1	0.0	0	0.0	0	5,938.5	5
Status 2	0.0	0	146.4	< 1	1.8	< 1	478.9	< 1	0.0	0	1.2	< 1	25,711.7	22
Status 3	0.0	0	0.0	0	0.0	0	658.5	< 1	35.2	< 1	0.0	0	13,891.1	12
Status 4	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	70,442.5	60	70,984.6	61
Total	0.0	0	1,644.6	1	2.7	< 1	2,059.2	2	35.2	< 1	70,443.6	60	116,525.9	100

Common Name: LEAST TERN
Scientific Name: STERNA ANTILLARUM

ITIS TSN: 176923
NS EICode: ABNNM08100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,845.4	2	0.0	0	0.0	0	0.0	0	1,177.6	1	0.0	0	448.3	< 1
Status 2	11,885.1	10	0.0	0	4,870.3	4	0.0	0	648.3	< 1	0.0	0	3,267.5	3
Status 3	0.0	0	152.0	< 1	4,795.3	4	7,437.7	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	481.0	< 1	0.0	0	0.0	0	0.0	0
Total	13,730.5	12	152.0	< 1	9,665.6	8	7,918.7	7	1,825.8	2	0.0	0	3,715.7	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,457.6	1	0.0	0	881.5	< 1	0.0	0	0.0	0	5,810.3	5
Status 2	0.0	0	146.4	< 1	4.9	< 1	395.4	< 1	0.0	0	0.0	0	21,217.8	18
Status 3	0.0	0	0.0	0	0.0	0	417.5	< 1	34.7	< 1	0.0	0	12,837.2	11
Status 4	0.0	0	0.0	0	2.7	< 1	0.0	0	0.0	0	76,588.0	65	77,071.7	66
Total	0.0	0	1,604.1	1	7.6	< 1	1,694.3	1	34.7	< 1	76,588.0	65	116,937.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOOTY TERN
Scientific Name: STERNA FUSCATA

ITIS TSN: 176894
NS EICode: ABNNM08150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	113.6	2	0.0	0	0.0	0
Status 2	376.8	5	0.0	0	1,645.8	24	0.0	0	71.4	1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	2,288.7	33	9.6	< 1	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	376.8	5	0.0	0	3,934.5	56	9.6	< 1	185.0	3	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	33.8	< 1	0.0	0	0.0	0	0.0	0	0.0	0	147.3	2
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,094.0	30
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,298.3	33
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	2,435.1	35	2,435.1	35
Total	0.0	0	33.8	< 1	0.0	0	0.0	0	0.0	0	2,435.1	35	6,974.8	100

Common Name: BLACK SKIMMER
Scientific Name: RYNCHOPS NIGER

ITIS TSN: 554447
NS EICode: ABNNM14010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,845.4	2	0.0	0	0.0	0	0.0	0	1,177.6	1	2.6	< 1	448.3	< 1
Status 2	11,908.8	11	0.0	0	4,870.3	4	0.0	0	587.4	< 1	0.0	0	3,234.1	3
Status 3	0.0	0	152.0	< 1	4,795.3	4	7,439.6	7	0.0	0	1.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	481.0	< 1	0.0	0	0.0	0	0.0	0
Total	13,754.2	12	152.0	< 1	9,665.6	9	7,920.5	7	1,765.0	2	3.6	< 1	3,682.4	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,457.6	1	0.0	0	881.9	< 1	0.0	0	0.0	0	5,813.4	5
Status 2	0.0	0	146.4	< 1	4.9	< 1	395.3	< 1	0.0	0	0.0	0	21,147.1	19
Status 3	0.0	0	0.0	0	0.0	0	415.1	< 1	34.7	< 1	0.0	0	12,837.7	11
Status 4	0.0	0	0.0	0	2.7	< 1	0.0	0	0.0	0	72,359.9	64	72,843.6	65
Total	0.0	0	1,604.1	1	7.6	< 1	1,692.3	2	34.7	< 1	72,359.9	64	112,641.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ROCK DOVE
Scientific Name: COLUMBA LIVIA

ITIS TSN: 177071
NS EICode: ABNPB01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.5	< 1	167.1	< 1	858.8	< 1	0.0	0	878.4	< 1	0.2	< 1	104.6	< 1
Status 2	7,311.4	< 1	0.0	0	3,071.4	< 1	0.0	0	1,320.5	< 1	135.1	< 1	2,783.0	< 1
Status 3	0.0	0	9,784.6	< 1	3,245.3	< 1	16,054.3	< 1	16.8	< 1	1,079.1	< 1	1,539.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	102.0	< 1	3.4	< 1	0.0	0	517.1	< 1
Total	7,331.9	< 1	9,951.8	< 1	7,175.5	< 1	16,156.3	< 1	2,219.1	< 1	1,214.4	< 1	4,944.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	440.8	< 1	0.0	0	276.5	< 1	22.2	< 1	0.0	0	2,769.1	< 1
Status 2	55.2	< 1	9.1	< 1	271.4	< 1	695.0	< 1	0.0	0	17.2	< 1	15,669.3	< 1
Status 3	920.7	< 1	0.0	0	331.0	< 1	564.7	< 1	1,816.7	< 1	0.0	0	35,352.5	< 1
Status 4	0.0	0	0.0	0	46.1	< 1	92.4	< 1	624.0	< 1	3,913,364.9	99	3,914,749.8	99
Total	975.9	< 1	449.9	< 1	648.5	< 1	1,628.6	< 1	2,462.9	< 1	3,913,382.1	99	3,968,540.7	100

Common Name: MOURNING DOVE
Scientific Name: ZENAIDA MACROURA

ITIS TSN: 177125
NS EICode: ABNPB04040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,581.7	< 1	1,650.5	< 1	0.0	0	2,838.9	< 1	212.0	< 1	433.4	< 1
Status 2	57,783.2	1	0.0	0	3,288.7	< 1	0.0	0	3,715.4	< 1	211.0	< 1	42,659.5	< 1
Status 3	0.0	0	58,754.3	1	2,001.7	< 1	109,866.4	3	21.6	< 1	22,489.7	< 1	22,928.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,549.5	< 1	5.4	< 1	0.0	0	956.0	< 1
Total	57,789.9	1	71,336.1	2	6,940.9	< 1	111,416.0	3	6,581.3	< 1	22,912.7	< 1	66,976.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,604.2	< 1	7.1	< 1	6,087.0	< 1	178.8	< 1	0.0	0	26,600.4	< 1
Status 2	79.7	< 1	42.8	< 1	718.1	< 1	1,870.6	< 1	0.0	0	50.7	< 1	110,419.5	3
Status 3	9,951.9	< 1	0.0	0	792.1	< 1	1,859.7	< 1	1,109.3	< 1	0.0	0	229,774.9	5
Status 4	0.0	0	0.0	0	141.4	< 1	117.1	< 1	275.9	< 1	3,993,225.5	92	3,996,270.7	92
Total	10,031.6	< 1	2,647.1	< 1	1,658.7	< 1	9,934.3	< 1	1,564.0	< 1	3,993,276.2	92	4,363,065.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK-BILLED CUCKOO

ITIS TSN: 177834

Scientific Name: COCCYZUS ERYTHROPHALMUS

NS EICode: ABNRB02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	536.6	< 1	2,478.6	< 1	0.0	0	553.6	< 1	0.0	0	35.3	< 1
Status 2	37,828.4	7	0.0	0	2,499.8	< 1	0.0	0	393.4	< 1	0.4	< 1	2,381.9	< 1
Status 3	0.0	0	20,837.9	4	28.5	< 1	10,108.4	2	0.0	0	2.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	112.3	< 1	0.0	0	0.0	0	0.0	0
Total	37,828.4	7	21,374.5	4	5,006.9	< 1	10,220.8	2	947.0	< 1	2.8	< 1	2,417.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,925.0	< 1	0.0	0	116.0	< 1	0.4	< 1	0.0	0	5,645.4	1
Status 2	79.1	< 1	0.0	0	190.4	< 1	172.2	< 1	0.0	0	0.0	0	43,545.5	8
Status 3	313.5	< 1	0.0	0	0.0	0	112.3	< 1	0.0	0	0.0	0	31,403.1	6
Status 4	0.0	0	0.0	0	0.0	0	34.5	< 1	47.7	< 1	478,061.6	86	478,256.0	86
Total	392.6	< 1	1,925.0	< 1	190.4	< 1	435.0	< 1	48.1	< 1	478,061.6	86	558,850.0	100

Common Name: YELLOW-BILLED CUCKOO

ITIS TSN: 177831

Scientific Name: COCCYZUS AMERICANUS

NS EICode: ABNRB02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.7	< 1	12,393.8	< 1	1,146.8	< 1	0.0	0	2,216.3	< 1	211.2	< 1	428.1	< 1
Status 2	54,754.2	2	0.0	0	1,508.4	< 1	0.0	0	3,061.7	< 1	183.2	< 1	40,732.8	1
Status 3	0.0	0	50,940.1	1	642.2	< 1	51,572.3	1	21.5	< 1	22,109.2	< 1	5,741.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,487.2	< 1	4.6	< 1	0.0	0	383.9	< 1
Total	54,760.9	2	63,333.9	2	3,297.4	< 1	53,059.5	1	5,304.1	< 1	22,503.7	< 1	47,286.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,172.2	< 1	6.3	< 1	5,735.5	< 1	127.5	< 1	0.0	0	24,444.4	< 1
Status 2	78.2	< 1	26.2	< 1	570.0	< 1	1,670.8	< 1	0.0	0	49.1	< 1	102,634.6	3
Status 3	6,976.0	< 1	0.0	0	555.2	< 1	1,332.6	< 1	1,081.3	< 1	0.0	0	140,972.0	4
Status 4	0.0	0	0.0	0	85.0	< 1	96.4	< 1	264.5	< 1	3,329,286.8	92	3,331,608.4	93
Total	7,054.1	< 1	2,198.3	< 1	1,216.4	< 1	8,835.3	< 1	1,473.3	< 1	3,329,336.0	92	3,599,659.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BARN OWL
Scientific Name: *TYTO ALBA*

ITIS TSN: 177851
NS EICode: ABNSA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.3	< 1	2,485.1	< 1	5,725.7	< 1	0.0	0	7,629.1	< 1	11.3	< 1	736.0	< 1
Status 2	37,053.9	< 1	0.0	0	7,859.1	< 1	0.0	0	10,534.3	< 1	377.9	< 1	25,009.0	< 1
Status 3	0.0	0	46,553.8	< 1	5,483.9	< 1	93,027.2	1	20.1	< 1	13,804.1	< 1	24,475.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,184.0	< 1	11.9	< 1	0.0	0	1,352.9	< 1
Total	38,891.2	< 1	49,038.8	< 1	19,068.7	< 1	95,211.3	1	18,195.4	< 1	14,193.3	< 1	51,573.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,926.5	< 1	5.4	< 1	2,337.8	< 1	173.3	< 1	0.0	0	22,867.5	< 1
Status 2	86.6	< 1	152.0	< 1	1,239.5	< 1	2,637.2	< 1	0.0	0	34.9	< 1	84,984.4	1
Status 3	7,871.2	< 1	0.0	0	1,318.9	< 1	2,742.0	< 1	3,723.6	< 1	0.0	0	199,020.4	3
Status 4	0.0	0	0.0	0	90.8	< 1	199.3	< 1	843.8	< 1	6,622,027.1	96	6,626,709.8	96
Total	7,957.8	< 1	2,078.5	< 1	2,654.6	< 1	7,916.3	< 1	4,740.8	< 1	6,622,062.0	96	6,933,582.1	100

Common Name: EASTERN SCREECH-OWL
Scientific Name: *OTUS ASIO*

ITIS TSN: 177856
NS EICode: ABNSB01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.4	< 1	718.3	< 1	1,616.0	< 1	0.0	0	1,572.8	< 1	32.1	< 1	267.2	< 1
Status 2	8,891.6	< 1	0.0	0	3,151.1	< 1	0.0	0	2,592.9	< 1	190.6	< 1	6,486.0	< 1
Status 3	0.0	0	28,030.5	< 1	1,753.1	< 1	68,973.7	2	18.2	< 1	4,899.2	< 1	20,312.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	489.4	< 1	5.2	< 1	0.0	0	828.1	< 1
Total	8,897.0	< 1	28,748.8	< 1	6,520.1	< 1	69,463.1	2	4,189.1	< 1	5,121.9	< 1	27,894.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	844.1	< 1	4.3	< 1	837.9	< 1	144.2	< 1	0.0	0	6,042.2	< 1
Status 2	76.6	< 1	6.6	< 1	615.3	< 1	769.2	< 1	0.0	0	20.9	< 1	22,800.9	< 1
Status 3	5,212.9	< 1	0.0	0	681.2	< 1	1,211.0	< 1	1,082.3	< 1	0.0	0	132,174.8	4
Status 4	0.0	0	0.0	0	66.8	< 1	87.0	< 1	244.4	< 1	3,351,124.7	95	3,352,845.6	95
Total	5,289.5	< 1	850.7	< 1	1,367.6	< 1	2,905.1	< 1	1,470.9	< 1	3,351,145.6	95	3,513,863.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREAT HORNED OWL
Scientific Name: BUBO VIRGINIANUS

ITIS TSN: 177884
NS EICode: ABNSB05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	537.6	< 1	704.4	< 1	0.0	0	1,341.4	< 1	1.4	< 1	247.2	< 1
Status 2	7,667.8	< 1	0.0	0	1,972.4	< 1	0.0	0	2,215.4	< 1	178.0	< 1	5,753.5	< 1
Status 3	0.0	0	17,771.6	< 1	1,634.4	< 1	67,634.6	2	15.7	< 1	4,897.3	< 1	19,937.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,390.4	< 1	3.8	< 1	0.0	0	803.0	< 1
Total	7,673.0	< 1	18,309.2	< 1	4,311.2	< 1	69,025.0	2	3,576.2	< 1	5,076.6	< 1	26,741.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	666.1	< 1	5.0	< 1	748.5	< 1	143.9	< 1	0.0	0	4,400.6	< 1
Status 2	55.7	< 1	6.8	< 1	464.0	< 1	660.8	< 1	0.0	0	19.7	< 1	18,994.0	< 1
Status 3	5,102.4	< 1	0.0	0	609.2	< 1	1,091.7	< 1	1,054.1	< 1	0.0	0	119,748.3	4
Status 4	0.0	0	0.0	0	66.6	< 1	65.2	< 1	207.3	< 1	2,926,053.4	95	2,928,589.6	95
Total	5,158.0	< 1	672.8	< 1	1,144.8	< 1	2,566.2	< 1	1,405.3	< 1	2,926,073.1	95	3,071,732.4	100

Common Name: BARRED OWL
Scientific Name: STRIX VARIA

ITIS TSN: 177921
NS EICode: ABNSB12020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	24.9	< 1	30,081.5	< 1	111,172.3	< 1	0.0	0	23,389.9	< 1	704.0	< 1	8,601.7	< 1
Status 2	70,667.5	< 1	0.0	0	19,809.5	< 1	0.0	0	26,302.3	< 1	1,557.2	< 1	59,233.4	< 1
Status 3	0.0	0	432,195.2	4	238.4	< 1	111,417.5	< 1	51.3	< 1	19,640.3	< 1	30,486.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,137.1	< 1	46.9	< 1	0.0	0	1,481.9	< 1
Total	70,692.4	< 1	462,276.7	4	131,220.2	1	113,554.6	< 1	49,790.4	< 1	21,901.5	< 1	99,803.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,556.2	< 1	11.8	< 1	5,714.7	< 1	224.4	< 1	0.0	0	185,481.5	2
Status 2	718.7	< 1	21.2	< 1	9,710.3	< 1	6,698.4	< 1	0.0	0	315.2	< 1	195,033.5	2
Status 3	13,432.2	< 1	0.0	0	2,135.7	< 1	15,691.7	< 1	4,354.9	< 1	0.0	0	629,643.7	6
Status 4	0.0	0	0.0	0	111.6	< 1	820.4	< 1	1,614.4	< 1	10,422,405.9	91	10,428,618.2	91
Total	14,150.9	< 1	5,577.4	< 1	11,969.4	< 1	28,925.3	< 1	6,193.7	< 1	10,422,721.1	91	11,438,776.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN SAW-WHET OWL
Scientific Name: AEGOLIUS ACADICUS

ITIS TSN: 177942
NS EICode: ABNSB15020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	658.6	5	7,743.7	56	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	700.9	5	0.0	0	438.1	3	0.0	0	1.2	< 1
Status 3	0.0	0	2,251.0	16	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,909.6	21	8,444.6	61	0.0	0	438.1	3	0.0	0	1.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	180.1	1	0.0	0	0.0	0	8,582.4	62
Status 2	0.0	0	0.0	0	302.7	2	0.0	0	0.0	0	0.0	0	1,442.9	10
Status 3	0.0	0	0.0	0	0.0	0	519.2	4	0.0	0	0.0	0	2,770.2	20
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1,024.6	7	1,024.6	7
Total	0.0	0	0.0	0	302.7	2	699.3	5	0.0	0	1,024.6	7	13,820.0	100

Common Name: COMMON NIGHTHAWK
Scientific Name: CHORDEILES MINOR

ITIS TSN: 177979
NS EICode: ABNTA02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,870.9	< 1	211.6	< 1	0.0	0	0.0	0	2,579.3	< 1	4.3	< 1	728.7	< 1
Status 2	23,435.7	< 1	0.0	0	6,762.2	< 1	0.0	0	2,243.3	< 1	211.0	< 1	8,227.1	< 1
Status 3	0.0	0	5,982.3	< 1	6,198.5	< 1	28,033.9	< 1	17.2	< 1	3,751.7	< 1	2,303.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,993.0	< 1	4.6	< 1	0.0	0	578.9	< 1
Total	25,306.7	< 1	6,193.9	< 1	12,960.7	< 1	30,026.9	< 1	4,844.4	< 1	3,966.9	< 1	11,837.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,795.6	< 1	24.0	< 1	1,341.2	< 1	104.9	< 1	0.0	0	8,660.5	< 1
Status 2	58.2	< 1	269.7	< 1	696.4	< 1	1,253.3	< 1	0.0	0	25.5	< 1	43,182.5	< 1
Status 3	1,912.8	< 1	0.0	0	763.0	< 1	1,503.1	< 1	2,547.6	< 1	0.0	0	53,013.1	1
Status 4	0.0	0	0.0	0	288.4	< 1	112.1	< 1	665.7	< 1	4,572,358.1	98	4,576,000.8	98
Total	1,970.9	< 1	2,065.3	< 1	1,771.8	< 1	4,209.8	< 1	3,318.2	< 1	4,572,383.6	98	4,680,856.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CHUCK-WILL'S-WIDOW

ITIS TSN: 177960

Scientific Name: CAPRIMULGUS CAROLINENSIS

NS EICode: ABNTA07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.6	< 1	12,357.0	< 1	0.0	0	0.0	0	2,872.3	< 1	214.0	< 1	443.4	< 1
Status 2	60,728.0	2	0.0	0	2,143.7	< 1	0.0	0	3,677.3	< 1	208.5	< 1	43,090.4	1
Status 3	0.0	0	40,348.4	1	2,085.2	< 1	104,627.5	3	22.1	< 1	22,541.2	< 1	22,959.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,543.4	< 1	5.4	< 1	0.0	0	915.6	< 1
Total	60,753.5	2	52,705.4	1	4,228.9	< 1	106,170.9	3	6,577.0	< 1	22,963.8	< 1	67,408.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,700.0	< 1	8.6	< 1	6,142.8	< 1	178.9	< 1	0.0	0	24,942.6	< 1
Status 2	78.4	< 1	59.9	< 1	543.6	< 1	1,786.9	< 1	0.0	0	50.8	< 1	112,367.5	3
Status 3	9,930.1	< 1	0.0	0	737.5	< 1	1,916.7	< 1	1,123.6	< 1	0.0	0	206,291.3	5
Status 4	0.0	0	0.0	0	149.7	< 1	109.3	< 1	271.5	< 1	3,503,842.8	91	3,506,837.7	91
Total	10,008.5	< 1	2,759.9	< 1	1,439.4	< 1	9,955.6	< 1	1,574.0	< 1	3,503,893.6	91	3,850,439.0	100

Common Name: WHIP-POOR-WILL

ITIS TSN: 177961

Scientific Name: CAPRIMULGUS VOCIFERUS

NS EICode: ABNTA07070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	23.6	< 1	16,725.8	< 1	67,974.4	< 1	0.0	0	14,140.1	< 1	7.9	< 1	2,483.4	< 1
Status 2	25,335.9	< 1	0.0	0	13,795.5	< 1	0.0	0	22,361.3	< 1	779.0	< 1	40,011.8	< 1
Status 3	0.0	0	355,613.2	3	465.6	< 1	89,083.2	< 1	30.3	< 1	14,505.4	< 1	28,044.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,010.0	< 1	38.8	< 1	0.0	0	1,348.3	< 1
Total	25,359.5	< 1	372,339.0	4	82,235.4	< 1	91,093.1	< 1	36,570.5	< 1	15,292.4	< 1	71,888.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	708.8	< 1	11.2	< 1	2,686.1	< 1	173.6	< 1	0.0	0	104,934.8	1
Status 2	671.2	< 1	9.2	< 1	6,086.0	< 1	3,403.9	< 1	0.0	0	35.8	< 1	112,489.6	1
Status 3	10,750.6	< 1	0.0	0	1,989.8	< 1	3,718.5	< 1	4,348.2	< 1	0.0	0	508,549.3	5
Status 4	0.0	0	0.0	0	92.7	< 1	726.3	< 1	1,281.9	< 1	9,436,902.4	93	9,442,400.3	93
Total	11,421.8	< 1	718.0	< 1	8,179.7	< 1	10,534.8	< 1	5,803.7	< 1	9,436,938.2	93	10,168,374.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CHIMNEY SWIFT
Scientific Name: CHAETURA PELAGICA

ITIS TSN: 178001
NS EICode: ABNUA03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.5	< 1	330.8	< 1	1,436.2	< 1	0.0	0	792.9	< 1	0.2	< 1	105.3	< 1
Status 2	7,251.8	< 1	0.0	0	4,546.8	< 1	0.0	0	1,351.9	< 1	135.1	< 1	2,801.2	< 1
Status 3	0.0	0	12,639.2	< 1	3,494.0	< 1	15,911.4	< 1	16.8	< 1	1,081.4	< 1	1,539.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	102.3	< 1	3.4	< 1	0.0	0	517.1	< 1
Total	7,272.4	< 1	12,970.1	< 1	9,477.0	< 1	16,013.7	< 1	2,165.0	< 1	1,216.6	< 1	4,962.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	562.6	< 1	0.0	0	324.8	< 1	22.2	< 1	0.0	0	3,595.6	< 1
Status 2	56.0	< 1	9.1	< 1	292.6	< 1	720.0	< 1	0.0	0	17.2	< 1	17,181.6	< 1
Status 3	920.7	< 1	0.0	0	331.0	< 1	573.8	< 1	1,816.7	< 1	0.0	0	38,324.3	< 1
Status 4	0.0	0	0.0	0	46.9	< 1	95.9	< 1	624.0	< 1	3,939,086.4	98	3,940,475.9	99
Total	976.7	< 1	571.7	< 1	670.5	< 1	1,714.5	< 1	2,462.9	< 1	3,939,103.6	98	3,999,577.5	100

Common Name: RUBY-THROATED HUMMINGBIRD
Scientific Name: ARCHILOCHUS COLUBRIS

ITIS TSN: 178032
NS EICode: ABNUC45010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.7	< 1	14,327.6	< 1	5,061.1	< 1	0.0	0	2,249.9	< 1	211.2	< 1	414.7	< 1
Status 2	54,391.7	1	0.0	0	4,460.1	< 1	0.0	0	3,119.6	< 1	174.5	< 1	40,441.7	1
Status 3	0.0	0	57,379.5	2	1,922.7	< 1	50,360.8	1	19.7	< 1	20,684.6	< 1	4,122.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,513.2	< 1	5.4	< 1	0.0	0	291.5	< 1
Total	54,398.3	1	71,707.1	2	11,443.9	< 1	51,873.9	1	5,394.6	< 1	21,070.4	< 1	45,270.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,486.3	< 1	6.2	< 1	5,885.4	< 1	120.3	< 1	0.0	0	30,769.4	< 1
Status 2	76.2	< 1	24.0	< 1	889.7	< 1	1,601.5	< 1	0.0	0	46.4	< 1	105,225.5	3
Status 3	6,265.7	< 1	0.0	0	567.8	< 1	1,797.7	< 1	1,072.8	< 1	0.0	0	144,193.4	4
Status 4	0.0	0	0.0	0	66.5	< 1	106.7	< 1	257.8	< 1	3,425,810.9	92	3,428,051.9	92
Total	6,341.9	< 1	2,510.3	< 1	1,530.3	< 1	9,391.1	< 1	1,450.9	< 1	3,425,857.3	92	3,708,240.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BELTED KINGFISHER

Scientific Name: CERYLE ALCYON

ITIS TSN: 178119

NS EICode: ABNXD01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	810.3	< 1	2,072.2	< 1	7,147.1	< 1	0.0	0	3,867.6	< 1	59.3	< 1	1,216.2	< 1
Status 2	19,413.5	< 1	0.0	0	3,962.9	< 1	0.0	0	6,138.5	< 1	400.7	< 1	13,502.6	< 1
Status 3	0.0	0	41,967.5	2	1,695.6	< 1	25,596.2	1	21.8	< 1	845.6	< 1	5,880.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,175.0	< 1	16.2	< 1	0.0	0	396.9	< 1
Total	20,223.8	< 1	44,039.6	2	12,805.6	< 1	27,771.2	1	10,044.1	< 1	1,305.6	< 1	20,995.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,796.3	< 1	20.9	< 1	1,168.0	< 1	27.4	< 1	0.0	0	18,185.1	< 1
Status 2	100.5	< 1	166.1	< 1	1,032.2	< 1	1,175.1	< 1	0.0	0	74.5	< 1	45,966.7	2
Status 3	1,264.2	< 1	0.0	0	976.8	< 1	1,804.1	< 1	895.5	< 1	0.0	0	80,947.4	4
Status 4	0.0	0	0.0	0	25.0	< 1	101.1	< 1	262.4	< 1	1,891,267.5	93	1,894,244.1	93
Total	1,364.7	< 1	1,962.5	< 1	2,054.9	< 1	4,248.4	< 1	1,185.3	< 1	1,891,342.0	93	2,039,343.4	100

Common Name: RED-HEADED WOODPECKER

Scientific Name: MELANERPES ERYTHROCEPHALUS

ITIS TSN: 178186

NS EICode: ABNYF04040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,262.0	< 1	790.4	< 1	0.0	0	2,555.0	< 1	212.4	< 1	392.5	< 1
Status 2	58,660.0	1	0.0	0	373.8	< 1	0.0	0	3,409.8	< 1	207.6	< 1	42,340.8	1
Status 3	0.0	0	46,213.1	1	101.4	< 1	106,847.8	3	22.0	< 1	22,534.7	< 1	22,842.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,527.8	< 1	5.4	< 1	0.0	0	944.3	< 1
Total	58,666.8	1	58,475.1	1	1,265.6	< 1	108,375.7	3	5,992.2	< 1	22,954.7	< 1	66,520.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,138.9	< 1	7.1	< 1	5,979.5	< 1	178.9	< 1	0.0	0	24,523.5	< 1
Status 2	2.6	< 1	26.4	< 1	575.6	< 1	1,721.6	< 1	0.0	0	50.8	< 1	107,369.0	3
Status 3	9,719.9	< 1	0.0	0	752.3	< 1	1,828.1	< 1	1,084.3	< 1	0.0	0	211,946.4	5
Status 4	0.0	0	0.0	0	93.4	< 1	106.8	< 1	226.8	< 1	3,703,394.0	91	3,706,298.6	92
Total	9,722.5	< 1	2,165.3	< 1	1,428.5	< 1	9,636.0	< 1	1,490.0	< 1	3,703,444.7	91	4,050,137.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED-BELLIED WOODPECKER
Scientific Name: MELANERPES CAROLINUS

ITIS TSN: 178195
NS EICode: ABNYF04170

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	21,029.9	< 1	28,771.2	< 1	0.0	0	23,652.6	< 1	912.2	< 1	8,516.9	< 1
Status 2	122,329.7	2	0.0	0	3,943.6	< 1	0.0	0	25,470.6	< 1	1,431.9	< 1	89,167.8	1
Status 3	0.0	0	241,740.8	3	231.5	< 1	140,807.4	2	36.5	< 1	33,962.1	< 1	30,696.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,251.9	< 1	44.0	< 1	0.0	0	1,178.3	< 1
Total	122,334.5	2	262,770.7	3	32,946.3	< 1	142,059.3	2	49,203.7	< 1	36,306.3	< 1	129,559.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,860.7	< 1	9.5	< 1	8,619.8	< 1	222.3	< 1	0.0	0	99,599.8	1
Status 2	531.1	< 1	24.4	< 1	2,997.5	< 1	6,143.2	< 1	0.0	0	321.5	< 1	252,361.3	3
Status 3	16,850.8	< 1	0.0	0	1,979.2	< 1	11,890.1	< 1	2,788.2	< 1	0.0	0	480,983.1	6
Status 4	0.0	0	0.0	0	89.8	< 1	513.5	< 1	974.4	< 1	7,157,525.2	90	7,161,577.1	90
Total	17,381.9	< 1	7,885.1	< 1	5,076.0	< 1	27,166.5	< 1	3,984.9	< 1	7,157,846.7	90	7,994,521.3	100

Common Name: YELLOW-BELLIED SAPSUCKER
Scientific Name: SPHYRAPICUS VARIUS

ITIS TSN: 178202
NS EICode: ABNYF05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	13,572.5	4	45,425.6	13	0.0	0	231.5	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	6,740.9	2	0.0	0	15.5	< 1	2.0	< 1	1,733.9	< 1
Status 3	0.0	0	107,415.5	31	0.0	0	0.0	0	0.0	0	59.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	120,988.0	35	52,166.5	15	0.0	0	247.0	< 1	61.3	< 1	1,733.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,300.0	< 1	0.0	0	0.0	0	60,529.5	17
Status 2	2.0	< 1	0.0	0	4,234.6	1	469.3	< 1	0.0	0	0.0	0	13,198.2	4
Status 3	0.0	0	0.0	0	0.0	0	2,221.9	< 1	0.0	0	0.0	0	109,696.8	32
Status 4	0.0	0	0.0	0	0.0	0	81.0	< 1	0.0	0	162,487.2	47	162,568.2	47
Total	2.0	< 1	0.0	0	4,234.6	1	4,072.1	1	0.0	0	162,487.2	47	345,992.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: DOWNY WOODPECKER
Scientific Name: *PICOIDES PUBESCENS*

ITIS TSN: 178259
NS EICode: ABNYF07030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	39,195.9	< 1	98,671.7	1	0.0	0	23,850.5	< 1	909.6	< 1	8,484.6	< 1
Status 2	116,567.4	1	0.0	0	16,437.7	< 1	0.0	0	25,347.8	< 1	1,383.9	< 1	90,113.6	1
Status 3	0.0	0	433,801.9	5	1,687.0	< 1	135,997.9	2	35.6	< 1	31,254.3	< 1	30,526.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	946.2	< 1	43.1	< 1	0.0	0	1,148.9	< 1
Total	116,572.1	1	472,997.8	6	116,796.3	1	136,944.1	2	49,277.0	< 1	33,547.9	< 1	130,273.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,402.0	< 1	9.5	< 1	10,159.7	< 1	139.7	< 1	0.0	0	189,827.8	2
Status 2	655.4	< 1	24.2	< 1	8,871.9	< 1	6,852.2	< 1	0.0	0	313.5	< 1	266,567.6	3
Status 3	15,985.6	< 1	0.0	0	1,947.3	< 1	14,333.8	< 1	2,128.1	< 1	0.0	0	667,697.9	8
Status 4	0.0	0	0.0	0	80.2	< 1	750.8	< 1	975.1	< 1	6,901,346.2	86	6,905,290.4	86
Total	16,641.0	< 1	8,426.2	< 1	10,908.9	< 1	32,096.5	< 1	3,242.9	< 1	6,901,659.6	86	8,029,383.7	100

Common Name: HAIRY WOODPECKER
Scientific Name: *PICOIDES VILLOSUS*

ITIS TSN: 178262
NS EICode: ABNYF07040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	39,883.9	< 1	107,010.1	1	0.0	0	23,830.5	< 1	909.6	< 1	8,431.2	< 1
Status 2	116,460.9	1	0.0	0	17,004.0	< 1	0.0	0	25,736.1	< 1	1,381.8	< 1	89,855.5	1
Status 3	0.0	0	435,873.2	6	218.7	< 1	130,217.3	2	35.6	< 1	31,252.9	< 1	30,507.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	946.1	< 1	43.1	< 1	0.0	0	1,106.4	< 1
Total	116,465.7	1	475,757.0	6	124,232.8	2	131,163.4	2	49,645.4	< 1	33,544.3	< 1	129,900.3	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,827.8	< 1	9.5	< 1	10,289.7	< 1	139.7	< 1	0.0	0	198,336.7	3
Status 2	655.4	< 1	24.2	< 1	9,140.0	< 1	6,740.1	< 1	0.0	0	313.5	< 1	267,311.4	3
Status 3	15,977.9	< 1	0.0	0	1,874.9	< 1	14,864.2	< 1	2,101.6	< 1	0.0	0	662,923.5	8
Status 4	0.0	0	0.0	0	79.6	< 1	746.8	< 1	975.1	< 1	6,682,005.2	86	6,685,902.2	86
Total	16,633.3	< 1	7,852.1	< 1	11,103.9	< 1	32,640.8	< 1	3,216.3	< 1	6,682,318.7	86	7,814,473.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED-COCKADED WOODPECKER
Scientific Name: *PICOIDES BOREALIS*

ITIS TSN: 178257
NS EICode: ABNYF07060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	11,774.7	1	0.0	0	0.0	0	1,544.8	<1	117.9	<1	32.7	<1
Status 2	43,810.0	5	0.0	0	0.0	0	0.0	0	1,081.0	<1	23.8	<1	34,924.7	4
Status 3	0.0	0	31,170.2	3	15.2	<1	84,477.1	9	0.0	0	16,664.9	2	19,093.7	2
Status 4	0.0	0	0.0	0	0.0	0	<0.1	<1	0.0	0	0.0	0	610.7	<1
Total	43,810.0	5	42,944.9	5	15.2	<1	84,477.2	9	2,625.8	<1	16,806.5	2	54,661.8	6
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,454.3	<1	0.0	0	5,374.3	<1	79.1	<1	0.0	0	20,377.7	2
Status 2	0.0	0	13.1	<1	35.4	<1	910.9	<1	0.0	0	16.5	<1	80,815.3	9
Status 3	7,339.4	<1	0.0	0	151.7	<1	776.7	<1	1.1	<1	0.0	0	159,689.8	18
Status 4	0.0	0	0.0	0	18.2	<1	20.6	<1	19.8	<1	637,435.0	71	638,104.4	71
Total	7,339.4	<1	1,467.5	<1	205.2	<1	7,082.5	<1	100.0	<1	637,451.5	71	898,987.2	100

Common Name: NORTHERN FLICKER
Scientific Name: *COLAPTES AURATUS*

ITIS TSN: 178154
NS EICode: ABNYF10020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.6	<1	12,416.9	<1	1,129.3	<1	0.0	0	2,826.2	<1	213.6	<1	447.5	<1
Status 2	59,464.4	1	0.0	0	2,880.4	<1	0.0	0	3,710.7	<1	209.7	<1	43,219.4	1
Status 3	0.0	0	55,452.2	1	2,061.5	<1	106,945.4	3	21.5	<1	22,487.8	<1	22,903.2	<1
Status 4	0.0	0	0.0	0	0.0	0	1,608.0	<1	5.4	<1	0.0	0	941.3	<1
Total	59,490.0	1	67,869.0	2	6,071.1	<1	108,553.4	3	6,563.8	<1	22,911.0	<1	67,511.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,679.7	<1	7.1	<1	6,152.9	<1	178.9	<1	0.0	0	26,077.6	<1
Status 2	72.2	<1	43.1	<1	664.2	<1	1,889.5	<1	0.0	0	50.7	<1	112,204.3	3
Status 3	9,910.7	<1	0.0	0	773.3	<1	1,931.4	<1	1,115.6	<1	0.0	0	223,602.4	5
Status 4	0.0	0	0.0	0	92.3	<1	108.4	<1	274.0	<1	3,864,458.8	91	3,867,488.2	91
Total	9,982.9	<1	2,722.8	<1	1,536.9	<1	10,082.2	<1	1,568.4	<1	3,864,509.5	91	4,229,372.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PILEATED WOODPECKER
Scientific Name: DRYOCOPUS PILEATUS

ITIS TSN: 178166
NS EICode: ABNYF12020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,244.5	< 1	96,326.8	1	0.0	0	23,836.9	< 1	909.6	< 1	8,484.1	< 1
Status 2	116,541.5	1	0.0	0	15,363.5	< 1	0.0	0	25,285.2	< 1	1,381.8	< 1	89,841.2	1
Status 3	0.0	0	429,295.6	6	1,503.8	< 1	130,217.3	2	35.6	< 1	31,252.8	< 1	30,507.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	946.1	< 1	43.1	< 1	0.0	0	1,106.4	< 1
Total	116,546.3	1	466,540.1	6	113,194.2	1	131,163.4	2	49,200.8	< 1	33,544.2	< 1	129,938.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,395.9	< 1	9.5	< 1	10,090.0	< 1	139.7	< 1	0.0	0	185,441.8	2
Status 2	655.4	< 1	24.2	< 1	8,594.1	< 1	6,840.1	< 1	0.0	0	313.5	< 1	264,840.5	3
Status 3	15,977.9	< 1	0.0	0	1,874.9	< 1	13,930.7	< 1	2,128.1	< 1	0.0	0	656,723.9	8
Status 4	0.0	0	0.0	0	77.9	< 1	735.6	< 1	975.1	< 1	6,680,714.0	86	6,684,598.2	86
Total	16,633.3	< 1	8,420.1	< 1	10,556.4	< 1	31,596.3	< 1	3,242.8	< 1	6,681,027.5	86	7,791,604.3	100

Common Name: EASTERN WOOD-PEWEE
Scientific Name: CONTOPUS VIRENS

ITIS TSN: 178359
NS EICode: ABPAE32060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.2	< 1	21,205.2	< 1	85,038.5	1	0.0	0	13,828.8	< 1	5.1	< 1	2,404.5	< 1
Status 2	15,189.5	< 1	0.0	0	14,213.1	< 1	0.0	0	21,729.9	< 1	653.0	< 1	40,816.4	< 1
Status 3	0.0	0	384,180.3	5	1,150.6	< 1	85,175.2	1	14.6	< 1	13,364.2	< 1	27,638.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	973.4	< 1	43.2	< 1	0.0	0	955.4	< 1
Total	15,192.6	< 1	405,385.5	6	100,402.1	1	86,148.6	1	35,616.4	< 1	14,022.3	< 1	71,815.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	892.7	< 1	8.9	< 1	3,122.2	< 1	152.2	< 1	0.0	0	126,661.2	2
Status 2	656.0	< 1	4.6	< 1	7,619.5	< 1	2,937.1	< 1	0.0	0	18.2	< 1	103,837.1	1
Status 3	9,991.0	< 1	0.0	0	1,905.2	< 1	3,956.7	< 1	2,745.7	< 1	0.0	0	530,122.1	7
Status 4	0.0	0	0.0	0	56.5	< 1	664.5	< 1	675.2	< 1	6,308,577.5	89	6,311,945.7	89
Total	10,647.0	< 1	897.3	< 1	9,590.1	< 1	10,680.4	< 1	3,573.1	< 1	6,308,595.6	89	7,072,566.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ACADIAN FLYCATCHER
Scientific Name: *EMPIDONAX VIRESCENS*

ITIS TSN: 178339
NS EICode: ABPAE33020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	< 1	9,910.2	< 1	42,454.9	1	0.0	0	14,288.4	< 1	698.7	< 1	7,630.3	< 1
Status 2	51,503.0	1	0.0	0	7,487.6	< 1	0.0	0	13,180.3	< 1	1,170.7	< 1	32,568.8	< 1
Status 3	0.0	0	215,830.7	5	151.3	< 1	26,737.5	< 1	32.9	< 1	4,792.1	< 1	5,584.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	754.0	< 1	33.2	< 1	0.0	0	192.0	< 1
Total	51,504.4	1	225,740.9	5	50,093.7	1	27,491.5	< 1	27,534.9	< 1	6,661.4	< 1	45,975.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,146.7	< 1	6.4	< 1	2,648.6	< 1	37.4	< 1	0.0	0	82,822.9	2
Status 2	551.2	< 1	6.5	< 1	3,377.4	< 1	4,125.2	< 1	0.0	0	280.9	< 1	114,251.6	3
Status 3	5,152.3	< 1	0.0	0	931.1	< 1	10,545.8	< 1	719.0	< 1	0.0	0	270,477.5	6
Status 4	0.0	0	0.0	0	32.7	< 1	425.6	< 1	713.8	< 1	3,707,258.0	89	3,709,409.3	89
Total	5,703.5	< 1	5,153.1	< 1	4,347.6	< 1	17,745.1	< 1	1,470.2	< 1	3,707,538.9	89	4,176,961.3	100

Common Name: ALDER FLYCATCHER
Scientific Name: *EMPIDONAX ALNORUM*

ITIS TSN: 178340
NS EICode: ABPAE33030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,172.3	7	8,043.5	26	0.0	0	8.5	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,699.5	6	0.0	0	585.3	2	0.5	< 1	68.9	< 1
Status 3	0.0	0	7,563.2	25	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	9,735.5	32	9,743.0	32	0.0	0	593.7	2	0.5	< 1	68.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	327.4	1	0.0	0	0.0	0	10,551.7	35
Status 2	0.0	0	0.0	0	588.1	2	15.9	< 1	0.0	0	0.0	0	2,958.0	10
Status 3	0.0	0	0.0	0	0.0	0	959.1	3	0.0	0	0.0	0	8,522.4	28
Status 4	0.0	0	0.0	0	0.0	0	2.8	< 1	0.0	0	8,407.1	28	8,409.9	28
Total	0.0	0	0.0	0	588.1	2	1,305.3	4	0.0	0	8,407.1	28	30,442.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WILLOW FLYCATCHER

Scientific Name: *EMPIDONAX TRILLII*

ITIS TSN: 178341

NS EICode: ABPAE33040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8.1	< 1	138.8	< 1	0.0	0	26.6	< 1	0.0	0	14.5	< 1
Status 2	7.9	< 1	0.0	0	13.2	< 1	0.0	0	109.7	< 1	6.3	< 1	319.8	< 1
Status 3	0.0	0	994.6	< 1	1.8	< 1	40.0	< 1	0.0	0	15.1	< 1	297.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,188.6	1	0.0	0	0.0	0	0.0	0
Total	7.9	< 1	1,002.7	1	153.8	< 1	1,228.6	1	136.4	< 1	21.4	< 1	631.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.2	< 1	6.7	< 1	0.0	0	0.0	0	194.9	< 1
Status 2	0.0	0	0.0	0	36.2	< 1	14.9	< 1	0.0	0	0.0	0	508.1	< 1
Status 3	11.4	< 1	0.0	0	143.0	< 1	0.5	< 1	4.8	< 1	0.0	0	1,508.6	2
Status 4	0.0	0	0.0	0	0.0	0	1.6	< 1	0.0	0	96,373.5	97	97,563.8	98
Total	11.4	< 1	0.0	0	179.4	< 1	23.7	< 1	4.8	< 1	96,373.5	97	99,775.3	100

Common Name: LEAST FLYCATCHER

Scientific Name: *EMPIDONAX MINIMUS*

ITIS TSN: 178344

NS EICode: ABPAE33070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	212.3	< 1	547.7	< 1	0.0	0	23.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,238.2	1	0.0	0	96.7	< 1	1.2	< 1	93.9	< 1
Status 3	0.0	0	6,622.1	6	3.3	< 1	0.0	0	0.0	0	1.7	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	6,834.4	6	1,789.3	2	0.0	0	119.8	< 1	2.9	< 1	93.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	29.8	< 1	0.0	0	0.0	0	813.0	< 1
Status 2	50.9	< 1	0.0	0	62.4	< 1	84.7	< 1	0.0	0	0.0	0	1,627.9	1
Status 3	134.9	< 1	0.0	0	0.0	0	12.6	< 1	0.0	0	0.0	0	6,774.7	6
Status 4	0.0	0	0.0	0	0.0	0	6.4	< 1	35.2	< 1	105,718.5	92	105,760.1	92
Total	185.8	< 1	0.0	0	62.4	< 1	133.5	< 1	35.2	< 1	105,718.5	92	114,975.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN PHOEBE
Scientific Name: SAYORNIS PHOEBE

ITIS TSN: 178329
NS EICode: ABPAE35020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	804.7	< 1	2,689.4	< 1	0.0	0	845.9	< 1	36.3	< 1	227.3	< 1
Status 2	5,611.2	< 1	0.0	0	1,383.5	< 1	0.0	0	2,179.8	< 1	134.5	< 1	3,330.1	< 1
Status 3	0.0	0	14,078.9	< 1	52.7	< 1	32,557.4	2	20.6	< 1	224.0	< 1	10,898.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,511.6	< 1	5.4	< 1	0.0	0	541.5	< 1
Total	5,611.2	< 1	14,883.6	< 1	4,125.6	< 1	34,069.1	2	3,051.7	< 1	394.7	< 1	14,997.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.1	< 1	7.1	< 1	356.1	< 1	0.0	0	0.0	0	4,975.8	< 1
Status 2	42.9	< 1	0.0	0	506.4	< 1	377.6	< 1	0.0	0	0.0	0	13,566.0	< 1
Status 3	1,165.1	< 1	0.0	0	677.8	< 1	680.7	< 1	646.3	< 1	0.0	0	61,002.1	3
Status 4	0.0	0	0.0	0	0.0	0	56.8	< 1	146.6	< 1	2,035,910.3	96	2,038,172.2	96
Total	1,208.0	< 1	9.1	< 1	1,191.3	< 1	1,471.2	< 1	792.9	< 1	2,035,910.3	96	2,117,716.2	100

Common Name: GREAT CRESTED FLYCATCHER
Scientific Name: MYIARCHUS CRINITUS

ITIS TSN: 178309
NS EICode: ABPAE43070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.5	< 1	936.0	< 1	1,629.3	< 1	0.0	0	1,594.6	< 1	62.8	< 1	373.8	< 1
Status 2	11,768.9	< 1	0.0	0	2,414.6	< 1	0.0	0	2,833.6	< 1	209.3	< 1	8,995.1	< 1
Status 3	0.0	0	33,255.6	< 1	455.0	< 1	81,410.7	2	21.5	< 1	7,210.1	< 1	21,145.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,535.3	< 1	5.4	< 1	0.0	0	875.2	< 1
Total	11,775.4	< 1	34,191.6	< 1	4,498.9	< 1	82,946.0	2	4,455.1	< 1	7,482.2	< 1	31,389.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	625.7	< 1	7.1	< 1	943.7	< 1	164.2	< 1	0.0	0	6,343.7	< 1
Status 2	79.1	< 1	18.7	< 1	687.4	< 1	1,071.4	< 1	0.0	0	33.4	< 1	28,111.6	< 1
Status 3	5,573.3	< 1	0.0	0	764.2	< 1	1,572.8	< 1	1,084.9	< 1	0.0	0	152,493.8	4
Status 4	0.0	0	0.0	0	80.6	< 1	97.4	< 1	257.9	< 1	3,569,206.4	95	3,572,058.2	95
Total	5,652.5	< 1	644.4	< 1	1,539.4	< 1	3,685.2	< 1	1,507.0	< 1	3,569,239.8	95	3,759,007.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN KINGBIRD
Scientific Name: TYRANNUS TYRANNUS

ITIS TSN: 178279
NS EICode: ABPAE52060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,421.8	< 1	1,055.3	< 1	0.0	0	2,759.0	< 1	193.5	< 1	432.0	< 1
Status 2	57,560.7	1	0.0	0	1,629.2	< 1	0.0	0	3,627.4	< 1	207.6	< 1	42,439.4	1
Status 3	0.0	0	50,673.4	1	1,981.5	< 1	108,856.6	3	21.5	< 1	22,481.9	< 1	22,882.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,540.5	< 1	5.4	< 1	0.0	0	952.0	< 1
Total	57,567.4	1	63,095.2	1	4,666.1	< 1	110,397.2	3	6,413.3	< 1	22,883.0	< 1	66,705.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,579.1	< 1	7.1	< 1	6,038.6	< 1	178.8	< 1	0.0	0	25,672.1	< 1
Status 2	71.9	< 1	26.2	< 1	658.9	< 1	1,747.1	< 1	0.0	0	46.4	< 1	108,014.7	3
Status 3	9,930.2	< 1	0.0	0	783.4	< 1	1,770.8	< 1	1,108.2	< 1	0.0	0	220,489.7	5
Status 4	0.0	0	0.0	0	91.8	< 1	106.8	< 1	253.9	< 1	3,856,175.6	92	3,859,126.1	92
Total	10,002.1	< 1	2,605.3	< 1	1,541.2	< 1	9,663.3	< 1	1,540.9	< 1	3,856,222.1	92	4,213,302.6	100

Common Name: HORNED LARK
Scientific Name: EREMOPHILA ALPESTRIS

ITIS TSN: 554256
NS EICode: ABPAT02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	321.4	< 1	1,434.3	< 1	0.0	0	554.7	< 1	0.0	0	72.5	< 1
Status 2	4,568.7	< 1	0.0	0	1,910.3	< 1	0.0	0	727.2	< 1	134.7	< 1	1,915.2	< 1
Status 3	0.0	0	11,734.2	< 1	44.5	< 1	7,405.7	< 1	16.6	< 1	70.3	< 1	1,450.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	56.6	< 1	2.8	< 1	0.0	0	298.2	< 1
Total	4,568.7	< 1	12,055.6	< 1	3,389.0	< 1	7,462.4	< 1	1,301.2	< 1	205.0	< 1	3,736.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	268.8	< 1	< 0.1	< 1	0.0	0	2,651.8	< 1
Status 2	55.8	< 1	0.0	0	259.7	< 1	302.7	< 1	0.0	0	0.0	0	9,874.2	< 1
Status 3	223.0	< 1	0.0	0	300.3	< 1	310.7	< 1	1,810.4	< 1	0.0	0	23,366.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	91.4	< 1	626.5	< 1	2,935,569.4	99	2,936,644.9	99
Total	278.8	< 1	0.0	0	560.1	< 1	973.6	< 1	2,437.0	< 1	2,935,569.4	99	2,972,537.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PURPLE MARTIN
Scientific Name: *PROGNE SUBIS*

ITIS TSN: 178464
NS EICode: ABPAU01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	53.2	< 1	468.2	< 1	1,668.1	< 1	0.0	0	1,247.5	< 1	3.6	< 1	281.3	< 1
Status 2	13,570.0	< 1	0.0	0	3,857.1	< 1	0.0	0	1,987.1	< 1	210.2	< 1	4,891.1	< 1
Status 3	0.0	0	17,890.9	< 1	2,736.6	< 1	17,854.7	< 1	17.4	< 1	3,896.1	< 1	2,112.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,561.3	< 1	4.3	< 1	0.0	0	538.7	< 1
Total	13,623.2	< 1	18,359.1	< 1	8,261.8	< 1	19,416.1	< 1	3,256.3	< 1	4,109.9	< 1	7,823.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	403.2	< 1	15.0	< 1	483.8	< 1	104.9	< 1	0.0	0	4,728.8	< 1
Status 2	57.6	< 1	129.3	< 1	539.8	< 1	899.0	< 1	0.0	0	25.7	< 1	26,167.1	< 1
Status 3	1,875.3	< 1	0.0	0	610.7	< 1	914.2	< 1	2,536.2	< 1	0.0	0	50,444.5	1
Status 4	0.0	0	0.0	0	286.9	< 1	117.6	< 1	665.9	< 1	4,546,147.2	98	4,549,322.0	98
Total	1,932.9	< 1	532.5	< 1	1,452.4	< 1	2,414.7	< 1	3,307.0	< 1	4,546,173.0	98	4,630,662.3	100

Common Name: TREE SWALLOW
Scientific Name: *TACHYCINETA BICOLOR*

ITIS TSN: 178431
NS EICode: ABPAU03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,449.7	< 1	1,588.0	< 1	1,093.1	< 1	0.0	0	1,254.2	< 1	0.0	0	395.8	< 1
Status 2	19,266.8	2	0.0	0	4,484.5	< 1	0.0	0	1,245.7	< 1	5.3	< 1	5,240.8	< 1
Status 3	0.0	0	16,221.6	2	2,810.0	< 1	18,852.8	2	0.0	0	87.8	< 1	1,056.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,767.7	< 1	0.0	0	0.0	0	0.0	0
Total	20,716.6	2	17,809.6	2	8,387.6	< 1	20,620.4	2	2,499.9	< 1	93.2	< 1	6,692.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,969.1	< 1	15.2	< 1	822.1	< 1	0.0	0	0.0	0	8,587.2	< 1
Status 2	30.9	< 1	165.5	< 1	259.4	< 1	644.8	< 1	0.0	0	0.0	0	31,343.7	3
Status 3	156.8	< 1	0.0	0	443.7	< 1	659.9	< 1	1,632.1	< 1	0.0	0	41,920.9	4
Status 4	0.0	0	0.0	0	15.4	< 1	22.6	< 1	104.2	< 1	939,677.9	92	941,587.7	92
Total	187.7	< 1	2,134.6	< 1	733.7	< 1	2,149.3	< 1	1,736.3	< 1	939,677.9	92	1,023,439.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN ROUGH-WINGED SWALLOW

ITIS TSN: 178443

Scientific Name: *STELGIDOPTERYX SERRIPENNIS*

NS EICode: ABPAU07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	54.3	< 1	387.7	< 1	1,616.2	< 1	0.0	0	1,166.4	< 1	3.6	< 1	285.2	< 1
Status 2	11,595.3	< 1	0.0	0	1,984.2	< 1	0.0	0	1,880.5	< 1	216.5	< 1	4,484.0	< 1
Status 3	0.0	0	17,336.3	< 1	570.3	< 1	53,700.7	1	17.4	< 1	874.6	< 1	14,504.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,540.6	< 1	4.3	< 1	0.0	0	851.0	< 1
Total	11,649.6	< 1	17,724.1	< 1	4,170.8	< 1	55,241.3	1	3,068.6	< 1	1,094.8	< 1	20,124.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	123.0	< 1	25.9	< 1	622.4	< 1	34.6	< 1	0.0	0	4,319.4	< 1
Status 2	57.2	< 1	126.4	< 1	635.2	< 1	864.7	< 1	0.0	0	25.7	< 1	21,869.7	< 1
Status 3	1,791.5	< 1	0.0	0	906.8	< 1	1,233.9	< 1	2,471.2	< 1	0.0	0	93,407.4	2
Status 4	0.0	0	0.0	0	279.5	< 1	112.4	< 1	637.4	< 1	4,494,720.3	97	4,498,145.6	97
Total	1,848.7	< 1	249.4	< 1	1,847.4	< 1	2,833.5	< 1	3,143.2	< 1	4,494,746.1	97	4,617,742.1	100

Common Name: CLIFF SWALLOW

ITIS TSN: 178455

Scientific Name: *PETROCHELIDON PYRRHONOTA*

NS EICode: ABPAU09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	86.7	< 1	1,144.6	< 1	0.0	0	918.7	< 1	0.0	0	21.8	< 1
Status 2	7,030.4	< 1	0.0	0	4,838.9	< 1	0.0	0	962.5	< 1	15.6	< 1	3,484.7	< 1
Status 3	0.0	0	3,653.6	< 1	1,824.8	< 1	12,507.3	< 1	0.0	0	128.8	< 1	1,865.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,081.9	< 1	3.9	< 1	0.0	0	61.4	< 1
Total	7,030.4	< 1	3,740.2	< 1	7,808.2	< 1	14,589.2	< 1	1,885.1	< 1	144.4	< 1	5,433.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	419.3	< 1	25.9	< 1	868.1	< 1	0.0	0	0.0	0	3,485.1	< 1
Status 2	0.0	0	162.6	< 1	386.6	< 1	911.6	< 1	0.0	0	0.0	0	17,792.9	< 1
Status 3	107.6	< 1	0.0	0	761.9	< 1	340.3	< 1	102.2	< 1	0.0	0	21,291.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	83.2	< 1	369.9	< 1	2,443,979.9	98	2,446,580.1	98
Total	107.6	< 1	581.9	< 1	1,174.5	< 1	2,203.1	< 1	472.1	< 1	2,443,979.9	98	2,489,149.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BARN SWALLOW
Scientific Name: *HIRUNDO RUSTICA*

ITIS TSN: 178448
NS EICode: ABPAU09030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,870.9	< 1	385.2	< 1	1,616.2	< 1	0.0	0	2,227.7	< 1	6.9	< 1	716.5	< 1
Status 2	24,243.8	< 1	0.0	0	7,527.7	< 1	0.0	0	2,280.2	< 1	196.4	< 1	7,775.3	< 1
Status 3	0.0	0	16,853.1	< 1	6,207.7	< 1	21,399.0	< 1	17.4	< 1	871.8	< 1	2,066.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,082.0	< 1	4.3	< 1	0.0	0	531.4	< 1
Total	26,114.7	< 1	17,238.3	< 1	15,351.6	< 1	23,481.0	< 1	4,529.6	< 1	1,075.1	< 1	11,090.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,808.1	< 1	25.9	< 1	1,381.1	< 1	34.6	< 1	0.0	0	10,073.2	< 1
Status 2	57.2	< 1	271.3	< 1	628.3	< 1	1,256.6	< 1	0.0	0	25.9	< 1	44,262.5	< 1
Status 3	1,046.9	< 1	0.0	0	761.9	< 1	1,485.5	< 1	2,505.5	< 1	0.0	0	53,215.7	1
Status 4	0.0	0	0.0	0	274.5	< 1	108.2	< 1	637.4	< 1	4,359,690.0	98	4,363,327.7	98
Total	1,104.0	< 1	2,079.4	< 1	1,690.7	< 1	4,231.4	< 1	3,177.5	< 1	4,359,715.9	98	4,470,879.2	100

Common Name: BLUE JAY
Scientific Name: *CYANOCITTA CRISTATA*

ITIS TSN: 179680
NS EICode: ABPAV02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.4	< 1	37,509.8	< 1	94,602.9	2	0.0	0	19,447.4	< 1	816.6	< 1	8,375.9	< 1
Status 2	95,762.9	2	0.0	0	15,788.0	< 1	0.0	0	18,534.9	< 1	1,221.4	< 1	74,552.1	1
Status 3	0.0	0	405,872.4	7	1,207.3	< 1	60,663.0	< 1	33.2	< 1	20,315.4	< 1	8,179.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	797.2	< 1	40.9	< 1	0.0	0	328.0	< 1
Total	95,767.3	2	443,382.1	7	111,598.1	2	61,460.2	< 1	38,056.3	< 1	22,353.4	< 1	91,435.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,153.2	< 1	6.8	< 1	9,268.0	< 1	51.6	< 1	0.0	0	177,236.5	3
Status 2	625.7	< 1	16.2	< 1	8,287.2	< 1	5,363.4	< 1	0.0	0	297.4	< 1	220,449.1	4
Status 3	9,975.5	< 1	0.0	0	1,181.1	< 1	13,100.5	< 1	1,047.0	< 1	0.0	0	521,574.9	8
Status 4	0.0	0	0.0	0	47.7	< 1	679.5	< 1	872.7	< 1	5,260,599.3	85	5,263,365.2	85
Total	10,601.3	< 1	7,169.4	< 1	9,522.7	< 1	28,411.4	< 1	1,971.3	< 1	5,260,896.6	85	6,182,625.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN CROW

Scientific Name: *CORVUS BRACHYRHYNCHOS*

ITIS TSN: 179731

NS EICode: ABPAV10010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.5	< 1	41,735.3	< 1	111,204.9	< 1	0.0	0	24,856.5	< 1	909.8	< 1	8,696.3	< 1
Status 2	124,651.2	1	0.0	0	20,125.8	< 1	0.0	0	27,263.4	< 1	1,590.7	< 1	94,010.6	< 1
Status 3	0.0	0	458,312.2	4	1,806.6	< 1	150,964.0	1	51.6	< 1	34,961.8	< 1	32,481.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,147.9	< 1	47.3	< 1	0.0	0	1,653.8	< 1
Total	124,676.6	1	500,047.5	4	133,137.3	1	153,111.9	1	52,218.8	< 1	37,462.2	< 1	136,842.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,454.7	< 1	11.8	< 1	10,889.3	< 1	244.4	< 1	0.0	0	207,028.4	2
Status 2	719.7	< 1	147.7	< 1	9,809.1	< 1	7,692.8	< 1	0.0	0	338.2	< 1	286,349.1	2
Status 3	17,837.3	< 1	0.0	0	2,226.2	< 1	16,005.2	< 1	4,389.2	< 1	0.0	0	719,035.4	6
Status 4	0.0	0	0.0	0	354.2	< 1	845.2	< 1	1,636.7	< 1	11,193,974.6	90	11,200,659.8	90
Total	18,557.0	< 1	8,602.4	< 1	12,401.3	< 1	35,432.4	< 1	6,270.4	< 1	11,194,312.9	90	12,413,072.6	100

Common Name: FISH CROW

Scientific Name: *CORVUS OSSIFRAGUS*

ITIS TSN: 179737

NS EICode: ABPAV10080

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,821.4	< 1	12,002.2	< 1	0.0	0	0.0	0	10,955.0	< 1	703.2	< 1	6,458.2	< 1
Status 2	120,917.3	6	0.0	0	5,747.3	< 1	0.0	0	4,945.8	< 1	798.7	< 1	55,926.8	3
Status 3	0.0	0	32,673.0	2	7,201.4	< 1	60,834.8	3	23.0	< 1	19,202.4	< 1	4,282.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,011.1	< 1	8.6	< 1	0.0	0	246.8	< 1
Total	122,738.8	6	44,675.2	2	12,948.7	< 1	62,845.9	3	15,932.3	< 1	20,704.2	1	66,914.2	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,666.0	< 1	3.0	< 1	7,509.7	< 1	56.3	< 1	0.0	0	49,175.0	3
Status 2	0.0	0	161.1	< 1	346.2	< 1	4,204.7	< 1	0.0	0	237.8	< 1	193,285.7	10
Status 3	6,926.7	< 1	0.0	0	339.3	< 1	8,473.7	< 1	340.3	< 1	0.0	0	140,296.8	7
Status 4	0.0	0	0.0	0	43.9	< 1	39.1	< 1	367.7	< 1	1,579,448.8	80	1,582,165.9	81
Total	6,926.7	< 1	9,827.1	< 1	732.4	< 1	20,227.1	1	764.3	< 1	1,579,686.6	80	1,964,923.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON RAVEN
Scientific Name: CORVUS CORAX

ITIS TSN: 179725
NS EICode: ABPAV10110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	26,570.3	1	110,118.5	6	0.0	0	9,525.4	< 1	0.0	0	1,211.4	< 1
Status 2	0.0	0	0.0	0	19,042.7	< 1	0.0	0	5,950.6	< 1	23.8	< 1	13,818.9	< 1
Status 3	0.0	0	374,660.5	20	101.8	< 1	0.0	0	0.0	0	63.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	116.6	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	401,230.7	21	129,263.0	7	116.6	< 1	15,476.0	< 1	87.6	< 1	15,030.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	2,218.5	< 1	0.3	< 1	0.0	0	149,644.4	8
Status 2	639.2	< 1	0.0	0	7,387.6	< 1	1,066.9	< 1	0.0	0	0.0	0	47,929.6	3
Status 3	2,519.3	< 1	0.0	0	0.0	0	3,579.8	< 1	0.0	0	0.0	0	380,925.1	20
Status 4	0.0	0	0.0	0	0.0	0	442.1	< 1	172.2	< 1	1,332,805.3	70	1,333,536.2	70
Total	3,158.5	< 1	0.0	0	7,387.6	< 1	7,307.2	< 1	172.4	< 1	1,332,805.3	70	1,912,035.2	100

Common Name: BLACK-CAPPED CHICKADEE
Scientific Name: POECILE ATRICAPILLUS

ITIS TSN: 554382
NS EICode: ABPAW01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,755.5	10	9,246.4	53	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,094.1	6	0.0	0	0.0	0	0.0	0	9.7	< 1
Status 3	0.0	0	2,597.0	15	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	4,352.6	25	10,340.6	59	0.0	0	0.0	0	0.0	0	9.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	17.3	< 1	0.0	0	0.0	0	11,019.2	63
Status 2	0.0	0	0.0	0	117.7	< 1	0.0	0	0.0	0	0.0	0	1,221.6	7
Status 3	0.0	0	0.0	0	0.0	0	12.6	< 1	0.0	0	0.0	0	2,609.6	15
Status 4	0.0	0	0.0	0	0.0	0	7.9	< 1	0.0	0	2,715.8	15	2,723.7	15
Total	0.0	0	0.0	0	117.7	< 1	37.8	< 1	0.0	0	2,715.8	15	17,574.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CAROLINA CHICKADEE
Scientific Name: POECILE CAROLINENSIS

ITIS TSN: 554383
NS EICode: ABPAW01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,501.2	< 1	97,168.5	1	0.0	0	24,290.6	< 1	909.6	< 1	8,592.7	< 1
Status 2	117,983.1	1	0.0	0	16,332.1	< 1	0.0	0	25,925.8	< 1	1,458.3	< 1	91,705.7	1
Status 3	0.0	0	436,820.9	5	997.3	< 1	142,376.7	2	36.3	< 1	33,888.6	< 1	30,878.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,081.6	< 1	44.3	< 1	0.0	0	1,200.2	< 1
Total	117,987.8	1	474,322.1	5	114,497.9	1	144,458.3	2	50,296.9	< 1	36,256.5	< 1	132,377.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,311.3	< 1	11.8	< 1	10,248.3	< 1	222.2	< 1	0.0	0	187,260.9	2
Status 2	663.9	< 1	24.4	< 1	8,889.6	< 1	6,999.4	< 1	0.0	0	321.0	< 1	270,303.2	3
Status 3	16,940.8	< 1	0.0	0	2,026.9	< 1	14,167.4	< 1	2,793.9	< 1	0.0	0	680,927.1	8
Status 4	0.0	0	0.0	0	89.2	< 1	751.9	< 1	1,010.3	< 1	7,700,683.3	87	7,705,860.7	87
Total	17,604.7	< 1	8,335.7	< 1	11,017.4	< 1	32,166.9	< 1	4,026.3	< 1	7,701,004.4	87	8,844,351.9	100

Common Name: TUFTED TITMOUSE
Scientific Name: BAEOLOPHUS BICOLOR

ITIS TSN: 554138
NS EICode: ABPAW01110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,496.5	< 1	97,160.5	1	0.0	0	24,286.8	< 1	909.6	< 1	8,591.9	< 1
Status 2	117,957.2	1	0.0	0	16,255.7	< 1	0.0	0	25,854.0	< 1	1,457.2	< 1	91,566.8	1
Status 3	0.0	0	436,420.6	5	992.4	< 1	138,468.9	2	36.0	< 1	33,888.2	< 1	30,829.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,071.2	< 1	44.0	< 1	0.0	0	1,172.6	< 1
Total	117,962.0	1	473,917.1	5	114,408.6	1	140,540.0	2	50,220.8	< 1	36,255.1	< 1	132,161.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,308.1	< 1	11.8	< 1	10,243.2	< 1	222.2	< 1	0.0	0	187,235.4	2
Status 2	663.3	< 1	24.2	< 1	8,865.6	< 1	6,990.7	< 1	0.0	0	321.0	< 1	269,955.8	3
Status 3	16,919.0	< 1	0.0	0	2,016.6	< 1	14,163.8	< 1	2,787.7	< 1	0.0	0	676,523.0	8
Status 4	0.0	0	0.0	0	87.1	< 1	747.1	< 1	1,008.9	< 1	7,556,099.0	87	7,561,229.9	87
Total	17,582.3	< 1	8,332.3	< 1	10,981.2	< 1	32,144.7	< 1	4,018.8	< 1	7,556,420.0	87	8,694,944.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED-BREASTED NUTHATCH
Scientific Name: *SITTA CANADENSIS*

ITIS TSN: 178784
NS EICode: ABPAZ01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,699.3	4	12,732.3	30	0.0	0	13.0	<1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,586.2	4	0.0	0	442.2	1	0.0	0	72.5	<1
Status 3	0.0	0	8,396.6	20	0.0	0	0.0	0	0.0	0	3.6	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	10,095.9	24	14,318.5	34	0.0	0	455.1	1	3.6	<1	72.5	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	366.5	<1	0.0	0	0.0	0	14,811.0	35
Status 2	0.4	<1	0.0	0	446.2	1	30.2	<1	0.0	0	0.0	0	2,577.6	6
Status 3	0.0	0	0.0	0	0.0	0	720.0	2	0.0	0	0.0	0	9,120.2	22
Status 4	0.0	0	0.0	0	0.0	0	0.8	<1	0.0	0	15,635.6	37	15,636.4	37
Total	0.4	<1	0.0	0	446.2	1	1,117.4	3	0.0	0	15,635.6	37	42,145.3	100

Common Name: WHITE-BREASTED NUTHATCH
Scientific Name: *SITTA CAROLINENSIS*

ITIS TSN: 178775
NS EICode: ABPAZ01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	<1	37,298.3	<1	96,530.3	1	0.0	0	24,027.3	<1	909.6	<1	8,573.0	<1
Status 2	116,746.7	1	0.0	0	15,396.2	<1	0.0	0	25,521.4	<1	1,456.6	<1	90,574.1	1
Status 3	0.0	0	434,162.6	5	685.5	<1	135,008.0	2	36.0	<1	32,666.2	<1	30,589.5	<1
Status 4	0.0	0	0.0	0	0.0	0	1,009.0	<1	44.0	<1	0.0	0	1,160.6	<1
Total	116,751.5	1	471,460.9	6	112,612.1	1	136,017.0	2	49,628.7	<1	35,032.4	<1	130,897.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,149.4	<1	9.5	<1	10,154.2	<1	220.0	<1	0.0	0	185,876.2	2
Status 2	656.0	<1	24.2	<1	8,802.1	<1	6,896.6	<1	0.0	0	314.5	<1	266,388.4	3
Status 3	16,134.8	<1	0.0	0	1,948.7	<1	14,078.2	<1	2,349.9	<1	0.0	0	667,659.4	8
Status 4	0.0	0	0.0	0	83.3	<1	745.5	<1	1,005.0	<1	7,262,818.1	87	7,266,865.5	87
Total	16,790.9	<1	8,173.6	<1	10,843.5	<1	31,874.4	<1	3,574.9	<1	7,263,132.6	87	8,386,789.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BROWN-HEADED NUTHATCH
Scientific Name: *SITTA PUSILLA*

ITIS TSN: 178785
NS EICode: ABPAZ01040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.5	< 1	13,404.9	< 1	0.0	0	0.0	0	12,588.8	< 1	589.4	< 1	5,365.3	< 1
Status 2	90,574.7	2	0.0	0	250.8	< 1	0.0	0	12,120.8	< 1	543.6	< 1	62,283.6	1
Status 3	0.0	0	57,719.2	1	101.0	< 1	120,356.3	3	6.4	< 1	30,946.6	< 1	25,856.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	313.7	< 1	14.5	< 1	0.0	0	1,016.8	< 1
Total	90,579.2	2	71,124.0	2	351.8	< 1	120,669.9	3	24,730.4	< 1	32,079.6	< 1	94,521.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,111.2	< 1	4.8	< 1	7,340.7	< 1	187.3	< 1	0.0	0	45,596.7	1
Status 2	0.0	0	19.3	< 1	1,078.0	< 1	4,141.2	< 1	0.0	0	206.6	< 1	171,218.6	4
Status 3	11,580.0	< 1	0.0	0	1,190.4	< 1	8,551.4	< 1	1,772.8	< 1	0.0	0	258,080.3	6
Status 4	0.0	0	0.0	0	71.5	< 1	162.3	< 1	368.3	< 1	3,972,779.5	89	3,974,726.4	89
Total	11,580.0	< 1	6,130.4	< 1	2,344.7	< 1	20,195.6	< 1	2,328.4	< 1	3,972,986.1	89	4,449,622.1	100

Common Name: BROWN CREEPER
Scientific Name: *CERTHIA AMERICANA*

ITIS TSN: 178803
NS EICode: ABPBA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,171.2	7	10,933.1	34	0.0	0	7.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,509.7	5	0.0	0	444.0	1	0.0	0	48.3	< 1
Status 3	0.0	0	7,337.3	23	0.0	0	0.0	0	0.0	0	1.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	9,508.4	29	12,442.8	38	0.0	0	451.1	1	1.3	< 1	48.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	251.5	< 1	0.0	0	0.0	0	13,362.8	41
Status 2	0.0	0	0.0	0	567.5	2	12.7	< 1	0.0	0	0.0	0	2,582.2	8
Status 3	0.0	0	0.0	0	0.0	0	839.0	3	0.0	0	0.0	0	8,177.5	25
Status 4	0.0	0	0.0	0	0.0	0	8.6	< 1	0.0	0	8,258.5	25	8,267.0	26
Total	0.0	0	0.0	0	567.5	2	1,111.7	3	0.0	0	8,258.5	25	32,389.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CAROLINA WREN

Scientific Name: *THRYOTHORUS LUDOVICIANUS*

ITIS TSN: 178581

NS EICode: ABPBG06130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,519.3	< 1	1,315.0	< 1	0.0	0	2,722.4	< 1	212.0	< 1	432.1	< 1
Status 2	57,518.9	1	0.0	0	2,245.9	< 1	0.0	0	3,583.5	< 1	209.7	< 1	42,565.4	< 1
Status 3	0.0	0	56,940.6	1	817.2	< 1	108,718.2	3	21.5	< 1	22,487.0	< 1	22,882.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,535.3	< 1	5.4	< 1	0.0	0	952.0	< 1
Total	57,525.7	1	69,459.8	2	4,378.1	< 1	110,253.5	3	6,332.9	< 1	22,908.6	< 1	66,831.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,280.0	< 1	7.1	< 1	6,034.9	< 1	178.8	< 1	0.0	0	25,708.2	< 1
Status 2	79.1	< 1	26.2	< 1	676.4	< 1	1,851.6	< 1	0.0	0	50.7	< 1	108,807.3	3
Status 3	9,934.5	< 1	0.0	0	786.9	< 1	1,852.7	< 1	1,108.3	< 1	0.0	0	225,549.0	5
Status 4	0.0	0	0.0	0	91.8	< 1	109.5	< 1	274.5	< 1	3,922,464.2	92	3,925,432.7	92
Total	10,013.6	< 1	2,306.2	< 1	1,562.1	< 1	9,848.7	< 1	1,561.6	< 1	3,922,514.8	92	4,285,497.3	100

Common Name: HOUSE WREN

Scientific Name: *TROGLODYTES AEDON*

ITIS TSN: 178541

NS EICode: ABPBG09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	14,707.4	< 1	5,612.9	< 1	0.0	0	2,636.4	< 1	193.5	< 1	431.3	< 1
Status 2	57,163.6	1	0.0	0	3,894.2	< 1	0.0	0	3,202.0	< 1	209.7	< 1	42,510.2	1
Status 3	0.0	0	63,041.0	2	403.0	< 1	105,766.4	3	21.5	< 1	22,484.3	< 1	22,882.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,513.0	< 1	5.4	< 1	0.0	0	952.0	< 1
Total	57,170.3	1	77,748.3	2	9,910.1	< 1	107,279.4	3	5,865.3	< 1	22,887.5	< 1	66,775.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,105.5	< 1	7.1	< 1	6,220.1	< 1	178.8	< 1	0.0	0	32,099.6	< 1
Status 2	79.1	< 1	26.2	< 1	949.9	< 1	1,796.6	< 1	0.0	0	46.4	< 1	109,878.0	3
Status 3	9,810.5	< 1	0.0	0	786.9	< 1	1,856.6	< 1	1,108.2	< 1	0.0	0	228,160.4	6
Status 4	0.0	0	0.0	0	93.2	< 1	115.7	< 1	274.5	< 1	3,766,861.9	91	3,769,815.8	91
Total	9,889.6	< 1	2,131.7	< 1	1,837.1	< 1	9,989.0	< 1	1,561.5	< 1	3,766,908.3	91	4,139,953.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WINTER WREN

Scientific Name: *TROGLODYTES TROGLODYTES*

ITIS TSN: 178547

NS EICode: ABPBG09050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,489.2	5	28,734.1	18	0.0	0	80.8	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	3,443.6	2	0.0	0	446.1	< 1	0.3	< 1	742.3	< 1
Status 3	0.0	0	48,053.0	30	0.0	0	0.0	0	0.0	0	12.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	55,542.2	34	32,177.7	20	0.0	0	527.0	< 1	13.1	< 1	742.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	723.4	< 1	0.0	0	0.0	0	37,027.5	23
Status 2	0.1	< 1	0.0	0	2,291.1	1	209.1	< 1	0.0	0	0.0	0	7,132.6	4
Status 3	0.0	0	0.0	0	0.0	0	1,768.3	1	0.0	0	0.0	0	49,834.1	31
Status 4	0.0	0	0.0	0	0.0	0	31.8	< 1	0.0	0	68,482.4	42	68,514.1	42
Total	0.1	< 1	0.0	0	2,291.1	1	2,732.6	2	0.0	0	68,482.4	42	162,508.4	100

Common Name: MARSH WREN

Scientific Name: *CISTOTHORUS PALUSTRIS*

ITIS TSN: 178608

NS EICode: ABPBG10020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	9.9	< 1	0.0	0	0.0	0	1,124.8	< 1	5.9	< 1	436.4	< 1
Status 2	18,627.5	16	0.0	0	5,102.6	4	0.0	0	643.7	< 1	0.0	0	3,994.4	3
Status 3	0.0	0	278.2	< 1	4,997.2	4	8,563.9	7	0.0	0	123.9	< 1	1.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	565.2	< 1	0.0	0	0.0	0	0.0	0
Total	20,444.1	17	288.1	< 1	10,099.7	9	9,129.1	8	1,768.5	1	129.9	< 1	4,432.2	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,579.7	1	0.0	0	947.3	< 1	0.0	0	0.0	0	5,920.7	5
Status 2	0.0	0	145.1	< 1	2.3	< 1	472.4	< 1	0.0	0	0.6	< 1	28,988.6	24
Status 3	0.0	0	0.0	0	0.0	0	619.6	< 1	34.8	< 1	0.0	0	14,619.0	12
Status 4	0.0	0	0.0	0	3.7	< 1	0.0	0	0.2	< 1	68,509.2	58	69,078.2	58
Total	0.0	0	1,724.8	1	6.0	< 1	2,039.2	2	35.0	< 1	68,509.8	58	118,606.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GOLDEN-CROWNED KINGLET
Scientific Name: *REGULUS SATRAPA*

ITIS TSN: 179865
NS EICode: ABPBJ05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	767.3	4	8,702.0	43	0.0	0	3.0	<1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,043.3	5	0.0	0	438.5	2	0.6	<1	14.9	<1
Status 3	0.0	0	3,587.0	18	0.0	0	0.0	0	0.0	0	1.2	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	4,354.2	21	9,745.3	48	0.0	0	441.5	2	1.8	<1	14.9	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	199.7	<1	0.0	0	0.0	0	9,671.9	47
Status 2	0.0	0	0.0	0	320.0	2	12.1	<1	0.0	0	0.0	0	1,829.3	9
Status 3	0.0	0	0.0	0	0.0	0	536.9	3	0.0	0	0.0	0	4,125.0	20
Status 4	0.0	0	0.0	0	0.0	0	0.4	<1	0.2	<1	4,808.1	24	4,808.6	24
Total	0.0	0	0.0	0	320.0	2	749.0	4	0.2	<1	4,808.1	24	20,434.9	100

Common Name: BLUE-GRAY GNATCATCHER
Scientific Name: *POLIOPTILA CAERULEA*

ITIS TSN: 179853
NS EICode: ABPBJ08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	2.4	<1	4,421.8	<1	18,410.8	<1	0.0	0	10,317.5	<1	698.7	<1	6,690.8	<1
Status 2	50,862.1	2	0.0	0	3,412.4	<1	0.0	0	5,678.2	<1	940.4	<1	21,910.5	<1
Status 3	0.0	0	83,276.0	3	150.8	<1	25,197.8	1	23.0	<1	5,468.3	<1	3,157.0	<1
Status 4	0.0	0	0.0	0	0.0	0	1,609.0	<1	14.8	<1	0.0	0	184.8	<1
Total	50,864.5	2	87,697.8	4	21,974.0	<1	26,806.9	1	16,033.5	<1	7,107.4	<1	31,943.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,328.4	<1	4.7	<1	2,141.5	<1	86.6	<1	0.0	0	48,103.0	2
Status 2	172.7	<1	8.5	<1	1,766.1	<1	3,663.0	<1	0.0	0	281.2	<1	88,695.0	4
Status 3	3,547.4	<1	0.0	0	461.7	<1	9,831.1	<1	472.5	<1	0.0	0	131,585.8	5
Status 4	0.0	0	0.0	0	33.0	<1	142.2	<1	460.4	<1	2,168,456.2	89	2,170,900.4	89
Total	3,720.1	<1	5,336.8	<1	2,265.5	<1	15,777.7	<1	1,019.5	<1	2,168,737.4	89	2,439,284.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN BLUEBIRD

Scientific Name: *SIALIA SIALIS*

ITIS TSN: 179801

NS EICode: ABPBJ15010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	757.1	< 1	1,059.7	< 1	0.0	0	2,796.7	< 1	0.2	< 1	199.3	< 1
Status 2	8,372.5	< 1	0.0	0	1,548.6	< 1	0.0	0	3,405.4	< 1	267.1	< 1	8,136.5	< 1
Status 3	0.0	0	21,471.8	< 1	74.8	< 1	64,100.9	1	16.9	< 1	4,161.9	< 1	19,180.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	155.0	< 1	9.4	< 1	0.0	0	1,039.6	< 1
Total	8,393.0	< 1	22,228.9	< 1	2,683.1	< 1	64,255.9	1	6,228.4	< 1	4,429.2	< 1	28,556.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	47.7	< 1	0.4	< 1	710.5	< 1	156.1	< 1	0.0	0	5,747.9	< 1
Status 2	56.0	< 1	4.4	< 1	598.1	< 1	968.5	< 1	0.0	0	24.8	< 1	23,382.0	< 1
Status 3	4,788.3	< 1	0.0	0	614.4	< 1	1,395.2	< 1	2,576.3	< 1	0.0	0	118,381.1	2
Status 4	0.0	0	0.0	0	58.8	< 1	118.9	< 1	740.7	< 1	5,026,237.3	97	5,028,359.6	97
Total	4,844.3	< 1	52.1	< 1	1,271.7	< 1	3,193.0	< 1	3,473.1	< 1	5,026,262.0	97	5,175,870.6	100

Common Name: VEERY

Scientific Name: *CATHARUS FUSCESCENS*

ITIS TSN: 179796

NS EICode: ABPBJ18080

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	13,170.1	4	49,856.5	15	0.0	0	200.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	6,696.9	2	0.0	0	449.6	< 1	1.9	< 1	1,562.3	< 1
Status 3	0.0	0	100,155.4	30	0.0	0	0.0	0	0.0	0	43.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	113,325.5	35	56,553.4	17	0.0	0	650.2	< 1	45.3	< 1	1,562.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,292.1	< 1	0.0	0	0.0	0	64,519.3	20
Status 2	1.5	< 1	0.0	0	4,207.1	1	424.9	< 1	0.0	0	0.0	0	13,344.1	4
Status 3	0.0	0	0.0	0	0.0	0	2,578.1	< 1	0.0	0	0.0	0	102,776.9	31
Status 4	0.0	0	0.0	0	0.0	0	69.8	< 1	0.0	0	147,740.7	45	147,810.4	45
Total	1.5	< 1	0.0	0	4,207.1	1	4,364.8	1	0.0	0	147,740.7	45	328,450.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HERMIT THRUSH
Scientific Name: CATHARUS GUTTATUS

ITIS TSN: 179779
NS EICode: ABPBJ18110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	639.8	5	6,672.2	53	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	687.8	5	0.0	0	438.1	3	0.0	0	1.0	< 1
Status 3	0.0	0	2,156.2	17	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,796.0	22	7,360.0	59	0.0	0	438.1	3	0.0	0	1.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	175.3	1	0.0	0	0.0	0	7,487.4	60
Status 2	0.0	0	0.0	0	280.3	2	0.0	0	0.0	0	0.0	0	1,407.2	11
Status 3	0.0	0	0.0	0	0.0	0	489.4	4	0.0	0	0.0	0	2,645.6	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	978.1	8	978.1	8
Total	0.0	0	0.0	0	280.3	2	664.7	5	0.0	0	978.1	8	12,518.3	100

Common Name: WOOD THRUSH
Scientific Name: HYLOCICHLA MUSTELINA

ITIS TSN: 179777
NS EICode: ABPBJ19010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.6	< 1	26,434.4	< 1	61,903.4	< 1	0.0	0	20,452.2	< 1	904.5	< 1	8,346.8	< 1
Status 2	106,456.3	2	0.0	0	11,157.6	< 1	0.0	0	19,447.1	< 1	1,347.5	< 1	77,736.6	1
Status 3	0.0	0	344,601.0	5	186.6	< 1	75,891.9	1	33.3	< 1	23,236.0	< 1	11,613.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	915.5	< 1	38.7	< 1	0.0	0	474.3	< 1
Total	106,457.9	2	371,035.4	6	73,247.5	1	76,807.4	1	39,971.3	< 1	25,488.0	< 1	98,171.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,447.9	< 1	7.9	< 1	8,246.6	< 1	202.8	< 1	0.0	0	133,948.1	2
Status 2	623.6	< 1	19.6	< 1	5,648.5	< 1	5,359.7	< 1	0.0	0	304.9	< 1	228,101.4	4
Status 3	11,414.3	< 1	0.0	0	1,283.1	< 1	11,461.7	< 1	1,597.6	< 1	0.0	0	481,319.2	8
Status 4	0.0	0	0.0	0	49.9	< 1	612.5	< 1	868.0	< 1	5,526,196.4	87	5,529,155.2	87
Total	12,037.9	< 1	7,467.5	< 1	6,989.4	< 1	25,680.5	< 1	2,668.3	< 1	5,526,501.3	87	6,372,523.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN ROBIN

Scientific Name: *TURDUS MIGRATORIUS*

ITIS TSN: 179759

NS EICode: ABPBJ20170

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	3,064.8	< 1	5,612.9	< 1	0.0	0	1,606.2	< 1	94.1	< 1	362.6	< 1
Status 2	14,031.2	< 1	0.0	0	3,885.2	< 1	0.0	0	3,070.3	< 1	209.7	< 1	9,349.2	< 1
Status 3	0.0	0	37,921.0	< 1	100.9	< 1	84,349.6	2	21.5	< 1	7,220.2	< 1	21,180.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,535.1	< 1	5.4	< 1	0.0	0	888.8	< 1
Total	14,037.9	< 1	40,985.7	1	9,599.0	< 1	85,884.8	2	4,703.4	< 1	7,523.9	< 1	31,781.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	648.6	< 1	7.1	< 1	1,134.5	< 1	164.7	< 1	0.0	0	12,702.2	< 1
Status 2	79.1	< 1	18.7	< 1	948.1	< 1	1,094.1	< 1	0.0	0	34.2	< 1	32,719.8	< 1
Status 3	5,579.6	< 1	0.0	0	784.9	< 1	2,124.8	< 1	1,081.3	< 1	0.0	0	160,364.6	4
Status 4	0.0	0	0.0	0	82.4	< 1	100.4	< 1	257.9	< 1	3,633,801.8	95	3,636,671.9	95
Total	5,658.8	< 1	667.4	< 1	1,822.5	< 1	4,453.8	< 1	1,503.9	< 1	3,633,836.0	95	3,842,458.5	100

Common Name: GRAY CATBIRD

Scientific Name: *DUMETELLA CAROLINENSIS*

ITIS TSN: 178625

NS EICode: ABPBK01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	14,554.0	< 1	5,231.6	< 1	0.0	0	2,387.0	< 1	212.0	< 1	429.9	< 1
Status 2	57,484.3	1	0.0	0	4,505.8	< 1	0.0	0	3,433.7	< 1	188.9	< 1	41,897.1	1
Status 3	0.0	0	61,407.5	2	1,623.3	< 1	65,700.4	2	21.5	< 1	22,476.2	< 1	8,068.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,515.2	< 1	5.2	< 1	0.0	0	551.9	< 1
Total	57,491.0	1	75,961.4	2	11,360.7	< 1	67,215.6	2	5,847.4	< 1	22,877.1	< 1	50,947.6	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,531.3	< 1	6.9	< 1	6,061.0	< 1	178.8	< 1	0.0	0	31,599.2	< 1
Status 2	76.2	< 1	26.2	< 1	887.7	< 1	1,768.3	< 1	0.0	0	50.7	< 1	110,318.7	3
Status 3	8,092.1	< 1	0.0	0	601.6	< 1	1,971.5	< 1	1,099.1	< 1	0.0	0	171,061.8	4
Status 4	0.0	0	0.0	0	87.6	< 1	109.4	< 1	263.2	< 1	3,551,188.6	92	3,553,721.0	92
Total	8,168.3	< 1	2,557.4	< 1	1,583.7	< 1	9,910.2	< 1	1,541.1	< 1	3,551,239.3	92	3,866,700.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN MOCKINGBIRD
Scientific Name: MIMUS POLYGLOTTOS

ITIS TSN: 178620
NS EICode: ABPBK03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.5	< 1	720.6	< 1	955.4	< 1	0.0	0	2,892.5	< 1	0.2	< 1	210.6	< 1
Status 2	8,626.3	< 1	0.0	0	1,913.4	< 1	0.0	0	3,520.2	< 1	267.1	< 1	8,303.0	< 1
Status 3	0.0	0	19,189.2	< 1	1,276.6	< 1	66,680.8	1	16.9	< 1	4,166.3	< 1	19,418.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,217.0	< 1	9.4	< 1	0.0	0	1,050.3	< 1
Total	8,646.8	< 1	19,909.8	< 1	4,145.4	< 1	67,897.8	1	6,439.0	< 1	4,433.6	< 1	28,982.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	310.0	< 1	2.7	< 1	722.7	< 1	156.1	< 1	0.0	0	5,991.3	< 1
Status 2	55.6	< 1	4.4	< 1	631.3	< 1	965.3	< 1	0.0	0	24.8	< 1	24,311.3	< 1
Status 3	4,789.7	< 1	0.0	0	682.3	< 1	1,380.6	< 1	2,576.4	< 1	0.0	0	120,177.5	2
Status 4	0.0	0	0.0	0	58.9	< 1	117.6	< 1	741.0	< 1	5,084,198.6	97	5,087,392.7	97
Total	4,845.3	< 1	314.4	< 1	1,375.1	< 1	3,186.2	< 1	3,473.5	< 1	5,084,223.3	97	5,237,872.7	100

Common Name: BROWN THRASHER
Scientific Name: TOXOSTOMA RUFUM

ITIS TSN: 178627
NS EICode: ABPBK06010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,093.6	< 1	5,072.8	< 1	0.0	0	2,891.3	< 1	209.2	< 1	419.1	< 1
Status 2	60,396.7	1	0.0	0	4,328.2	< 1	0.0	0	3,861.6	< 1	204.4	< 1	43,440.6	1
Status 3	0.0	0	61,959.5	1	2,132.6	< 1	107,897.5	2	21.6	< 1	22,528.5	< 1	22,734.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	612.5	< 1	5.5	< 1	0.0	0	949.0	< 1
Total	60,422.5	1	76,053.2	2	11,533.5	< 1	108,509.9	2	6,780.0	< 1	22,942.1	< 1	67,543.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,688.2	< 1	14.9	< 1	6,303.5	< 1	177.9	< 1	0.0	0	31,896.3	< 1
Status 2	80.0	< 1	58.7	< 1	937.6	< 1	1,917.9	< 1	0.0	0	50.1	< 1	115,275.8	3
Status 3	9,927.2	< 1	0.0	0	914.4	< 1	2,322.8	< 1	1,144.3	< 1	0.0	0	231,582.8	5
Status 4	0.0	0	0.0	0	142.4	< 1	129.2	< 1	279.0	< 1	3,961,634.0	91	3,963,751.5	91
Total	10,007.2	< 1	2,746.9	< 1	2,009.3	< 1	10,673.4	< 1	1,601.2	< 1	3,961,684.2	91	4,342,506.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CEDAR WAXWING

Scientific Name: *BOMBYCILLA CEDRORUM*

ITIS TSN: 178532

NS EICode: ABPBN01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.0	< 1	2,534.8	< 1	5,624.8	< 1	0.0	0	1,569.0	< 1	75.6	< 1	345.2	< 1
Status 2	7,822.7	< 1	0.0	0	3,856.8	< 1	0.0	0	2,807.7	< 1	32.7	< 1	6,145.7	< 1
Status 3	0.0	0	27,275.4	< 1	91.5	< 1	52,637.3	2	0.0	0	171.5	< 1	20,856.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,513.2	< 1	5.4	< 1	0.0	0	714.2	< 1
Total	7,827.8	< 1	29,810.2	< 1	9,573.1	< 1	54,150.5	2	4,382.1	< 1	279.8	< 1	28,061.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	553.3	< 1	7.1	< 1	709.1	< 1	0.4	< 1	0.0	0	11,424.2	< 1
Status 2	79.4	< 1	0.0	0	887.8	< 1	810.0	< 1	0.0	0	30.0	< 1	22,472.7	< 1
Status 3	5,582.6	< 1	0.0	0	764.5	< 1	1,186.7	< 1	1,081.2	< 1	0.0	0	109,647.4	3
Status 4	0.0	0	0.0	0	0.0	0	100.4	< 1	257.6	< 1	3,099,808.4	95	3,102,399.1	96
Total	5,662.0	< 1	553.3	< 1	1,659.3	< 1	2,806.1	< 1	1,339.1	< 1	3,099,838.4	95	3,245,943.4	100

Common Name: LOGGERHEAD SHRIKE

Scientific Name: *LANIUS LUDOVICIANUS*

ITIS TSN: 178515

NS EICode: ABPBR01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	433.6	< 1	0.0	0	0.0	0	1,410.2	< 1	0.0	0	43.6	< 1
Status 2	1,459.2	< 1	0.0	0	33.1	< 1	0.0	0	2,380.0	< 1	262.6	< 1	4,619.6	< 1
Status 3	0.0	0	6,068.6	< 1	49.5	< 1	62,174.2	2	16.9	< 1	4,078.4	< 1	18,767.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	95.5	< 1	9.4	< 1	0.0	0	1,039.6	< 1
Total	1,459.2	< 1	6,502.2	< 1	82.6	< 1	62,269.7	2	3,816.5	< 1	4,341.1	< 1	24,470.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2.1	< 1	0.2	< 1	612.4	< 1	156.0	< 1	0.0	0	2,658.0	< 1
Status 2	0.0	0	4.4	< 1	449.4	< 1	776.7	< 1	0.0	0	0.0	0	9,985.0	< 1
Status 3	4,595.0	< 1	0.0	0	564.7	< 1	1,178.6	< 1	2,540.2	< 1	0.0	0	100,033.2	2
Status 4	0.0	0	0.0	0	9.0	< 1	93.2	< 1	317.5	< 1	3,924,098.6	97	3,925,662.8	97
Total	4,595.0	< 1	6.5	< 1	1,023.2	< 1	2,660.9	< 1	3,013.7	< 1	3,924,098.6	97	4,038,338.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EUROPEAN STARLING
Scientific Name: STURNUS VULGARIS

ITIS TSN: 179637
NS EICode: ABPBT01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.4	< 1	826.9	< 1	1,562.6	< 1	0.0	0	3,463.7	< 1	3.5	< 1	639.0	< 1
Status 2	22,426.9	< 1	0.0	0	7,004.0	< 1	0.0	0	3,427.9	< 1	264.5	< 1	10,872.5	< 1
Status 3	0.0	0	22,294.6	< 1	5,301.7	< 1	75,222.4	1	16.9	< 1	4,119.7	< 1	19,132.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	717.1	< 1	9.5	< 1	0.0	0	1,055.1	< 1
Total	24,264.3	< 1	23,121.5	< 1	13,868.3	< 1	75,939.5	1	6,917.9	< 1	4,387.7	< 1	31,698.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,616.0	< 1	0.2	< 1	1,683.5	< 1	156.1	< 1	0.0	0	11,788.7	< 1
Status 2	56.4	< 1	268.2	< 1	580.4	< 1	1,432.5	< 1	0.0	0	24.9	< 1	46,358.3	< 1
Status 3	4,774.5	< 1	0.0	0	585.6	< 1	1,968.2	< 1	2,574.7	< 1	0.0	0	135,990.5	3
Status 4	0.0	0	0.0	0	257.2	< 1	117.6	< 1	725.9	< 1	5,091,023.6	96	5,093,906.0	96
Total	4,830.9	< 1	1,884.2	< 1	1,423.4	< 1	5,201.8	< 1	3,456.6	< 1	5,091,048.5	96	5,288,043.3	100

Common Name: WHITE-EYED VIREO
Scientific Name: VIREO GRISEUS

ITIS TSN: 178991
NS EICode: ABPBW01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	12,329.0	< 1	503.4	< 1	0.0	0	1,946.9	< 1	211.8	< 1	339.9	< 1
Status 2	56,141.9	3	0.0	0	1,425.3	< 1	0.0	0	2,179.5	< 1	120.0	< 1	39,669.2	2
Status 3	0.0	0	43,399.0	2	1,491.4	< 1	59,638.3	3	5.5	< 1	22,046.6	1	6,856.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,275.5	< 1	1.3	< 1	0.0	0	422.5	< 1
Total	56,146.7	3	55,728.0	3	3,420.1	< 1	60,913.8	3	4,133.2	< 1	22,378.3	1	47,287.6	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,510.7	< 1	4.4	< 1	5,649.0	< 1	176.3	< 1	0.0	0	23,676.2	1
Status 2	15.0	< 1	23.9	< 1	328.2	< 1	1,498.1	< 1	0.0	0	42.8	< 1	101,443.8	5
Status 3	7,617.8	< 1	0.0	0	245.6	< 1	1,081.5	< 1	746.0	< 1	0.0	0	143,127.7	8
Status 4	0.0	0	0.0	0	55.4	< 1	45.9	< 1	86.5	< 1	1,619,082.5	86	1,620,969.4	86
Total	7,632.8	< 1	2,534.6	< 1	633.6	< 1	8,274.5	< 1	1,008.8	< 1	1,619,125.2	86	1,889,217.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLUE-HEADED VIREO
Scientific Name: VIREO SOLITARIUS

ITIS TSN: 179010
NS EICode: ABPBW01160

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,542.6	1	60,254.1	5	0.0	0	3,675.1	< 1	0.0	0	431.7	< 1
Status 2	826.8	< 1	0.0	0	8,584.0	< 1	0.0	0	6,169.1	< 1	78.3	< 1	10,912.8	< 1
Status 3	0.0	0	153,796.0	12	36.5	< 1	7,247.1	< 1	0.0	0	452.1	< 1	4,700.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	169.2	< 1	2.5	< 1	0.0	0	274.6	< 1
Total	826.8	< 1	169,338.6	14	68,874.6	6	7,416.3	< 1	9,846.6	< 1	530.4	< 1	16,320.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	2.7	< 1	1,490.1	< 1	1.1	< 1	0.0	0	81,397.4	7
Status 2	139.4	< 1	0.0	0	5,002.9	< 1	667.4	< 1	0.0	0	0.0	0	32,380.7	3
Status 3	884.8	< 1	0.0	0	577.7	< 1	2,777.5	< 1	948.6	< 1	0.0	0	171,421.0	14
Status 4	0.0	0	0.0	0	0.0	0	189.8	< 1	65.4	< 1	953,041.5	77	953,743.1	77
Total	1,024.1	< 1	0.0	0	5,583.3	< 1	5,124.9	< 1	1,015.1	< 1	953,041.5	77	1,238,942.2	100

Common Name: YELLOW-THROATED VIREO
Scientific Name: VIREO FLAVIFRONS

ITIS TSN: 179009
NS EICode: ABPBW01170

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,832.2	< 1	40,104.8	1	0.0	0	10,366.4	< 1	343.9	< 1	6,476.8	< 1
Status 2	22,249.2	< 1	0.0	0	6,797.1	< 1	0.0	0	12,467.3	< 1	1,052.3	< 1	26,474.3	< 1
Status 3	0.0	0	216,731.3	6	117.5	< 1	16,812.1	< 1	27.8	< 1	1,796.9	< 1	4,474.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	688.9	< 1	33.8	< 1	0.0	0	188.3	< 1
Total	22,249.2	< 1	225,563.5	6	47,019.4	1	17,501.0	< 1	22,895.4	< 1	3,193.1	< 1	37,614.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,294.4	< 1	3.5	< 1	2,249.9	< 1	36.6	< 1	0.0	0	69,708.4	2
Status 2	527.7	< 1	6.5	< 1	3,262.9	< 1	2,160.0	< 1	0.0	0	109.4	< 1	75,106.6	2
Status 3	4,722.8	< 1	0.0	0	764.6	< 1	9,754.4	< 1	718.8	< 1	0.0	0	255,921.1	7
Status 4	0.0	0	0.0	0	20.1	< 1	501.6	< 1	642.9	< 1	3,349,688.5	89	3,351,764.0	89
Total	5,250.5	< 1	1,300.9	< 1	4,051.1	< 1	14,665.9	< 1	1,398.3	< 1	3,349,797.9	89	3,752,500.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WARBLING VIREO
Scientific Name: VIREO GILVUS

ITIS TSN: 179023
NS EICode: ABPBW01210

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	4,444.4	1	0.0	0	80.0	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	3,270.3	1	0.0	0	305.1	< 1	16.6	< 1	536.9	< 1
Status 3	0.0	0	49,832.6	16	0.0	0	0.0	0	0.0	0	21.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	49,832.6	16	7,714.7	3	0.0	0	385.1	< 1	37.5	< 1	536.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	594.8	< 1	0.0	0	0.0	0	5,119.2	2
Status 2	0.0	0	0.0	0	2,929.6	< 1	137.3	< 1	0.0	0	0.0	0	7,195.7	2
Status 3	308.7	< 1	0.0	0	0.0	0	1,125.9	< 1	0.0	0	0.0	0	51,288.1	17
Status 4	0.0	0	0.0	0	0.0	0	148.6	< 1	24.3	< 1	241,216.1	79	241,389.0	79
Total	308.7	< 1	0.0	0	2,929.6	< 1	2,006.6	< 1	24.3	< 1	241,216.1	79	304,992.0	100

Common Name: RED-EYED VIREO
Scientific Name: VIREO OLIVACEUS

ITIS TSN: 179021
NS EICode: ABPBW01240

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.4	< 1	24,036.1	< 1	92,459.3	1	0.0	0	20,740.9	< 1	698.7	< 1	8,424.8	< 1
Status 2	53,073.8	< 1	0.0	0	14,746.0	< 1	0.0	0	20,574.5	< 1	1,351.1	< 1	46,298.3	< 1
Status 3	0.0	0	382,817.1	6	1,002.8	< 1	32,750.7	< 1	33.3	< 1	6,678.9	< 1	7,784.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	948.2	< 1	44.0	< 1	0.0	0	248.9	< 1
Total	53,078.2	< 1	406,853.2	6	108,208.1	2	33,699.0	< 1	41,392.6	< 1	8,728.7	< 1	62,756.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,696.9	< 1	8.3	< 1	4,234.3	< 1	117.7	< 1	0.0	0	156,421.4	2
Status 2	625.8	< 1	8.6	< 1	8,464.2	< 1	4,719.3	< 1	0.0	0	281.9	< 1	150,143.4	2
Status 3	5,976.7	< 1	0.0	0	1,418.9	< 1	12,667.9	< 1	1,702.9	< 1	0.0	0	452,833.3	7
Status 4	0.0	0	0.0	0	37.5	< 1	687.4	< 1	935.4	< 1	5,567,162.7	88	5,570,064.2	88
Total	6,602.5	< 1	5,705.5	< 1	9,929.0	< 1	22,308.9	< 1	2,756.0	< 1	5,567,444.6	88	6,329,462.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLUE-WINGED WARBLER

Scientific Name: VERMIVORA PINUS

ITIS TSN: 178853

NS EICode: ABPBX01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	13.7	< 1	358.9	< 1	0.0	0	125.9	< 1	0.0	0	14.0	< 1
Status 2	0.0	0	0.0	0	145.4	< 1	0.0	0	172.1	< 1	0.0	0	50.9	< 1
Status 3	0.0	0	3,459.1	4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	91.4	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,472.7	4	504.3	< 1	91.4	< 1	298.0	< 1	0.0	0	64.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1.0	< 1	0.0	0	0.0	0	513.5	< 1
Status 2	0.0	0	0.0	0	5.6	< 1	13.0	< 1	0.0	0	0.0	0	386.9	< 1
Status 3	17.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,476.3	4
Status 4	0.0	0	0.0	0	0.0	0	11.3	< 1	0.0	0	84,873.1	95	84,975.7	95
Total	17.2	< 1	0.0	0	5.6	< 1	25.2	< 1	0.0	0	84,873.1	95	89,352.3	100

Common Name: GOLDEN-WINGED WARBLER

Scientific Name: VERMIVORA CHRYSOPTERA

ITIS TSN: 178852

NS EICode: ABPBX01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	415.4	< 1	1,891.7	< 1	0.0	0	293.1	< 1	0.0	0	56.3	< 1
Status 2	0.0	0	0.0	0	2,323.3	< 1	0.0	0	319.0	< 1	2.4	< 1	373.4	< 1
Status 3	0.0	0	14,578.1	4	31.8	< 1	18.7	< 1	0.0	0	2.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	63.6	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	14,993.5	4	4,246.7	1	82.4	< 1	612.1	< 1	4.7	< 1	429.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	60.2	< 1	0.5	< 1	0.0	0	2,717.1	< 1
Status 2	77.3	< 1	0.0	0	147.4	< 1	116.1	< 1	0.0	0	0.0	0	3,358.8	< 1
Status 3	281.1	< 1	0.0	0	0.0	0	20.5	< 1	0.0	0	0.0	0	14,932.4	4
Status 4	0.0	0	0.0	0	0.0	0	32.2	< 1	46.6	< 1	330,401.2	94	330,543.6	94
Total	358.3	< 1	0.0	0	147.4	< 1	229.1	< 1	47.1	< 1	330,401.2	94	351,552.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN PARULA
Scientific Name: PARULA AMERICANA

ITIS TSN: 178868
NS EICode: ABPBX02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	< 1	15,503.3	< 1	52,442.4	2	0.0	0	10,508.9	< 1	698.7	< 1	6,696.8	< 1
Status 2	49,928.6	2	0.0	0	8,341.2	< 1	0.0	0	5,627.3	< 1	869.0	< 1	22,492.5	1
Status 3	0.0	0	161,648.8	8	35.8	< 1	18,249.5	< 1	21.4	< 1	4,427.8	< 1	2,830.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	493.4	< 1	13.7	< 1	0.0	0	147.8	< 1
Total	49,929.9	2	177,152.1	8	60,819.4	3	18,742.9	< 1	16,171.3	< 1	5,995.5	< 1	32,167.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,065.7	< 1	2.3	< 1	2,960.2	< 1	37.4	< 1	0.0	0	93,917.1	4
Status 2	183.9	< 1	6.5	< 1	4,860.4	< 1	3,752.6	< 1	0.0	0	279.8	< 1	96,341.8	5
Status 3	3,511.4	< 1	0.0	0	301.0	< 1	11,427.4	< 1	182.0	< 1	0.0	0	202,635.1	10
Status 4	0.0	0	0.0	0	20.5	< 1	199.2	< 1	412.5	< 1	1,735,189.7	81	1,736,476.7	82
Total	3,695.2	< 1	5,072.1	< 1	5,184.2	< 1	18,339.4	< 1	631.9	< 1	1,735,469.5	82	2,129,370.6	100

Common Name: YELLOW WARBLER
Scientific Name: DENDROICA PETECHIA

ITIS TSN: 178878
NS EICode: ABPBX03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.1	< 1	155.0	< 1	781.6	< 1	0.0	0	199.5	< 1	23.3	< 1	143.5	< 1
Status 2	2,757.2	< 1	0.0	0	402.1	< 1	0.0	0	476.3	< 1	53.1	< 1	1,271.8	< 1
Status 3	0.0	0	5,362.0	< 1	845.8	< 1	805.4	< 1	4.8	< 1	29.8	< 1	655.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,233.5	< 1	1.3	< 1	0.0	0	61.5	< 1
Total	2,761.2	< 1	5,517.0	< 1	2,029.5	< 1	2,039.0	< 1	681.8	< 1	106.2	< 1	2,131.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	349.8	< 1	3.6	< 1	134.8	< 1	0.0	0	0.0	0	1,795.1	< 1
Status 2	10.4	< 1	0.0	0	245.0	< 1	179.4	< 1	0.0	0	13.6	< 1	5,408.8	< 1
Status 3	76.9	< 1	0.0	0	175.4	< 1	264.4	< 1	307.8	< 1	0.0	0	8,527.5	2
Status 4	0.0	0	0.0	0	0.0	0	20.7	< 1	31.6	< 1	536,296.9	97	537,645.4	97
Total	87.2	< 1	349.8	< 1	424.0	< 1	599.3	< 1	339.4	< 1	536,310.5	97	553,376.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CHESTNUT-SIDED WARBLER
Scientific Name: *DENDROICA PENNSYLVANICA*

ITIS TSN: 178911
NS EICode: ABPBX03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	18,729.8	3	71,599.2	11	0.0	0	653.7	< 1	0.0	0	81.6	< 1
Status 2	0.0	0	0.0	0	11,119.9	2	0.0	0	1,104.9	< 1	6.2	< 1	2,603.9	< 1
Status 3	0.0	0	169,905.0	27	21.7	< 1	0.0	0	0.0	0	61.0	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	188,634.8	30	82,740.8	13	0.0	0	1,758.6	< 1	67.2	< 1	2,685.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,806.7	< 1	0.2	< 1	0.0	0	92,871.2	15
Status 2	143.6	< 1	0.0	0	5,218.1	< 1	621.7	< 1	0.0	0	0.0	0	20,818.3	3
Status 3	403.6	< 1	0.0	0	0.0	0	3,266.6	< 1	0.0	0	0.0	0	173,657.9	28
Status 4	0.0	0	0.0	0	0.0	0	139.1	< 1	7.7	< 1	341,290.0	54	341,436.8	54
Total	547.2	< 1	0.0	0	5,218.1	< 1	5,834.2	< 1	7.8	< 1	341,290.0	54	628,784.2	100

Common Name: BLACK-THROATED BLUE WARBLER
Scientific Name: *DENDROICA CAERULESCENS*

ITIS TSN: 178888
NS EICode: ABPBX03050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	18,384.8	3	69,688.4	12	0.0	0	471.6	< 1	0.0	0	17.3	< 1
Status 2	0.0	0	0.0	0	11,367.0	2	0.0	0	893.4	< 1	8.1	< 1	2,214.6	< 1
Status 3	0.0	0	162,446.0	29	5.9	< 1	0.0	0	0.0	0	63.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	180,830.9	32	81,061.4	14	0.0	0	1,365.0	< 1	71.2	< 1	2,231.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,811.3	< 1	0.0	0	0.0	0	90,373.4	16
Status 2	210.4	< 1	0.0	0	5,347.4	< 1	654.5	< 1	0.0	0	0.0	0	20,695.4	4
Status 3	508.3	< 1	0.0	0	0.0	0	3,307.4	< 1	0.0	0	0.0	0	166,330.8	30
Status 4	0.0	0	0.0	0	0.0	0	118.0	< 1	8.6	< 1	284,861.3	51	284,987.8	51
Total	718.7	< 1	0.0	0	5,347.4	< 1	5,891.1	1	8.6	< 1	284,861.3	51	562,387.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK-THROATED GREEN WARBLER
Scientific Name: *DENDROICA VIRENS*

ITIS TSN: 178898
NS EICode: ABPBX03100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.6	< 1	14,868.3	1	15,465.3	1	0.0	0	8,396.1	< 1	904.5	< 1	6,293.1	< 1
Status 2	102,170.0	7	0.0	0	3,296.8	< 1	0.0	0	3,812.4	< 1	51.9	< 1	50,388.1	3
Status 3	0.0	0	62,870.2	4	443.5	< 1	39,808.9	3	0.0	0	19,600.8	1	21.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	20.3	< 1	0.2	< 1	0.0	0	0.0	0
Total	102,171.6	7	77,738.5	5	19,205.6	1	39,829.1	3	12,208.7	< 1	20,557.3	1	56,702.3	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,512.8	< 1	0.0	0	6,956.9	< 1	57.5	< 1	0.0	0	60,456.2	4
Status 2	133.1	< 1	14.0	< 1	713.1	< 1	3,989.2	< 1	0.0	0	302.9	< 1	164,871.4	11
Status 3	7,634.9	< 1	0.0	0	0.0	0	10,159.6	< 1	241.2	< 1	0.0	0	140,780.2	10
Status 4	0.0	0	0.0	0	41.0	< 1	48.3	< 1	317.6	< 1	1,112,748.9	75	1,113,176.3	75
Total	7,768.0	< 1	7,526.8	< 1	754.1	< 1	21,154.0	1	616.3	< 1	1,113,051.8	75	1,479,284.0	100

Common Name: BLACKBURNIAN WARBLER
Scientific Name: *DENDROICA FUSCA*

ITIS TSN: 178904
NS EICode: ABPBX03120

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	17,427.7	3	69,467.1	11	0.0	0	982.7	< 1	0.0	0	266.2	< 1
Status 2	0.0	0	0.0	0	10,130.5	2	0.0	0	1,293.8	< 1	6.4	< 1	2,895.9	< 1
Status 3	0.0	0	172,638.5	28	20.3	< 1	0.0	0	0.0	0	60.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	22.6	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	190,066.2	31	79,618.0	13	22.6	< 1	2,276.6	< 1	66.6	< 1	3,162.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,654.3	< 1	1.1	< 1	0.0	0	89,799.1	15
Status 2	170.9	< 1	0.0	0	5,034.7	< 1	639.2	< 1	0.0	0	0.0	0	20,171.4	3
Status 3	480.2	< 1	0.0	0	0.0	0	2,861.1	< 1	0.0	0	0.0	0	176,060.3	29
Status 4	0.0	0	0.0	0	0.0	0	125.6	< 1	7.7	< 1	331,372.6	54	331,528.5	54
Total	651.1	< 1	0.0	0	5,034.7	< 1	5,280.2	< 1	8.7	< 1	331,372.6	54	617,559.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: YELLOW-THROATED WARBLER
Scientific Name: *DENDROICA DOMINICA*

ITIS TSN: 178905
NS EICode: ABPBX03130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.7	< 1	12,296.0	< 1	311.1	< 1	0.0	0	10,655.2	< 1	904.5	< 1	6,288.3	< 1
Status 2	103,970.3	7	0.0	0	153.7	< 1	0.0	0	4,535.4	< 1	806.7	< 1	52,219.4	3
Status 3	0.0	0	37,413.8	2	24.2	< 1	44,725.1	3	21.4	< 1	19,505.3	1	3,948.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	389.1	< 1	8.1	< 1	0.0	0	196.0	< 1
Total	103,975.0	7	49,709.8	3	489.1	< 1	45,114.2	3	15,220.1	< 1	21,216.5	1	62,652.6	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,549.1	< 1	0.6	< 1	6,607.5	< 1	56.3	< 1	0.0	0	44,673.4	3
Status 2	0.0	0	16.0	< 1	272.3	< 1	3,972.3	< 1	0.0	0	302.9	< 1	166,249.0	11
Status 3	6,933.0	< 1	0.0	0	160.1	< 1	9,427.1	< 1	39.8	< 1	0.0	0	122,198.9	8
Status 4	0.0	0	0.0	0	29.7	< 1	47.8	< 1	347.9	< 1	1,209,741.8	78	1,210,760.5	78
Total	6,933.0	< 1	7,565.1	< 1	462.8	< 1	20,054.8	1	444.1	< 1	1,210,044.7	78	1,543,881.7	100

Common Name: PINE WARBLER
Scientific Name: *DENDROICA PINUS*

ITIS TSN: 178914
NS EICode: ABPBX03170

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.5	< 1	14,860.5	< 1	3,778.6	< 1	0.0	0	11,989.0	< 1	477.8	< 1	2,119.7	< 1
Status 2	83,932.0	2	0.0	0	1,014.6	< 1	0.0	0	11,682.4	< 1	295.7	< 1	58,778.6	2
Status 3	0.0	0	88,535.8	2	1,067.2	< 1	115,398.6	3	7.8	< 1	29,426.2	< 1	25,663.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	244.2	< 1	4.0	< 1	0.0	0	964.9	< 1
Total	83,936.5	2	103,396.3	3	5,860.4	< 1	115,642.8	3	23,683.1	< 1	30,199.7	< 1	87,527.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,113.7	< 1	5.8	< 1	6,463.2	< 1	97.3	< 1	0.0	0	45,910.0	1
Status 2	136.1	< 1	17.7	< 1	936.1	< 1	3,966.0	< 1	0.0	0	197.5	< 1	160,956.6	4
Status 3	11,630.3	< 1	0.0	0	1,072.3	< 1	2,038.5	< 1	1,364.9	< 1	0.0	0	276,205.6	7
Status 4	0.0	0	0.0	0	58.9	< 1	138.7	< 1	263.3	< 1	3,230,119.9	87	3,231,793.8	87
Total	11,766.4	< 1	6,131.4	< 1	2,073.0	< 1	12,606.4	< 1	1,725.6	< 1	3,230,317.4	87	3,714,866.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PRAIRIE WARBLER
Scientific Name: *DENDROICA DISCOLOR*

ITIS TSN: 178918
NS EICode: ABPBX03190

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	2,085.8	< 1	4,169.2	< 1	0.0	0	1,294.4	< 1	0.9	< 1	243.5	< 1
Status 2	6,157.4	< 1	0.0	0	2,932.6	< 1	0.0	0	2,327.9	< 1	180.9	< 1	5,104.0	< 1
Status 3	0.0	0	26,258.0	< 1	376.7	< 1	52,998.1	2	16.9	< 1	4,508.3	< 1	17,766.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	349.9	< 1	4.9	< 1	0.0	0	647.5	< 1
Total	6,162.5	< 1	28,343.8	< 1	7,478.4	< 1	53,348.0	2	3,644.0	< 1	4,690.1	< 1	23,761.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	326.2	< 1	3.5	< 1	841.4	< 1	92.3	< 1	0.0	0	9,062.2	< 1
Status 2	71.7	< 1	6.6	< 1	672.6	< 1	660.2	< 1	0.0	0	20.1	< 1	18,133.8	< 1
Status 3	4,053.2	< 1	0.0	0	507.5	< 1	1,450.7	< 1	860.7	< 1	0.0	0	108,796.9	4
Status 4	0.0	0	0.0	0	56.7	< 1	69.6	< 1	233.9	< 1	2,880,191.7	95	2,881,554.1	95
Total	4,125.0	< 1	332.7	< 1	1,240.3	< 1	3,021.9	< 1	1,186.8	< 1	2,880,211.8	95	3,017,547.0	100

Common Name: CERULEAN WARBLER
Scientific Name: *DENDROICA CERULEA*

ITIS TSN: 178903
NS EICode: ABPBX03240

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	20,416.4	1	86,400.0	5	0.0	0	4,602.3	< 1	0.0	0	4,367.0	< 1
Status 2	6,626.0	< 1	0.0	0	12,348.4	< 1	0.0	0	3,921.1	< 1	799.2	< 1	12,486.7	< 1
Status 3	0.0	0	310,061.2	19	52.8	< 1	136.6	< 1	21.4	< 1	57.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	26.8	< 1	0.0	0	0.0	0	82.6	< 1
Total	6,626.0	< 1	330,477.6	20	98,801.2	6	163.4	< 1	8,544.9	< 1	856.6	< 1	16,936.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	2,265.2	< 1	0.0	0	0.0	0	118,050.9	7
Status 2	441.7	< 1	0.0	0	6,515.8	< 1	841.0	< 1	0.0	0	0.0	0	43,979.8	3
Status 3	1,796.5	< 1	0.0	0	0.0	0	10,572.0	< 1	< 0.1	< 1	0.0	0	322,698.1	20
Status 4	0.0	0	0.0	0	0.0	0	482.7	< 1	336.7	< 1	1,139,961.0	70	1,140,889.8	70
Total	2,238.2	< 1	0.0	0	6,515.8	< 1	14,160.9	< 1	336.8	< 1	1,139,961.0	70	1,625,618.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK-AND-WHITE WARBLER
Scientific Name: *MNIOTILTA VARIA*

ITIS TSN: 178844
NS EICode: ABPBX05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.4	< 1	25,029.5	< 1	93,214.1	2	0.0	0	17,038.8	< 1	698.7	< 1	8,363.4	< 1
Status 2	52,374.6	< 1	0.0	0	15,027.3	< 1	0.0	0	15,960.9	< 1	1,253.9	< 1	37,865.4	< 1
Status 3	0.0	0	375,860.2	7	244.7	< 1	27,616.9	< 1	32.0	< 1	6,362.4	< 1	5,862.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	819.7	< 1	36.0	< 1	0.0	0	219.0	< 1
Total	52,379.0	< 1	400,889.7	8	108,486.1	2	28,436.6	< 1	33,067.7	< 1	8,314.9	< 1	52,310.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,486.9	< 1	6.4	< 1	4,066.2	< 1	116.8	< 1	0.0	0	154,025.3	3
Status 2	589.9	< 1	8.6	< 1	8,152.4	< 1	4,569.2	< 1	0.0	0	281.9	< 1	136,084.0	3
Status 3	5,592.2	< 1	0.0	0	926.6	< 1	12,739.1	< 1	919.4	< 1	0.0	0	436,155.8	8
Status 4	0.0	0	0.0	0	29.5	< 1	631.5	< 1	798.8	< 1	4,523,009.1	86	4,525,543.7	86
Total	6,182.0	< 1	5,495.5	< 1	9,114.8	< 1	22,006.0	< 1	1,835.0	< 1	4,523,291.0	86	5,251,808.8	100

Common Name: AMERICAN REDSTART
Scientific Name: *SETOPHAGA RUTICILLA*

ITIS TSN: 178979
NS EICode: ABPBX06010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.7	< 1	3,867.9	< 1	17,351.0	< 1	0.0	0	10,210.3	< 1	698.7	< 1	6,450.7	< 1
Status 2	49,944.3	3	0.0	0	2,420.4	< 1	0.0	0	5,271.9	< 1	907.1	< 1	20,669.0	1
Status 3	0.0	0	74,340.1	4	24.9	< 1	20,969.4	1	21.8	< 1	5,334.7	< 1	3,086.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,605.3	< 1	14.6	< 1	0.0	0	151.1	< 1
Total	49,945.1	3	78,208.0	4	19,796.3	< 1	22,574.7	1	15,518.6	< 1	6,940.4	< 1	30,357.0	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,126.1	< 1	4.7	< 1	1,932.5	< 1	85.5	< 1	0.0	0	45,728.1	2
Status 2	115.5	< 1	0.5	< 1	1,686.0	< 1	3,497.8	< 1	0.0	0	281.2	< 1	84,793.7	4
Status 3	3,073.2	< 1	0.0	0	361.4	< 1	9,753.4	< 1	292.6	< 1	0.0	0	117,257.6	6
Status 4	0.0	0	0.0	0	23.2	< 1	118.4	< 1	456.1	< 1	1,737,753.8	87	1,740,122.6	88
Total	3,188.7	< 1	5,126.7	< 1	2,075.2	< 1	15,302.1	< 1	834.2	< 1	1,738,035.0	87	1,987,902.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PROTHONOTARY WARBLER
Scientific Name: PROTONOTARIA CITREA

ITIS TSN: 178846
NS EICode: ABPBX07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	< 1	473.3	< 1	0.0	0	0.0	0	7,451.0	< 1	689.9	< 1	5,583.7	< 1
Status 2	45,732.2	4	0.0	0	20.5	< 1	0.0	0	3,271.5	< 1	802.6	< 1	17,462.0	1
Status 3	0.0	0	8,216.7	< 1	15.7	< 1	16,986.8	1	21.4	< 1	4,106.0	< 1	2,844.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,525.6	< 1	12.4	< 1	0.0	0	122.0	< 1
Total	45,733.5	4	8,690.0	< 1	36.2	< 1	18,512.4	2	10,756.4	< 1	5,598.5	< 1	26,012.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,859.1	< 1	4.6	< 1	1,532.8	< 1	36.3	< 1	0.0	0	20,632.0	2
Status 2	0.0	0	6.5	< 1	427.5	< 1	3,118.5	< 1	0.0	0	280.2	< 1	71,121.4	6
Status 3	2,006.9	< 1	0.0	0	309.6	< 1	9,078.6	< 1	112.2	< 1	0.0	0	43,698.3	4
Status 4	0.0	0	0.0	0	20.1	< 1	46.4	< 1	372.2	< 1	1,047,715.3	88	1,049,813.9	89
Total	2,006.9	< 1	4,865.6	< 1	761.8	< 1	13,776.3	1	520.7	< 1	1,047,995.5	88	1,185,265.6	100

Common Name: WORM-EATING WARBLER
Scientific Name: HELMITHEROS VERMIVORUS

ITIS TSN: 178850
NS EICode: ABPBX08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.1	< 1	6,499.3	< 1	30,436.9	3	0.0	0	2,701.1	< 1	126.6	< 1	4,407.4	< 1
Status 2	13,424.6	1	0.0	0	5,350.7	< 1	0.0	0	3,121.2	< 1	690.3	< 1	11,821.6	1
Status 3	0.0	0	115,788.9	11	22.6	< 1	7,099.6	< 1	21.4	< 1	904.9	< 1	1,451.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	389.9	< 1	0.0	0	0.0	0	79.1	< 1
Total	13,427.6	1	122,288.1	12	35,810.2	3	7,489.4	< 1	5,843.7	< 1	1,721.8	< 1	17,759.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	885.2	< 1	0.5	< 1	1,333.7	< 1	35.6	< 1	0.0	0	46,429.4	4
Status 2	118.9	< 1	8.6	< 1	2,247.2	< 1	1,359.5	< 1	0.0	0	40.6	< 1	38,183.0	4
Status 3	2,122.6	< 1	0.0	0	138.7	< 1	7,572.2	< 1	37.3	< 1	0.0	0	135,159.8	13
Status 4	0.0	0	0.0	0	9.3	< 1	97.6	< 1	253.1	< 1	817,107.5	79	817,936.4	79
Total	2,241.4	< 1	893.8	< 1	2,395.6	< 1	10,363.0	< 1	326.0	< 1	817,148.1	79	1,037,708.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SWAINSON'S WARBLER

Scientific Name: LIMNOTHLYPIS SWAINSONII

ITIS TSN: 178848

NS EICode: ABPBX09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.6	< 1	13,331.4	< 1	5,798.7	< 1	0.0	0	9,376.5	< 1	584.5	< 1	2,990.3	< 1
Status 2	91,608.4	5	0.0	0	966.2	< 1	0.0	0	4,485.2	< 1	691.2	< 1	48,683.0	3
Status 3	0.0	0	62,736.8	4	31.8	< 1	41,681.9	2	19.4	< 1	19,107.7	1	3,912.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	488.1	< 1	0.0	0	0.0	0	177.2	< 1
Total	91,610.0	5	76,068.3	5	6,796.6	< 1	42,170.0	3	13,881.0	< 1	20,383.4	1	55,762.8	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,635.6	< 1	2.3	< 1	6,005.2	< 1	47.6	< 1	0.0	0	44,773.7	3
Status 2	105.1	< 1	12.4	< 1	428.6	< 1	3,264.6	< 1	0.0	0	226.0	< 1	150,470.6	9
Status 3	7,234.1	< 1	0.0	0	214.7	< 1	1,498.6	< 1	31.5	< 1	0.0	0	136,468.7	8
Status 4	0.0	0	0.0	0	29.1	< 1	92.3	< 1	337.0	< 1	1,350,071.6	80	1,351,195.3	80
Total	7,339.2	< 1	6,648.0	< 1	674.6	< 1	10,860.7	< 1	416.1	< 1	1,350,297.6	80	1,682,908.3	100

Common Name: OVENBIRD

Scientific Name: SEIURUS AUROCAPILLUS

ITIS TSN: 178927

NS EICode: ABPBX10010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.1	< 1	22,578.8	< 1	90,902.3	2	0.0	0	10,999.5	< 1	15.0	< 1	2,490.8	< 1
Status 2	8,936.7	< 1	0.0	0	13,579.8	< 1	0.0	0	16,763.1	< 1	1,014.2	< 1	31,255.3	< 1
Status 3	0.0	0	360,534.2	8	133.1	< 1	15,747.5	< 1	29.6	< 1	1,691.7	< 1	6,814.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	849.4	< 1	37.6	< 1	0.0	0	151.9	< 1
Total	8,939.8	< 1	383,113.0	8	104,615.3	2	16,596.9	< 1	27,829.9	< 1	2,721.0	< 1	40,712.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	455.0	< 1	8.1	< 1	2,810.1	< 1	25.7	< 1	0.0	0	130,288.3	3
Status 2	567.5	< 1	7.0	< 1	8,069.4	< 1	2,093.0	< 1	0.0	0	33.0	< 1	82,319.1	2
Status 3	4,261.8	< 1	0.0	0	1,199.6	< 1	3,976.7	< 1	1,191.7	< 1	0.0	0	395,580.9	8
Status 4	0.0	0	0.0	0	12.2	< 1	641.3	< 1	776.3	< 1	4,144,348.4	87	4,146,817.2	87
Total	4,829.3	< 1	462.0	< 1	9,289.4	< 1	9,521.1	< 1	1,993.6	< 1	4,144,381.5	87	4,755,005.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LOUISIANA WATERTHRUSH
Scientific Name: SEIURUS MOTACILLA

ITIS TSN: 178935
NS EICode: ABPBX10030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,678.3	< 1	12,667.3	1	0.0	0	1,942.7	< 1	8.1	< 1	921.5	< 1
Status 2	4,640.7	< 1	0.0	0	1,632.7	< 1	0.0	0	3,403.4	< 1	345.4	< 1	6,747.6	< 1
Status 3	0.0	0	55,104.7	6	22.9	< 1	4,659.3	< 1	17.2	< 1	292.7	< 1	2,219.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	537.0	< 1	12.5	< 1	0.0	0	94.5	< 1
Total	4,640.7	< 1	57,783.0	6	14,322.9	1	5,196.3	< 1	5,375.9	< 1	646.2	< 1	9,983.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	359.6	< 1	4.8	< 1	439.8	< 1	18.7	< 1	0.0	0	19,040.9	2
Status 2	98.1	< 1	0.0	0	1,168.9	< 1	532.1	< 1	0.0	0	21.7	< 1	18,590.6	2
Status 3	738.4	< 1	0.0	0	391.9	< 1	959.2	< 1	198.2	< 1	0.0	0	64,604.2	6
Status 4	0.0	0	0.0	0	1.2	< 1	96.7	< 1	90.6	< 1	895,860.8	90	896,693.3	90
Total	836.4	< 1	359.6	< 1	1,566.7	< 1	2,027.8	< 1	307.5	< 1	895,882.5	90	998,928.9	100

Common Name: KENTUCKY WARBLER
Scientific Name: OPORORNIS FORMOSUS

ITIS TSN: 178937
NS EICode: ABPBX11010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.4	< 1	2,428.6	< 1	8,990.6	< 1	0.0	0	10,133.8	< 1	698.7	< 1	6,453.7	< 1
Status 2	49,976.7	3	0.0	0	2,022.4	< 1	0.0	0	5,350.1	< 1	836.7	< 1	20,242.4	1
Status 3	0.0	0	52,890.0	3	37.4	< 1	19,396.7	1	21.4	< 1	4,270.3	< 1	2,787.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	493.4	< 1	13.7	< 1	0.0	0	128.8	< 1
Total	49,978.1	3	55,318.6	3	11,050.4	< 1	19,890.1	1	15,519.1	< 1	5,805.7	< 1	29,612.3	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,120.0	< 1	2.3	< 1	1,750.1	< 1	37.4	< 1	0.0	0	35,616.6	2
Status 2	171.5	< 1	6.5	< 1	832.8	< 1	3,314.3	< 1	0.0	0	280.2	< 1	83,033.5	5
Status 3	3,168.3	< 1	0.0	0	289.5	< 1	9,346.2	< 1	147.7	< 1	0.0	0	92,354.9	6
Status 4	0.0	0	0.0	0	19.3	< 1	104.8	< 1	431.8	< 1	1,371,074.2	87	1,372,265.9	87
Total	3,339.7	< 1	5,126.5	< 1	1,143.9	< 1	14,515.3	< 1	617.0	< 1	1,371,354.4	87	1,583,270.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON YELLOWTHROAT
Scientific Name: GEOTHYLPIS TRICHAS

ITIS TSN: 178944
NS EICode: ABPBX12010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,821.4	< 1	16,385.3	< 1	15,723.3	< 1	0.0	0	13,926.3	< 1	910.8	< 1	7,360.9	< 1
Status 2	126,861.1	4	0.0	0	5,814.9	< 1	0.0	0	10,274.4	< 1	1,081.8	< 1	68,334.7	2
Status 3	0.0	0	110,108.3	3	2,786.6	< 1	82,083.2	2	30.2	< 1	25,251.3	< 1	9,979.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,811.7	< 1	22.6	< 1	0.0	0	400.8	< 1
Total	128,682.5	4	126,493.7	4	24,324.8	< 1	84,894.8	2	24,253.6	< 1	27,243.9	< 1	86,075.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,793.3	< 1	10.4	< 1	8,457.8	< 1	77.4	< 1	0.0	0	73,466.9	2
Status 2	209.4	< 1	163.3	< 1	1,868.5	< 1	5,887.7	< 1	0.0	0	320.0	< 1	220,815.8	6
Status 3	9,749.9	< 1	0.0	0	857.2	< 1	11,344.5	< 1	613.2	< 1	0.0	0	252,803.7	7
Status 4	0.0	0	0.0	0	58.2	< 1	222.0	< 1	536.8	< 1	2,967,889.2	84	2,971,941.3	84
Total	9,959.3	< 1	8,956.5	< 1	2,794.3	< 1	25,912.0	< 1	1,227.3	< 1	2,968,209.3	84	3,519,027.7	100

Common Name: HOODED WARBLER
Scientific Name: WILSONIA CITRINA

ITIS TSN: 178972
NS EICode: ABPBX16010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.4	< 1	14,588.5	< 1	61,786.8	1	0.0	0	16,632.5	< 1	698.7	< 1	8,217.2	< 1
Status 2	52,126.3	1	0.0	0	11,163.2	< 1	0.0	0	15,727.8	< 1	1,181.7	< 1	36,282.5	< 1
Status 3	0.0	0	308,407.4	7	814.4	< 1	26,193.9	< 1	31.7	< 1	4,889.9	< 1	5,798.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	760.9	< 1	35.1	< 1	0.0	0	196.6	< 1
Total	52,130.7	1	322,995.9	7	73,764.4	2	26,954.7	< 1	32,427.1	< 1	6,770.3	< 1	50,495.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,685.8	< 1	6.4	< 1	2,951.5	< 1	37.4	< 1	0.0	0	110,609.1	2
Status 2	623.0	< 1	8.6	< 1	5,147.2	< 1	4,353.3	< 1	0.0	0	280.9	< 1	126,894.3	3
Status 3	5,543.3	< 1	0.0	0	904.5	< 1	10,787.6	< 1	697.6	< 1	0.0	0	364,069.1	8
Status 4	0.0	0	0.0	0	23.3	< 1	545.9	< 1	769.4	< 1	4,032,494.6	87	4,034,825.8	87
Total	6,166.3	< 1	5,694.3	< 1	6,081.4	< 1	18,638.3	< 1	1,504.4	< 1	4,032,775.5	87	4,636,398.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CANADA WARBLER
Scientific Name: WILSONIA CANADENSIS

ITIS TSN: 178977
NS EICode: ABPBX16030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,253.1	4	56,533.1	14	0.0	0	230.6	<1	0.0	0	1.8	<1
Status 2	0.0	0	0.0	0	8,582.1	2	0.0	0	641.7	<1	6.1	<1	1,725.4	<1
Status 3	0.0	0	119,024.4	30	0.0	0	0.0	0	0.0	0	43.4	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	134,277.5	34	65,115.3	16	0.0	0	872.3	<1	49.5	<1	1,727.2	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,435.1	<1	0.0	0	0.0	0	73,453.8	19
Status 2	21.2	<1	0.0	0	4,628.2	1	505.6	<1	0.0	0	0.0	0	16,110.4	4
Status 3	7.1	<1	0.0	0	0.0	0	2,977.1	<1	0.0	0	0.0	0	122,052.0	31
Status 4	0.0	0	0.0	0	0.0	0	89.1	<1	3.6	<1	184,568.3	47	184,661.0	47
Total	28.4	<1	0.0	0	4,628.2	1	5,007.0	1	3.6	<1	184,568.3	47	396,277.1	100

Common Name: YELLOW-BREASTED CHAT
Scientific Name: ICTERIA VIRENS

ITIS TSN: 178964
NS EICode: ABPBX24010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.2	<1	14,560.7	<1	5,137.8	<1	0.0	0	2,704.4	<1	212.0	<1	381.9	<1
Status 2	56,885.3	2	0.0	0	4,403.3	<1	0.0	0	3,502.1	<1	167.8	<1	41,848.5	1
Status 3	0.0	0	61,912.6	2	1,632.1	<1	105,655.7	3	11.6	<1	22,187.0	<1	22,400.7	<1
Status 4	0.0	0	0.0	0	0.0	0	1,501.0	<1	3.9	<1	0.0	0	884.9	<1
Total	56,890.5	2	76,473.4	2	11,173.2	<1	107,156.7	3	6,222.0	<1	22,566.7	<1	65,516.0	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,524.8	<1	7.1	<1	6,136.8	<1	176.4	<1	0.0	0	31,847.1	<1
Status 2	78.5	<1	23.9	<1	876.2	<1	1,753.7	<1	0.0	0	43.9	<1	109,583.2	3
Status 3	9,800.3	<1	0.0	0	679.3	<1	2,184.9	<1	1,011.8	<1	0.0	0	227,476.0	6
Status 4	0.0	0	0.0	0	76.1	<1	100.7	<1	210.9	<1	3,134,482.5	89	3,137,260.0	89
Total	9,878.8	<1	2,548.6	<1	1,638.8	<1	10,176.2	<1	1,399.1	<1	3,134,526.4	89	3,506,166.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SUMMER TANAGER

Scientific Name: *PIRANGA RUBRA*

ITIS TSN: 179888

NS EICode: ABPBX45030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	17,250.3	< 1	8,545.0	< 1	0.0	0	18,083.1	< 1	580.8	< 1	4,139.7	< 1
Status 2	102,687.8	1	0.0	0	1,968.7	< 1	0.0	0	22,269.8	< 1	1,284.0	< 1	80,756.6	1
Status 3	0.0	0	155,552.9	2	1,652.2	< 1	134,488.2	2	33.9	< 1	33,133.0	< 1	30,114.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	970.9	< 1	44.0	< 1	0.0	0	1,128.0	< 1
Total	102,692.5	1	172,803.2	2	12,165.8	< 1	135,459.1	2	40,430.8	< 1	34,997.8	< 1	116,138.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,417.5	< 1	9.5	< 1	7,534.9	< 1	211.2	< 1	0.0	0	63,776.7	< 1
Status 2	30.3	< 1	22.7	< 1	2,077.7	< 1	5,212.0	< 1	0.0	0	244.2	< 1	216,553.7	3
Status 3	14,212.3	< 1	0.0	0	1,966.1	< 1	3,758.4	< 1	2,785.1	< 1	0.0	0	377,696.4	5
Status 4	0.0	0	0.0	0	85.4	< 1	427.1	< 1	947.4	< 1	6,575,986.9	91	6,579,589.8	91
Total	14,242.6	< 1	7,440.2	< 1	4,138.7	< 1	16,932.4	< 1	3,943.7	< 1	6,576,231.1	91	7,237,616.6	100

Common Name: SCARLET TANAGER

Scientific Name: *PIRANGA OLIVACEA*

ITIS TSN: 179883

NS EICode: ABPBX45040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	22,408.7	< 1	90,903.0	2	0.0	0	16,998.3	< 1	786.6	< 1	8,218.2	< 1
Status 2	25,366.5	< 1	0.0	0	13,509.9	< 1	0.0	0	15,580.5	< 1	1,210.1	< 1	33,089.1	< 1
Status 3	0.0	0	354,476.4	8	132.0	< 1	7,665.7	< 1	32.9	< 1	2,653.9	< 1	5,888.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	740.8	< 1	35.3	< 1	0.0	0	212.4	< 1
Total	25,366.5	< 1	376,885.1	8	104,544.9	2	8,406.5	< 1	32,647.1	< 1	4,650.6	< 1	47,408.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,662.6	< 1	6.4	< 1	3,474.5	< 1	< 0.1	< 1	0.0	0	147,458.3	3
Status 2	567.6	< 1	0.0	0	7,727.7	< 1	4,463.4	< 1	0.0	0	287.5	< 1	101,802.2	2
Status 3	5,354.6	< 1	0.0	0	981.2	< 1	11,351.6	< 1	912.8	< 1	0.0	0	389,449.9	8
Status 4	0.0	0	0.0	0	0.0	0	620.3	< 1	767.1	< 1	4,036,893.4	86	4,039,269.2	86
Total	5,922.2	< 1	4,662.6	< 1	8,715.2	< 1	19,909.8	< 1	1,679.9	< 1	4,037,180.9	86	4,677,979.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN CARDINAL
Scientific Name: *CARDINALIS CARDINALIS*

ITIS TSN: 179124
NS EICode: ABPBX60010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,581.5	< 1	1,643.3	< 1	0.0	0	2,837.3	< 1	212.0	< 1	433.4	< 1
Status 2	57,780.1	1	0.0	0	3,260.9	< 1	0.0	0	3,713.2	< 1	211.0	< 1	42,659.2	< 1
Status 3	0.0	0	58,742.4	1	1,978.8	< 1	109,832.4	3	21.6	< 1	22,489.7	< 1	22,928.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,549.5	< 1	5.4	< 1	0.0	0	956.0	< 1
Total	57,786.8	1	71,323.8	2	6,883.0	< 1	111,381.9	3	6,577.6	< 1	22,912.6	< 1	66,976.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,602.4	< 1	7.1	< 1	6,086.1	< 1	178.8	< 1	0.0	0	26,588.7	< 1
Status 2	79.7	< 1	42.8	< 1	718.1	< 1	1,870.5	< 1	0.0	0	50.7	< 1	110,386.1	3
Status 3	9,951.9	< 1	0.0	0	792.1	< 1	1,859.7	< 1	1,109.3	< 1	0.0	0	229,705.9	5
Status 4	0.0	0	0.0	0	141.4	< 1	117.1	< 1	275.9	< 1	3,992,927.3	92	3,995,972.6	92
Total	10,031.6	< 1	2,645.3	< 1	1,658.7	< 1	9,933.3	< 1	1,564.0	< 1	3,992,978.0	92	4,362,653.3	100

Common Name: ROSE-BREASTED GROSBEAK
Scientific Name: *PHEUCTICUS LUDOVICIANUS*

ITIS TSN: 179139
NS EICode: ABPBX61030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	18,964.1	2	75,703.8	8	0.0	0	1,279.4	< 1	0.0	0	104.3	< 1
Status 2	0.0	0	0.0	0	11,695.8	1	0.0	0	1,211.1	< 1	22.5	< 1	3,283.7	< 1
Status 3	0.0	0	244,044.0	27	24.5	< 1	0.0	0	0.0	0	60.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	263,008.1	29	87,424.0	10	0.0	0	2,490.6	< 1	82.8	< 1	3,388.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,540.2	< 1	0.0	0	0.0	0	97,591.8	11
Status 2	450.7	< 1	0.0	0	6,624.9	< 1	826.3	< 1	0.0	0	0.0	0	24,115.0	3
Status 3	1,147.6	< 1	0.0	0	0.0	0	2,457.3	< 1	0.0	0	0.0	0	247,733.6	27
Status 4	0.0	0	0.0	0	0.0	0	302.6	< 1	38.4	< 1	548,711.1	60	549,052.1	60
Total	1,598.3	< 1	0.0	0	6,624.9	< 1	5,126.3	< 1	38.4	< 1	548,711.1	60	918,492.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLUE GROSBEAK
Scientific Name: *GUIRACA CAERULEA*

ITIS TSN: 179145
NS EICode: ABPBX63010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.7	< 1	12,308.0	< 1	274.2	< 1	0.0	0	2,698.7	< 1	192.8	< 1	426.6	< 1
Status 2	55,032.5	1	0.0	0	1,327.8	< 1	0.0	0	3,407.0	< 1	207.6	< 1	41,919.8	1
Status 3	0.0	0	46,657.1	1	1,597.1	< 1	106,013.3	3	21.5	< 1	22,480.7	< 1	22,881.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,468.5	< 1	5.4	< 1	0.0	0	941.3	< 1
Total	55,039.1	1	58,965.1	1	3,199.1	< 1	107,481.8	3	6,132.6	< 1	22,881.2	< 1	66,169.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,398.4	< 1	7.1	< 1	6,015.0	< 1	178.8	< 1	0.0	0	24,506.4	< 1
Status 2	43.3	< 1	26.2	< 1	641.0	< 1	1,676.8	< 1	0.0	0	44.9	< 1	104,326.9	3
Status 3	9,853.2	< 1	0.0	0	762.7	< 1	1,767.9	< 1	1,086.7	< 1	0.0	0	213,121.6	5
Status 4	0.0	0	0.0	0	91.7	< 1	105.6	< 1	220.8	< 1	3,718,767.2	92	3,721,600.5	92
Total	9,896.5	< 1	2,424.6	< 1	1,502.5	< 1	9,565.2	< 1	1,486.3	< 1	3,718,812.2	92	4,063,555.4	100

Common Name: INDIGO BUNTING
Scientific Name: *PASSERINA CYANEA*

ITIS TSN: 179150
NS EICode: ABPBX64030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	12,685.7	< 1	2,395.5	< 1	0.0	0	2,679.1	< 1	183.3	< 1	328.7	< 1
Status 2	56,565.5	1	0.0	0	3,349.3	< 1	0.0	0	3,400.4	< 1	192.2	< 1	41,897.5	1
Status 3	0.0	0	58,354.4	1	1,618.0	< 1	103,981.8	3	18.2	< 1	22,105.8	< 1	22,526.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,478.2	< 1	5.2	< 1	0.0	0	903.3	< 1
Total	56,572.2	1	71,040.1	2	7,362.8	< 1	105,459.9	3	6,102.9	< 1	22,481.3	< 1	65,656.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,466.6	< 1	6.7	< 1	6,002.1	< 1	172.6	< 1	0.0	0	26,927.1	< 1
Status 2	76.7	< 1	19.7	< 1	681.8	< 1	1,699.9	< 1	0.0	0	42.3	< 1	107,925.1	3
Status 3	9,687.5	< 1	0.0	0	709.4	< 1	1,590.8	< 1	1,104.7	< 1	0.0	0	221,697.4	5
Status 4	0.0	0	0.0	0	83.9	< 1	103.0	< 1	264.8	< 1	3,724,055.7	91	3,726,894.1	91
Total	9,764.2	< 1	2,486.3	< 1	1,481.7	< 1	9,395.8	< 1	1,542.1	< 1	3,724,098.0	91	4,083,443.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PAINTED BUNTING
Scientific Name: *PASSERINA CIRIS*

ITIS TSN: 179156
NS EICode: ABPBX64060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,856.4	1	0.0	0	0.0	0	190.3	<1	0.0	0	0.0	0
Status 2	1,219.1	<1	0.0	0	884.3	<1	0.0	0	797.8	<1	0.0	0	18,462.6	5
Status 3	0.0	0	20,247.3	5	988.5	<1	35,061.7	9	0.0	0	5,682.7	1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	26.8	<1	0.0	0	0.0	0	0.0	0
Total	1,219.1	<1	26,103.7	7	1,872.7	<1	35,088.5	9	988.0	<1	5,682.7	1	18,462.6	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	334.7	<1	0.0	0	5,303.0	1	169.1	<1	0.0	0	11,853.5	3
Status 2	0.0	0	19.7	<1	43.3	<1	430.6	<1	0.0	0	0.0	0	21,857.3	6
Status 3	4,364.3	1	0.0	0	0.0	0	790.5	<1	0.0	0	0.0	0	67,134.9	17
Status 4	0.0	0	0.0	0	10.0	<1	0.0	0	0.0	0	295,751.3	75	295,788.1	75
Total	4,364.3	1	354.4	<1	53.3	<1	6,524.0	2	169.1	<1	295,751.3	75	396,633.7	100

Common Name: DICKCISSEL
Scientific Name: *SPIZA AMERICANA*

ITIS TSN: 179165
NS EICode: ABPBX65010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	<1	20.3	<1	0.0	0	0.0	0	356.0	<1	0.2	<1	84.8	<1
Status 2	6,663.8	<1	0.0	0	47.8	<1	0.0	0	662.7	<1	132.8	<1	2,332.0	<1
Status 3	0.0	0	1,386.1	<1	28.9	<1	9,355.8	<1	16.6	<1	1,078.5	<1	1,490.0	<1
Status 4	0.0	0	0.0	0	0.0	0	55.5	<1	3.2	<1	0.0	0	478.8	<1
Total	6,684.2	<1	1,406.4	<1	76.7	<1	9,411.3	<1	1,038.3	<1	1,211.5	<1	4,385.6	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	19.1	<1	0.0	0	213.5	<1	22.1	<1	0.0	0	736.4	<1
Status 2	0.0	0	4.4	<1	188.8	<1	595.1	<1	0.0	0	17.2	<1	10,644.6	<1
Status 3	742.9	<1	0.0	0	300.1	<1	557.4	<1	1,810.4	<1	0.0	0	16,766.5	<1
Status 4	0.0	0	0.0	0	44.5	<1	67.1	<1	506.4	<1	3,400,360.3	99	3,401,515.7	99
Total	742.9	<1	23.5	<1	533.3	<1	1,433.0	<1	2,338.9	<1	3,400,377.5	99	3,429,663.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN TOWHEE

Scientific Name: *PIPILO ERYTHROPHthalmus*

ITIS TSN: 179276

NS EICode: ABPBX74030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	40,575.6	< 1	100,980.6	1	0.0	0	24,272.6	< 1	909.6	< 1	8,562.2	< 1
Status 2	118,154.3	1	0.0	0	17,975.8	< 1	0.0	0	25,949.3	< 1	1,456.6	< 1	91,466.5	1
Status 3	0.0	0	440,348.2	5	2,641.9	< 1	138,468.9	2	36.0	< 1	33,888.2	< 1	30,829.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,067.1	< 1	44.0	< 1	0.0	0	1,172.6	< 1
Total	118,159.1	1	480,923.8	6	121,598.3	1	140,536.0	2	50,301.9	< 1	36,254.4	< 1	132,031.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,685.0	< 1	11.8	< 1	10,411.3	< 1	221.3	< 1	0.0	0	194,634.8	2
Status 2	628.3	< 1	24.2	< 1	9,212.8	< 1	6,962.9	< 1	0.0	0	321.0	< 1	272,151.7	3
Status 3	16,812.5	< 1	0.0	0	2,016.6	< 1	14,896.2	< 1	2,787.7	< 1	0.0	0	682,726.0	8
Status 4	0.0	0	0.0	0	88.7	< 1	757.6	< 1	1,008.4	< 1	7,543,552.6	87	7,548,691.1	87
Total	17,440.8	< 1	8,709.2	< 1	11,329.9	< 1	33,028.0	< 1	4,017.3	< 1	7,543,873.6	87	8,698,203.5	100

Common Name: BACHMAN'S SPARROW

Scientific Name: *AIMOPHILA AESTIVALIS*

ITIS TSN: 179386

NS EICode: ABPBX91050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7.7	< 1	0.0	0	0.0	0	338.2	< 1	0.0	0	0.0	0
Status 2	193.3	< 1	0.0	0	0.0	0	0.0	0	257.5	< 1	0.0	0	409.8	< 1
Status 3	0.0	0	738.6	< 1	8.4	< 1	40,714.7	16	0.0	0	6.7	< 1	14,732.9	6
Status 4	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	0.0	0	384.7	< 1
Total	193.3	< 1	746.4	< 1	8.4	< 1	40,714.7	16	595.7	< 1	6.7	< 1	15,527.3	6
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	187.0	< 1	0.0	0	0.0	0	533.0	< 1
Status 2	0.0	0	0.0	0	9.3	< 1	79.7	< 1	0.0	0	0.0	0	949.5	< 1
Status 3	1,827.5	< 1	0.0	0	144.9	< 1	382.8	< 1	0.0	0	0.0	0	58,556.3	23
Status 4	0.0	0	0.0	0	5.9	< 1	4.2	< 1	0.0	0	199,645.1	77	200,039.9	77
Total	1,827.5	< 1	0.0	0	160.0	< 1	653.7	< 1	0.0	0	199,645.1	77	260,078.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CHIPPING SPARROW
Scientific Name: SPIZELLA PASSERINA

ITIS TSN: 179435
NS EICode: ABPBX94020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	501.0	< 1	771.7	< 1	0.0	0	1,829.3	< 1	0.2	< 1	101.8	< 1
Status 2	6,909.0	< 1	0.0	0	527.9	< 1	0.0	0	2,310.4	< 1	185.8	< 1	5,213.7	< 1
Status 3	0.0	0	10,660.0	< 1	63.5	< 1	50,396.7	1	16.6	< 1	1,126.4	< 1	16,593.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	88.9	< 1	8.5	< 1	0.0	0	868.2	< 1
Total	6,929.5	< 1	11,161.0	< 1	1,363.0	< 1	50,485.6	1	4,164.7	< 1	1,312.4	< 1	22,777.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	19.1	< 1	0.2	< 1	484.1	< 1	22.2	< 1	0.0	0	3,749.9	< 1
Status 2	49.6	< 1	4.4	< 1	356.8	< 1	756.5	< 1	0.0	0	17.2	< 1	16,331.1	< 1
Status 3	2,740.5	< 1	0.0	0	537.8	< 1	1,047.5	< 1	1,880.7	< 1	0.0	0	85,063.5	2
Status 4	0.0	0	0.0	0	49.8	< 1	107.0	< 1	660.6	< 1	4,144,819.4	97	4,146,602.4	98
Total	2,790.1	< 1	23.5	< 1	944.5	< 1	2,395.1	< 1	2,563.6	< 1	4,144,836.6	97	4,251,747.0	100

Common Name: FIELD SPARROW
Scientific Name: SPIZELLA PUSILLA

ITIS TSN: 179443
NS EICode: ABPBX94050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	2,715.2	< 1	5,154.7	< 1	0.0	0	1,540.0	< 1	0.9	< 1	257.6	< 1
Status 2	6,546.8	< 1	0.0	0	4,498.3	< 1	0.0	0	2,692.5	< 1	190.3	< 1	6,188.9	< 1
Status 3	0.0	0	32,203.5	< 1	1,600.6	< 1	68,368.1	2	18.2	< 1	4,888.4	< 1	20,201.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	421.4	< 1	5.2	< 1	0.0	0	825.1	< 1
Total	6,551.9	< 1	34,918.7	< 1	11,253.5	< 1	68,789.5	2	4,255.9	< 1	5,079.5	< 1	27,472.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	652.5	< 1	4.3	< 1	1,020.8	< 1	143.6	< 1	0.0	0	11,494.7	< 1
Status 2	76.3	< 1	6.6	< 1	837.5	< 1	725.0	< 1	0.0	0	20.1	< 1	21,782.3	< 1
Status 3	5,205.2	< 1	0.0	0	660.2	< 1	1,699.2	< 1	1,080.5	< 1	0.0	0	135,924.9	4
Status 4	0.0	0	0.0	0	67.2	< 1	90.0	< 1	244.4	< 1	3,344,526.0	95	3,346,179.3	95
Total	5,281.4	< 1	659.1	< 1	1,569.3	< 1	3,535.0	< 1	1,468.4	< 1	3,344,546.1	95	3,515,381.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: VESPER SPARROW

Scientific Name: POOECETES GRAMINEUS

ITIS TSN: 179366

NS EICode: ABPBX95010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	6.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,061.5	2	0.0	0	13.3	< 1	1.2	< 1	23.7	< 1
Status 3	0.0	0	849.8	2	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	849.8	2	1,061.5	2	0.0	0	19.4	< 1	3.4	< 1	23.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	72.3	< 1	0.0	0	0.0	0	78.4	< 1
Status 2	0.0	0	0.0	0	10.4	< 1	28.8	< 1	0.0	0	0.0	0	1,138.9	2
Status 3	0.0	0	0.0	0	0.0	0	12.4	< 1	0.0	0	0.0	0	864.5	2
Status 4	0.0	0	0.0	0	0.0	0	3.4	< 1	28.0	< 1	49,978.3	96	50,009.7	96
Total	0.0	0	0.0	0	10.4	< 1	116.9	< 1	28.0	< 1	49,978.3	96	52,091.4	100

Common Name: LARK SPARROW

Scientific Name: CHONDESTES GRAMMACUS

ITIS TSN: 179371

NS EICode: ABPBX96010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	543.5	< 1	0.0	0	0.0	0
Status 2	110.0	< 1	0.0	0	0.0	0	0.0	0	96.4	< 1	0.0	0	778.1	< 1
Status 3	0.0	0	0.0	0	0.0	0	49,883.2	16	0.0	0	0.0	0	19,092.3	6
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	688.9	< 1
Total	110.0	< 1	0.0	0	0.0	0	49,883.2	16	639.9	< 1	0.0	0	20,559.2	7
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	99.4	< 1	0.0	0	0.0	0	642.9	< 1
Status 2	0.0	0	0.0	0	0.0	0	59.3	< 1	0.0	0	0.0	0	1,043.7	< 1
Status 3	138.3	< 1	0.0	0	257.5	< 1	4.1	< 1	0.0	0	0.0	0	69,375.5	22
Status 4	0.0	0	0.0	0	0.0	0	20.0	< 1	0.0	0	240,010.4	77	240,719.2	77
Total	138.3	< 1	0.0	0	257.5	< 1	182.8	< 1	0.0	0	240,010.4	77	311,781.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SAVANNAH SPARROW

Scientific Name: *PASSERCULUS SANDWICHENSIS*

ITIS TSN: 179314

NS EICode: ABPBX99010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	217.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	217.3	< 1	0.0	0	127.3	< 1	0.0	0	119.1	< 1
Status 3	0.0	0	300.3	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	300.3	< 1	217.3	< 1	0.0	0	344.9	1	0.0	0	119.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1.0	< 1	0.0	0	0.0	0	218.6	< 1
Status 2	0.0	0	0.0	0	0.0	0	23.4	< 1	0.0	0	0.0	0	487.0	2
Status 3	3.0	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	303.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	29,444.0	97	29,444.0	97
Total	3.0	< 1	0.0	0	0.0	0	24.4	< 1	0.0	0	29,444.0	97	30,452.9	100

Common Name: GRASSHOPPER SPARROW

Scientific Name: *AMMODRAMUS SAVANNARUM*

ITIS TSN: 179333

NS EICode: ABPBXA0020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	677.6	< 1	1,418.7	< 1	0.0	0	1,824.8	< 1	0.0	0	98.8	< 1
Status 2	1,137.2	< 1	0.0	0	1,782.5	< 1	0.0	0	2,215.9	< 1	184.6	< 1	4,239.4	< 1
Status 3	0.0	0	13,591.0	< 1	39.4	< 1	41,229.4	1	15.3	< 1	194.7	< 1	16,346.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	111.5	< 1	8.3	< 1	0.0	0	838.3	< 1
Total	1,137.2	< 1	14,268.6	< 1	3,240.5	< 1	41,340.9	1	4,064.3	< 1	379.3	< 1	21,522.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	206.7	< 1	0.2	< 1	356.0	< 1	22.2	< 1	0.0	0	4,605.0	< 1
Status 2	55.4	< 1	0.0	0	335.1	< 1	432.3	< 1	0.0	0	0.0	0	10,382.2	< 1
Status 3	2,734.3	< 1	0.0	0	436.7	< 1	983.0	< 1	1,665.6	< 1	0.0	0	77,235.3	2
Status 4	0.0	0	0.0	0	6.0	< 1	100.0	< 1	688.1	< 1	3,578,000.7	97	3,579,752.8	97
Total	2,789.6	< 1	206.7	< 1	778.0	< 1	1,871.2	< 1	2,375.9	< 1	3,578,000.7	97	3,671,975.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HENSLOW'S SPARROW

Scientific Name: AMMODRAMUS HENSLOWII

ITIS TSN: 179340

NS EICode: ABPBXA0030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	13.9	< 1	92.0	< 1	0.0	0	0.0	0	162.7	< 1	0.0	0	79.7	< 1
Status 2	2,438.2	< 1	0.0	0	2,124.5	< 1	0.0	0	770.5	< 1	6.3	< 1	924.7	< 1
Status 3	0.0	0	3,365.6	< 1	19.9	< 1	10,483.3	1	0.0	0	1,344.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	35.6	< 1	0.0	0	0.0	0	0.0	0
Total	2,452.1	< 1	3,457.5	< 1	2,144.3	< 1	10,518.8	1	933.2	< 1	1,350.5	< 1	1,004.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	284.0	< 1	0.0	0	273.5	< 1	73.4	< 1	0.0	0	979.2	< 1
Status 2	0.0	0	8.9	< 1	47.4	< 1	439.0	< 1	0.0	0	0.0	0	6,759.5	< 1
Status 3	0.0	0	0.0	0	0.0	0	748.4	< 1	1,532.4	< 1	0.0	0	17,493.8	2
Status 4	0.0	0	0.0	0	41.3	< 1	0.0	0	282.4	< 1	971,912.9	97	972,272.2	97
Total	0.0	0	292.9	< 1	88.7	< 1	1,461.0	< 1	1,888.3	< 1	971,912.9	97	997,504.7	100

Common Name: SEASIDE SPARROW

Scientific Name: AMMODRAMUS MARITIMUS

ITIS TSN: 179346

NS EICode: ABPBXA0060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,816.7	2	0.0	0	0.0	0	0.0	0	1,114.1	1	0.0	0	432.5	< 1
Status 2	14,060.8	14	0.0	0	5,184.3	5	0.0	0	551.2	< 1	0.0	0	3,594.6	4
Status 3	0.0	0	153.5	< 1	4,960.0	5	6,314.5	6	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	565.2	< 1	0.0	0	0.0	0	0.0	0
Total	15,877.4	15	153.5	< 1	10,144.3	10	6,879.7	7	1,665.3	2	0.0	0	4,027.1	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,558.5	2	0.0	0	946.3	< 1	0.0	0	0.0	0	5,868.0	6
Status 2	0.0	0	144.9	< 1	1.7	< 1	451.3	< 1	0.0	0	0.0	0	23,988.7	23
Status 3	0.0	0	0.0	0	0.0	0	594.7	< 1	34.3	< 1	0.0	0	12,056.9	12
Status 4	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0	60,096.3	59	60,662.3	59
Total	0.0	0	1,703.4	2	2.5	< 1	1,992.2	2	34.3	< 1	60,096.3	59	102,576.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SONG SPARROW
Scientific Name: MELOSPIZA MELODIA

ITIS TSN: 179492
NS EICode: ABPBXA3010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,534.6	< 1	5,614.7	< 1	0.0	0	1,009.5	< 1	0.0	0	115.3	< 1
Status 2	21,086.6	< 1	0.0	0	4,788.8	< 1	0.0	0	1,781.7	< 1	23.2	< 1	4,169.1	< 1
Status 3	0.0	0	26,336.4	1	2,064.2	< 1	19,684.8	< 1	0.0	0	113.1	< 1	4,757.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,568.7	< 1	5.2	< 1	0.0	0	0.0	0
Total	21,086.6	< 1	28,871.0	1	12,467.6	< 1	21,253.5	< 1	2,796.5	< 1	136.4	< 1	9,041.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	516.2	< 1	7.1	< 1	648.5	< 1	0.5	< 1	0.0	0	10,446.3	< 1
Status 2	79.1	< 1	39.1	< 1	866.0	< 1	536.0	< 1	0.0	0	0.0	0	33,369.5	1
Status 3	392.2	< 1	0.0	0	494.9	< 1	949.1	< 1	126.4	< 1	0.0	0	54,918.3	2
Status 4	0.0	0	0.0	0	0.0	0	72.5	< 1	210.4	< 1	2,254,214.3	96	2,256,071.0	96
Total	471.4	< 1	555.3	< 1	1,368.0	< 1	2,205.9	< 1	337.2	< 1	2,254,214.3	96	2,354,805.1	100

Common Name: DARK-EYED JUNCO
Scientific Name: JUNCO HYEMALIS

ITIS TSN: 179410
NS EICode: ABPBXA5020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	17,120.3	4	63,041.8	14	0.0	0	262.4	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	10,170.7	2	0.0	0	612.4	< 1	2.4	< 1	1,913.4	< 1
Status 3	0.0	0	126,884.2	29	0.0	0	0.0	0	0.0	0	65.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	144,004.5	32	73,212.5	17	0.0	0	874.8	< 1	68.3	< 1	1,913.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,872.1	< 1	0.0	0	0.0	0	82,296.6	19
Status 2	3.9	< 1	0.0	0	5,011.3	1	542.2	< 1	0.0	0	0.0	0	18,256.3	4
Status 3	0.0	0	0.0	0	0.0	0	3,369.4	< 1	0.0	0	0.0	0	130,319.5	29
Status 4	0.0	0	0.0	0	0.0	0	91.0	< 1	0.0	0	212,600.5	48	212,691.5	48
Total	3.9	< 1	0.0	0	5,011.3	1	5,874.7	1	0.0	0	212,600.5	48	443,563.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BOBOLINK

Scientific Name: *DOLICHONYX ORYZIVORUS*

ITIS TSN: 179032

NS EICode: ABPBXA9010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	313.7	< 1	1,431.2	< 1	0.0	0	229.7	< 1	0.0	0	14.4	< 1
Status 2	0.0	0	0.0	0	1,794.3	< 1	0.0	0	184.5	< 1	0.7	< 1	270.2	< 1
Status 3	0.0	0	11,127.2	3	19.9	< 1	0.0	0	0.0	0	2.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	11.9	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	11,441.0	3	3,245.4	< 1	11.9	< 1	414.2	< 1	3.0	< 1	284.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	77.0	< 1	< 0.1	< 1	0.0	0	2,066.0	< 1
Status 2	55.4	< 1	0.0	0	67.2	< 1	104.0	< 1	0.0	0	0.0	0	2,476.3	< 1
Status 3	160.7	< 1	0.0	0	0.0	0	12.5	< 1	0.0	0	0.0	0	11,322.5	3
Status 4	0.0	0	0.0	0	0.0	0	15.0	< 1	116.2	< 1	312,924.2	95	313,067.3	95
Total	216.0	< 1	0.0	0	67.2	< 1	208.4	< 1	116.3	< 1	312,924.2	95	328,932.1	100

Common Name: RED-WINGED BLACKBIRD

Scientific Name: *AGELAIUS PHOENICEUS*

ITIS TSN: 179045

NS EICode: ABPBXB0010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	314.9	< 1	401.0	< 1	320.5	< 1	0.0	0	724.7	< 1	3.6	< 1	124.7	< 1
Status 2	7,545.5	1	0.0	0	1,549.8	< 1	0.0	0	442.1	< 1	25.7	< 1	1,652.5	< 1
Status 3	0.0	0	4,085.1	< 1	654.5	< 1	6,754.4	1	3.4	< 1	216.0	< 1	1,232.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,249.7	< 1	1.0	< 1	0.0	0	175.9	< 1
Total	7,860.4	1	4,486.1	< 1	2,524.8	< 1	8,004.2	1	1,171.2	< 1	245.3	< 1	3,185.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	809.4	< 1	1.1	< 1	385.4	< 1	3.6	< 1	0.0	0	3,088.7	< 1
Status 2	7.6	< 1	121.3	< 1	87.1	< 1	247.2	< 1	0.0	0	14.9	< 1	11,693.8	2
Status 3	108.9	< 1	0.0	0	115.1	< 1	167.8	< 1	406.9	< 1	0.0	0	13,744.4	2
Status 4	0.0	0	0.0	0	7.7	< 1	9.8	< 1	153.1	< 1	564,398.5	95	565,995.6	95
Total	116.5	< 1	930.7	< 1	211.0	< 1	810.2	< 1	563.6	< 1	564,413.4	95	594,522.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN MEADOWLARK

Scientific Name: STURNELLA MAGNA

ITIS TSN: 179034

NS EICode: ABPBXB2020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	203.4	< 1	944.2	< 1	0.0	0	1,038.8	< 1	0.2	< 1	105.0	< 1
Status 2	7,187.6	< 1	0.0	0	3,033.5	< 1	0.0	0	1,451.5	< 1	153.3	< 1	2,872.7	< 1
Status 3	0.0	0	11,538.7	< 1	2,175.2	< 1	47,083.2	1	16.6	< 1	1,084.8	< 1	16,201.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	91.5	< 1	3.1	< 1	0.0	0	813.3	< 1
Total	7,208.0	< 1	11,742.1	< 1	6,152.9	< 1	47,174.8	1	2,509.9	< 1	1,238.2	< 1	19,992.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	302.0	< 1	0.0	0	459.5	< 1	22.2	< 1	0.0	0	3,095.8	< 1
Status 2	55.4	< 1	8.9	< 1	233.0	< 1	774.5	< 1	0.0	0	17.2	< 1	15,787.6	< 1
Status 3	2,724.5	< 1	0.0	0	408.9	< 1	947.1	< 1	1,810.4	< 1	0.0	0	83,990.6	2
Status 4	0.0	0	0.0	0	48.8	< 1	92.0	< 1	622.6	< 1	3,791,880.6	97	3,793,551.9	97
Total	2,779.8	< 1	311.0	< 1	690.7	< 1	2,273.1	< 1	2,455.2	< 1	3,791,897.8	97	3,896,426.0	100

Common Name: BOAT-TAILED GRACKLE

Scientific Name: QUISCALUS MAJOR

ITIS TSN: 179108

NS EICode: ABPBXB6060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,818.2	< 1	12.0	< 1	0.0	0	0.0	0	1,116.3	< 1	6.1	< 1	445.6	< 1
Status 2	19,353.6	7	0.0	0	5,212.5	2	0.0	0	657.4	< 1	0.0	0	4,269.4	2
Status 3	0.0	0	593.8	< 1	5,106.2	2	11,739.8	4	0.0	0	235.0	< 1	2.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	575.1	< 1	0.0	0	0.0	0	0.0	0
Total	21,171.8	8	605.8	< 1	10,318.7	4	12,314.9	5	1,773.6	< 1	241.1	< 1	4,717.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,595.4	< 1	0.0	0	960.6	< 1	0.0	0	0.0	0	5,954.1	2
Status 2	0.0	0	145.1	< 1	14.9	< 1	497.5	< 1	0.0	0	1.4	< 1	30,151.9	11
Status 3	13.0	< 1	0.0	0	0.0	0	649.2	< 1	34.9	< 1	0.0	0	18,373.9	7
Status 4	0.0	0	0.0	0	19.2	< 1	0.0	0	59.9	< 1	214,250.4	80	214,904.5	80
Total	13.0	< 1	1,740.5	< 1	34.1	< 1	2,107.3	< 1	94.8	< 1	214,251.8	80	269,384.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON GRACKLE
Scientific Name: *QUISCALUS QUISCU*

ITIS TSN: 179104
NS EICode: ABPBXB6070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,840.2	< 1	819.0	< 1	1,243.4	< 1	0.0	0	4,011.7	< 1	3.5	< 1	639.7	< 1
Status 2	23,009.2	< 1	0.0	0	7,075.2	< 1	0.0	0	4,151.3	< 1	267.1	< 1	11,945.7	< 1
Status 3	0.0	0	23,052.6	< 1	6,073.5	< 1	74,363.0	1	16.9	< 1	4,168.3	< 1	19,181.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	728.3	< 1	9.4	< 1	0.0	0	1,050.3	< 1
Total	24,849.5	< 1	23,871.6	< 1	14,392.1	< 1	75,091.3	1	8,189.2	< 1	4,438.9	< 1	32,816.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,153.6	< 1	0.4	< 1	1,714.7	< 1	156.1	< 1	0.0	0	12,582.3	< 1
Status 2	56.0	< 1	151.4	< 1	620.3	< 1	1,520.5	< 1	0.0	0	24.9	< 1	48,821.5	< 1
Status 3	4,788.5	< 1	0.0	0	635.1	< 1	1,995.8	< 1	2,610.8	< 1	0.0	0	136,885.6	3
Status 4	0.0	0	0.0	0	59.8	< 1	120.9	< 1	740.7	< 1	5,168,929.3	96	5,171,638.6	96
Total	4,844.5	< 1	2,305.0	< 1	1,315.5	< 1	5,351.8	< 1	3,507.6	< 1	5,168,954.3	96	5,369,928.0	100

Common Name: BROWN-HEADED COWBIRD
Scientific Name: *MOLOTHRUS ATER*

ITIS TSN: 179112
NS EICode: ABPBXB7030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	23,280.8	< 1	45,776.7	< 1	0.0	0	21,828.2	< 1	574.7	< 1	4,472.6	< 1
Status 2	108,101.1	< 1	0.0	0	10,878.9	< 1	0.0	0	24,265.0	< 1	900.5	< 1	80,149.8	< 1
Status 3	0.0	0	310,425.0	3	4,688.2	< 1	134,012.3	1	29.9	< 1	33,670.4	< 1	30,123.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,023.0	< 1	38.9	< 1	0.0	0	1,488.8	< 1
Total	108,126.3	< 1	333,705.8	3	61,343.8	< 1	136,035.4	1	46,162.0	< 1	35,145.5	< 1	116,234.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,919.7	< 1	11.2	< 1	7,824.8	< 1	208.0	< 1	0.0	0	111,921.8	1
Status 2	607.1	< 1	26.6	< 1	4,433.0	< 1	5,640.5	< 1	0.0	0	229.4	< 1	235,231.8	2
Status 3	15,756.5	< 1	0.0	0	2,045.9	< 1	3,928.5	< 1	4,345.7	< 1	0.0	0	539,026.1	5
Status 4	0.0	0	0.0	0	112.2	< 1	707.6	< 1	1,348.3	< 1	9,988,176.1	92	9,993,894.8	92
Total	16,363.6	< 1	7,946.4	< 1	6,602.2	< 1	18,101.3	< 1	5,901.9	< 1	9,988,405.5	92	10,880,074.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ORCHARD ORIOLE
Scientific Name: *ICTERUS SPURIUS*

ITIS TSN: 179064
NS EICode: ABPBXB9070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	597.6	< 1	260.5	< 1	0.0	0	1,364.7	< 1	70.4	< 1	292.0	< 1
Status 2	13,350.5	< 1	0.0	0	401.0	< 1	0.0	0	2,501.9	< 1	199.2	< 1	8,640.9	< 1
Status 3	0.0	0	19,009.9	< 1	592.7	< 1	80,945.9	2	21.1	< 1	7,172.1	< 1	20,825.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	439.7	< 1	5.4	< 1	0.0	0	864.7	< 1
Total	13,357.3	< 1	19,607.5	< 1	1,254.1	< 1	81,385.7	2	3,893.0	< 1	7,441.7	< 1	30,623.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	767.9	< 1	4.8	< 1	819.9	< 1	163.7	< 1	0.0	0	4,348.1	< 1
Status 2	2.6	< 1	17.2	< 1	548.2	< 1	911.7	< 1	0.0	0	29.2	< 1	26,602.2	< 1
Status 3	5,298.8	< 1	0.0	0	705.2	< 1	1,348.3	< 1	1,085.0	< 1	0.0	0	137,004.2	4
Status 4	0.0	0	0.0	0	79.1	< 1	83.0	< 1	209.3	< 1	3,338,261.6	95	3,339,942.8	95
Total	5,301.3	< 1	785.1	< 1	1,337.2	< 1	3,162.9	< 1	1,458.1	< 1	3,338,290.7	95	3,507,897.4	100

Common Name: BALTIMORE ORIOLE
Scientific Name: *ICTERUS GALBULA*

ITIS TSN: 179083
NS EICode: ABPBXB9190

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,405.6	< 1	5,176.1	< 1	0.0	0	605.7	< 1	0.0	0	48.8	< 1
Status 2	599.7	< 1	0.0	0	3,693.1	< 1	0.0	0	894.1	< 1	17.8	< 1	1,260.6	< 1
Status 3	0.0	0	25,864.2	2	67.5	< 1	71.0	< 1	0.0	0	2.3	< 1	154.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	112.2	< 1	5.2	< 1	0.0	0	0.0	0
Total	599.7	< 1	28,269.8	2	8,936.6	< 1	183.2	< 1	1,505.0	< 1	20.2	< 1	1,463.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	349.2	< 1	0.4	< 1	0.0	0	8,585.7	< 1
Status 2	78.7	< 1	0.0	0	723.8	< 1	188.8	< 1	0.0	0	0.0	0	7,456.5	< 1
Status 3	317.6	< 1	0.0	0	42.8	< 1	891.2	< 1	0.0	0	0.0	0	27,410.8	2
Status 4	0.0	0	0.0	0	0.0	0	70.1	< 1	209.8	< 1	1,488,955.9	97	1,489,353.2	97
Total	396.3	< 1	0.0	0	766.6	< 1	1,499.3	< 1	210.2	< 1	1,488,955.9	97	1,532,806.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HOUSE FINCH

Scientific Name: *CARPODACUS MEXICANUS*

ITIS TSN: 179191

NS EICode: ABPBY04040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	544.4	< 1	1,010.8	< 1	0.0	0	1,531.3	< 1	0.9	< 1	252.1	< 1
Status 2	6,543.4	< 1	0.0	0	1,545.1	< 1	0.0	0	2,481.1	< 1	188.3	< 1	6,069.0	< 1
Status 3	0.0	0	20,038.1	< 1	1,597.3	< 1	68,368.1	2	18.2	< 1	4,886.0	< 1	20,201.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	414.2	< 1	5.2	< 1	0.0	0	825.1	< 1
Total	6,548.5	< 1	20,582.5	< 1	4,153.2	< 1	68,782.3	2	4,035.8	< 1	5,075.2	< 1	27,347.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	650.5	< 1	4.3	< 1	800.3	< 1	143.6	< 1	0.0	0	4,943.3	< 1
Status 2	67.8	< 1	6.6	< 1	555.8	< 1	653.9	< 1	0.0	0	20.1	< 1	18,131.1	< 1
Status 3	5,192.9	< 1	0.0	0	660.2	< 1	1,166.4	< 1	1,080.5	< 1	0.0	0	123,208.8	4
Status 4	0.0	0	0.0	0	66.8	< 1	80.9	< 1	223.1	< 1	3,263,443.7	96	3,265,059.0	96
Total	5,260.7	< 1	657.1	< 1	1,287.2	< 1	2,701.5	< 1	1,447.2	< 1	3,263,463.7	96	3,411,342.2	100

Common Name: RED CROSSBILL

Scientific Name: *LOXIA CURVIROSTRA*

ITIS TSN: 179259

NS EICode: ABPBY05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,562.3	3	12,451.9	27	0.0	0	14.3	< 1	0.0	0	0.2	< 1
Status 2	0.0	0	0.0	0	1,773.3	4	0.0	0	450.5	< 1	0.7	< 1	79.2	< 1
Status 3	0.0	0	9,612.9	21	0.0	0	0.0	0	0.0	0	2.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	11,175.2	24	14,225.1	31	0.0	0	464.8	1	3.5	< 1	79.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	329.5	< 1	0.0	0	0.0	0	14,358.2	31
Status 2	3.4	< 1	0.0	0	416.7	< 1	42.9	< 1	0.0	0	0.0	0	2,766.7	6
Status 3	2.3	< 1	0.0	0	0.0	0	655.3	1	0.0	0	0.0	0	10,273.2	22
Status 4	0.0	0	0.0	0	0.0	0	2.3	< 1	1.1	< 1	18,974.1	41	18,977.4	41
Total	5.6	< 1	0.0	0	416.7	< 1	1,030.0	2	1.1	< 1	18,974.1	41	46,375.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PINE SISKIN
Scientific Name: *CARDUELIS PINUS*

ITIS TSN: 179233
NS EICode: ABPBY06030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	639.8	5	6,672.2	53	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	687.8	5	0.0	0	438.1	3	0.0	0	1.0	< 1
Status 3	0.0	0	2,157.1	17	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,796.9	22	7,360.0	59	0.0	0	438.1	3	0.0	0	1.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	175.3	1	0.0	0	0.0	0	7,487.4	60
Status 2	0.0	0	0.0	0	280.3	2	0.0	0	0.0	0	0.0	0	1,407.2	11
Status 3	0.0	0	0.0	0	0.0	0	489.4	4	0.0	0	0.0	0	2,646.5	21
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	978.4	8	978.4	8
Total	0.0	0	0.0	0	280.3	2	664.7	5	0.0	0	978.4	8	12,519.5	100

Common Name: AMERICAN GOLDFINCH
Scientific Name: *CARDUELIS TRISTIS*

ITIS TSN: 179236
NS EICode: ABPBY06110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.7	< 1	2,852.3	< 1	5,612.9	< 1	0.0	0	941.3	< 1	74.9	< 1	342.7	< 1
Status 2	9,284.7	< 1	0.0	0	3,886.7	< 1	0.0	0	2,158.9	< 1	177.1	< 1	6,802.6	< 1
Status 3	0.0	0	34,304.0	1	74.0	< 1	33,585.8	1	19.7	< 1	4,549.5	< 1	4,672.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,496.6	< 1	5.2	< 1	0.0	0	364.1	< 1
Total	9,291.3	< 1	37,156.3	1	9,573.6	< 1	35,082.4	1	3,125.2	< 1	4,801.5	< 1	12,182.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	516.2	< 1	6.1	< 1	779.9	< 1	155.3	< 1	0.0	0	11,288.2	< 1
Status 2	79.1	< 1	16.6	< 1	889.3	< 1	733.0	< 1	0.0	0	19.2	< 1	24,047.1	< 1
Status 3	2,270.3	< 1	0.0	0	533.0	< 1	1,531.9	< 1	604.7	< 1	0.0	0	82,145.7	3
Status 4	0.0	0	0.0	0	52.0	< 1	91.8	< 1	231.6	< 1	2,874,430.2	96	2,876,671.4	96
Total	2,349.5	< 1	532.8	< 1	1,480.4	< 1	3,136.5	< 1	991.5	< 1	2,874,449.3	96	2,994,152.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HOUSE SPARROW
Scientific Name: *PASSER DOMESTICUS*

ITIS TSN: 179628
NS EICode: ABPBZ01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	200.3	< 1	951.3	< 1	0.0	0	601.8	< 1	0.2	< 1	104.6	< 1
Status 2	6,710.7	< 1	0.0	0	1,638.4	< 1	0.0	0	930.8	< 1	135.1	< 1	2,791.8	< 1
Status 3	0.0	0	11,301.8	< 1	306.3	< 1	15,639.3	< 1	16.8	< 1	1,079.1	< 1	1,539.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	78.1	< 1	3.4	< 1	0.0	0	517.1	< 1
Total	6,731.1	< 1	11,502.1	< 1	2,895.9	< 1	15,717.4	< 1	1,552.9	< 1	1,214.4	< 1	4,952.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	30.2	< 1	0.0	0	233.9	< 1	22.2	< 1	0.0	0	2,165.0	< 1
Status 2	56.0	< 1	4.6	< 1	275.0	< 1	707.9	< 1	0.0	0	17.2	< 1	13,267.4	< 1
Status 3	920.7	< 1	0.0	0	331.0	< 1	567.2	< 1	1,816.7	< 1	0.0	0	33,518.2	< 1
Status 4	0.0	0	0.0	0	46.1	< 1	93.5	< 1	624.0	< 1	3,923,319.2	99	3,924,681.4	99
Total	976.7	< 1	34.7	< 1	652.1	< 1	1,602.5	< 1	2,462.9	< 1	3,923,336.4	99	3,973,631.9	100

Common Name: VIRGINIA OPOSSUM
Scientific Name: *DIDELPHIS VIRGINIANA*

ITIS TSN: 179921
NS EICode: AMAAA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,841.9	< 1	41,729.9	< 1	111,174.1	< 1	0.0	0	25,908.7	< 1	913.1	< 1	9,127.5	< 1
Status 2	138,654.6	1	0.0	0	25,197.3	< 1	0.0	0	27,793.2	< 1	1,588.9	< 1	97,551.0	< 1
Status 3	0.0	0	457,949.8	4	6,744.1	< 1	150,714.9	1	51.3	< 1	34,961.8	< 1	32,271.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,702.4	< 1	47.0	< 1	0.0	0	1,621.4	< 1
Total	140,496.6	1	499,679.6	4	143,115.5	1	153,417.3	1	53,800.1	< 1	37,463.8	< 1	140,571.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,009.5	< 1	11.8	< 1	11,821.1	< 1	244.4	< 1	0.0	0	212,782.1	2
Status 2	718.7	< 1	173.5	< 1	9,779.7	< 1	8,140.1	< 1	0.0	0	338.4	< 1	309,935.4	3
Status 3	17,808.8	< 1	0.0	0	2,215.6	< 1	16,596.1	< 1	4,417.2	< 1	0.0	0	723,730.8	6
Status 4	0.0	0	0.0	0	124.7	< 1	840.1	< 1	1,631.2	< 1	11,081,745.3	90	11,088,712.0	90
Total	18,527.5	< 1	10,183.1	< 1	12,131.7	< 1	37,397.4	< 1	6,292.8	< 1	11,082,083.7	90	12,335,160.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MASKED SHREW
Scientific Name: SOREX CINEREUS

ITIS TSN: 179929
NS EICode: AMABA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,923.1	2	62,357.8	6	0.0	0	1,514.7	< 1	0.0	0	442.4	< 1
Status 2	0.0	0	0.0	0	10,787.9	1	0.0	0	1,914.8	< 1	8.9	< 1	4,104.7	< 1
Status 3	0.0	0	169,199.6	17	41.9	< 1	63.2	< 1	0.0	0	46.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	76.0	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	185,122.7	18	73,187.6	7	139.1	< 1	3,429.5	< 1	55.8	< 1	4,547.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,472.6	< 1	1.3	< 1	0.0	0	81,711.7	8
Status 2	238.3	< 1	0.0	0	4,829.0	< 1	668.8	< 1	0.0	0	0.0	0	22,552.5	2
Status 3	831.2	< 1	0.0	0	0.0	0	2,682.8	< 1	0.0	0	0.0	0	172,865.7	17
Status 4	0.0	0	0.0	0	0.0	0	170.5	< 1	111.2	< 1	731,246.5	72	731,604.2	73
Total	1,069.6	< 1	0.0	0	4,829.0	< 1	4,994.6	< 1	112.5	< 1	731,246.5	72	1,008,734.0	100

Common Name: SOUTHEASTERN SHREW
Scientific Name: SOREX LONGIROSTRIS

ITIS TSN: 179936
NS EICode: AMABA01060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,823.0	< 1	30,968.7	< 1	67,521.2	1	0.0	0	15,861.7	< 1	913.1	< 1	7,121.4	< 1
Status 2	130,242.3	2	0.0	0	13,712.2	< 1	0.0	0	14,000.6	< 1	1,071.3	< 1	75,225.7	1
Status 3	0.0	0	255,913.2	4	170.9	< 1	100,194.2	1	30.9	< 1	33,417.6	< 1	12,548.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,307.5	< 1	16.2	< 1	0.0	0	895.0	< 1
Total	132,065.3	2	286,881.9	4	81,404.4	1	102,501.7	2	29,909.3	< 1	35,402.0	< 1	95,790.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,577.5	< 1	8.7	< 1	9,983.1	< 1	222.3	< 1	0.0	0	143,000.7	2
Status 2	331.3	< 1	164.6	< 1	6,141.6	< 1	6,696.5	< 1	0.0	0	321.8	< 1	247,907.8	4
Status 3	13,551.6	< 1	0.0	0	1,102.8	< 1	14,171.5	< 1	1,796.8	< 1	0.0	0	432,897.8	6
Status 4	0.0	0	0.0	0	89.5	< 1	328.9	< 1	856.2	< 1	5,861,600.5	88	5,866,093.6	88
Total	13,882.9	< 1	8,742.1	< 1	7,342.6	< 1	31,179.9	< 1	2,875.2	< 1	5,861,922.2	88	6,689,899.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WATER SHREW
Scientific Name: SOREX PALUSTRIS

ITIS TSN: 179933
NS EICode: AMABA01150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,029.2	5	4,650.6	23	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	189.4	< 1	0.0	0	3.6	< 1	0.0	0	49.1	< 1
Status 3	0.0	0	6,298.8	31	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	7,328.1	36	4,839.9	24	0.0	0	3.6	< 1	0.0	0	49.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	47.6	< 1	0.0	0	0.0	0	5,727.4	28
Status 2	0.0	0	0.0	0	286.3	1	53.6	< 1	0.0	0	0.0	0	581.9	3
Status 3	0.0	0	0.0	0	0.0	0	275.3	1	0.0	0	0.0	0	6,574.1	32
Status 4	0.0	0	0.0	0	0.0	0	5.8	< 1	0.0	0	7,551.3	37	7,557.0	37
Total	0.0	0	0.0	0	286.3	1	382.2	2	0.0	0	7,551.3	37	20,440.5	100

Common Name: SMOKY SHREW
Scientific Name: SOREX FUMEUS

ITIS TSN: 179943
NS EICode: AMABA01180

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,489.7	3	60,283.9	11	0.0	0	936.5	< 1	0.0	0	417.8	< 1
Status 2	0.0	0	0.0	0	8,655.8	2	0.0	0	1,420.1	< 1	6.1	< 1	3,031.1	< 1
Status 3	0.0	0	151,428.0	27	18.8	< 1	4.5	< 1	0.0	0	43.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	20.0	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	166,917.7	30	68,958.5	12	24.5	< 1	2,356.7	< 1	49.5	< 1	3,448.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,365.8	< 1	1.1	< 1	0.0	0	78,494.9	14
Status 2	151.8	< 1	0.0	0	4,620.3	< 1	563.9	< 1	0.0	0	0.0	0	18,449.1	3
Status 3	544.9	< 1	0.0	0	0.0	0	2,640.9	< 1	0.0	0	0.0	0	154,680.4	28
Status 4	0.0	0	0.0	0	0.0	0	126.3	< 1	7.0	< 1	307,507.2	55	307,660.5	55
Total	696.7	< 1	0.0	0	4,620.3	< 1	4,696.8	< 1	8.1	< 1	307,507.2	55	559,284.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LONG-TAILED SHREW
Scientific Name: SOREX DISPAR

ITIS TSN: 179941
NS EICode: AMABA01210

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,722.2	4	7,787.2	18	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	448.5	1	0.0	0	3.8	< 1	0.0	0	107.6	< 1
Status 3	0.0	0	13,721.2	32	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	15,443.5	36	8,235.6	19	0.0	0	3.8	< 1	0.0	0	107.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	62.2	< 1	0.0	0	0.0	0	9,571.6	23
Status 2	0.0	0	0.0	0	453.7	1	103.6	< 1	0.0	0	0.0	0	1,117.1	3
Status 3	0.5	< 1	0.0	0	0.0	0	366.6	< 1	0.0	0	0.0	0	14,088.2	33
Status 4	0.0	0	0.0	0	0.0	0	13.1	< 1	0.0	0	17,522.3	41	17,535.3	41
Total	0.5	< 1	0.0	0	453.7	1	545.4	1	0.0	0	17,522.3	41	42,312.2	100

Common Name: PYGMY SHREW
Scientific Name: SOREX HOYI

ITIS TSN: 179946
NS EICode: AMABA01250

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,588.8	2	60,794.7	9	0.0	0	1,245.0	< 1	0.0	0	422.3	< 1
Status 2	0.0	0	0.0	0	9,112.3	1	0.0	0	1,958.0	< 1	7.8	< 1	3,442.9	< 1
Status 3	0.0	0	154,988.6	24	19.4	< 1	39.2	< 1	0.0	0	45.5	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.9	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	170,577.4	27	69,926.5	11	63.0	< 1	3,202.9	< 1	53.3	< 1	3,865.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,427.9	< 1	1.2	< 1	0.0	0	79,479.9	12
Status 2	183.9	< 1	0.0	0	4,731.3	< 1	571.4	< 1	0.0	0	0.0	0	20,007.5	3
Status 3	630.9	< 1	0.0	0	0.0	0	2,653.2	< 1	0.0	0	0.0	0	158,376.7	25
Status 4	0.0	0	0.0	0	0.0	0	134.1	< 1	7.1	< 1	383,354.6	60	383,519.6	60
Total	814.8	< 1	0.0	0	4,731.3	< 1	4,786.7	< 1	8.3	< 1	383,354.6	60	641,383.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN SHORT-TAILED SHREW
Scientific Name: *BLARINA BREVICAUDA*

ITIS TSN: 179967
NS EICode: AMABA03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,821.4	< 1	27,677.1	1	60,784.3	2	0.0	0	12,752.2	< 1	911.6	< 1	6,942.6	< 1
Status 2	122,886.9	5	0.0	0	10,507.5	< 1	0.0	0	6,972.5	< 1	1,011.5	< 1	60,013.6	2
Status 3	0.0	0	192,865.3	8	68.2	< 1	72,317.5	3	26.6	< 1	21,067.6	< 1	4,244.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	573.8	< 1	0.0	0	0.0	0	347.6	< 1
Total	124,708.3	5	220,542.4	9	71,360.0	3	72,891.4	3	19,751.2	< 1	22,990.7	< 1	71,548.1	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,455.3	< 1	0.0	0	9,002.1	< 1	122.5	< 1	0.0	0	128,469.1	5
Status 2	184.2	< 1	162.1	< 1	4,823.9	< 1	5,168.8	< 1	0.0	0	306.3	< 1	212,037.3	8
Status 3	8,952.1	< 1	0.0	0	31.8	< 1	12,960.2	< 1	55.7	< 1	0.0	0	312,589.3	12
Status 4	0.0	0	0.0	0	34.7	< 1	200.2	< 1	355.7	< 1	1,906,816.9	74	1,908,328.8	75
Total	9,136.4	< 1	8,617.4	< 1	4,890.3	< 1	27,331.2	1	533.9	< 1	1,907,123.1	74	2,561,424.4	100

Common Name: SOUTHERN SHORT-TAILED SHREW
Scientific Name: *BLARINA CAROLINENSIS*

ITIS TSN: 179968
NS EICode: AMABA03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,823.0	< 1	14,254.7	< 1	0.0	0	0.0	0	17,997.7	< 1	913.1	< 1	7,615.4	< 1
Status 2	132,392.8	2	0.0	0	2,927.7	< 1	0.0	0	15,518.0	< 1	1,145.4	< 1	84,399.8	1
Status 3	0.0	0	63,857.3	< 1	4,229.6	< 1	102,774.4	2	36.0	< 1	33,815.3	< 1	15,441.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,483.1	< 1	38.7	< 1	0.0	0	905.5	< 1
Total	134,215.7	2	78,111.9	1	7,157.3	< 1	105,257.5	2	33,590.3	< 1	35,873.8	< 1	108,362.1	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,717.2	< 1	11.4	< 1	8,944.6	< 1	221.0	< 1	0.0	0	61,498.1	< 1
Status 2	0.0	0	164.6	< 1	1,837.4	< 1	6,342.2	< 1	0.0	0	322.0	< 1	245,049.8	4
Status 3	12,626.0	< 1	0.0	0	1,714.1	< 1	12,029.5	< 1	2,641.4	< 1	0.0	0	249,165.0	4
Status 4	0.0	0	0.0	0	89.7	< 1	490.0	< 1	1,007.8	< 1	6,169,914.4	92	6,174,929.2	92
Total	12,626.0	< 1	9,881.8	< 1	3,652.7	< 1	27,806.2	< 1	3,870.3	< 1	6,170,236.4	92	6,730,642.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LEAST SHREW
Scientific Name: *CRYPTOTIS PARVA*

ITIS TSN: 179971
NS EICode: AMABA04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,821.3	< 1	24,536.1	< 1	89,350.1	1	0.0	0	13,883.6	< 1	17.5	< 1	3,212.0	< 1
Status 2	31,840.4	< 1	0.0	0	19,519.2	< 1	0.0	0	19,558.3	< 1	597.7	< 1	38,502.7	< 1
Status 3	0.0	0	380,027.9	5	4,048.0	< 1	59,902.9	< 1	14.6	< 1	13,256.5	< 1	11,252.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,168.8	< 1	30.6	< 1	0.0	0	715.1	< 1
Total	33,661.7	< 1	404,564.0	6	112,917.3	2	61,071.8	< 1	33,487.0	< 1	13,871.6	< 1	53,682.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,443.2	< 1	8.5	< 1	3,994.1	< 1	162.8	< 1	0.0	0	139,429.2	2
Status 2	629.6	< 1	150.7	< 1	8,130.9	< 1	3,287.4	< 1	0.0	0	12.2	< 1	122,229.0	2
Status 3	8,027.8	< 1	0.0	0	1,506.8	< 1	5,052.2	< 1	2,141.6	< 1	0.0	0	485,231.0	7
Status 4	0.0	0	0.0	0	54.8	< 1	674.7	< 1	811.7	< 1	6,467,765.8	90	6,471,221.5	90
Total	8,657.4	< 1	2,593.9	< 1	9,700.9	< 1	13,008.4	< 1	3,116.2	< 1	6,467,778.0	90	7,218,110.6	100

Common Name: HAIRY-TAILED MOLE
Scientific Name: *PARASCALOPS BREWERI*

ITIS TSN: 179977
NS EICode: AMABB03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	23,048.8	2	96,051.5	7	0.0	0	268.9	< 1	0.0	0	325.8	< 1
Status 2	0.0	0	0.0	0	15,012.5	1	0.0	0	2,752.5	< 1	25.2	< 1	3,760.2	< 1
Status 3	0.0	0	299,494.1	21	100.9	< 1	0.0	0	0.0	0	47.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	322,542.9	22	111,164.9	8	0.0	0	3,021.4	< 1	72.6	< 1	4,086.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,762.9	< 1	1.3	< 1	0.0	0	121,459.2	8
Status 2	671.6	< 1	0.0	0	7,040.4	< 1	1,001.0	< 1	0.0	0	0.0	0	30,263.3	2
Status 3	1,897.2	< 1	0.0	0	0.0	0	3,277.7	< 1	0.0	0	0.0	0	304,817.3	21
Status 4	0.0	0	0.0	0	0.0	0	383.9	< 1	156.6	< 1	1,000,165.1	69	1,000,705.7	69
Total	2,568.8	< 1	0.0	0	7,040.4	< 1	6,425.6	< 1	157.9	< 1	1,000,165.1	69	1,457,245.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN MOLE
Scientific Name: SCALOPUS AQUATICUS

ITIS TSN: 179979
NS EICode: AMABB04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.7	< 1	9,904.7	< 1	38,268.3	< 1	0.0	0	10,122.5	< 1	5.3	< 1	1,875.2	< 1
Status 2	13,849.1	< 1	0.0	0	8,456.3	< 1	0.0	0	17,745.5	< 1	579.9	< 1	29,854.0	< 1
Status 3	0.0	0	233,830.4	4	1,130.9	< 1	44,712.3	< 1	14.6	< 1	12,066.2	< 1	10,903.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	615.9	< 1	30.6	< 1	0.0	0	697.8	< 1
Total	13,853.8	< 1	243,735.0	4	47,855.4	< 1	45,328.1	< 1	27,913.1	< 1	12,651.4	< 1	43,330.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	881.6	< 1	8.5	< 1	1,859.4	< 1	149.9	< 1	0.0	0	63,080.0	< 1
Status 2	560.3	< 1	4.6	< 1	3,877.3	< 1	2,220.8	< 1	0.0	0	12.4	< 1	77,160.2	1
Status 3	7,164.7	< 1	0.0	0	1,506.8	< 1	2,226.3	< 1	2,107.3	< 1	0.0	0	315,662.9	5
Status 4	0.0	0	0.0	0	53.1	< 1	554.0	< 1	805.4	< 1	6,075,811.6	93	6,078,568.3	93
Total	7,725.1	< 1	886.2	< 1	5,445.6	< 1	6,860.4	< 1	3,062.5	< 1	6,075,824.0	93	6,534,471.3	100

Common Name: STAR-NOSED MOLE
Scientific Name: CONDYLURA CRISTATA

ITIS TSN: 179964
NS EICode: AMABB05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.3	< 1	306.7	< 1	673.9	< 1	0.0	0	7,892.0	< 1	903.3	< 1	6,052.1	< 1
Status 2	98,803.4	8	0.0	0	776.0	< 1	0.0	0	3,730.8	< 1	794.6	< 1	31,978.9	3
Status 3	0.0	0	5,907.8	< 1	32.7	< 1	23,790.0	2	22.9	< 1	1,521.5	< 1	3,076.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	69.1	< 1	0.2	< 1	0.0	0	276.2	< 1
Total	98,804.7	8	6,214.5	< 1	1,482.6	< 1	23,859.1	2	11,645.8	< 1	3,219.4	< 1	41,383.4	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,103.7	< 1	15.7	< 1	6,435.5	< 1	0.4	< 1	0.0	0	29,384.5	2
Status 2	45.0	< 1	0.0	0	163.4	< 1	3,795.4	< 1	0.0	0	304.1	< 1	140,391.5	12
Status 3	7,202.8	< 1	0.0	0	357.0	< 1	9,040.9	< 1	83.3	< 1	0.0	0	51,035.0	4
Status 4	0.0	0	0.0	0	11.4	< 1	61.0	< 1	372.2	< 1	970,120.9	81	970,911.0	81
Total	7,247.8	< 1	7,103.7	< 1	547.5	< 1	19,332.7	2	455.9	< 1	970,425.0	81	1,191,722.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LITTLE BROWN BAT
Scientific Name: MYOTIS LUCIFUGUS

ITIS TSN: 179988
NS EICode: AMACC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	29,120.0	< 1	111,227.6	2	0.0	0	13,348.0	< 1	0.0	0	1,973.4	< 1
Status 2	3,629.4	< 1	0.0	0	19,973.2	< 1	0.0	0	19,445.3	< 1	357.0	< 1	37,194.8	< 1
Status 3	0.0	0	408,501.0	6	196.9	< 1	940.7	< 1	0.0	0	1,244.3	< 1	12,506.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,460.6	< 1	46.8	< 1	0.0	0	0.0	0
Total	3,629.4	< 1	437,621.0	7	131,397.7	2	3,401.3	< 1	32,840.1	< 1	1,601.4	< 1	51,675.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	35.4	< 1	3,229.8	< 1	1.4	< 1	0.0	0	158,935.5	2
Status 2	720.5	< 1	0.0	0	9,864.7	< 1	1,702.7	< 1	0.0	0	0.0	0	92,887.7	1
Status 3	3,618.1	< 1	0.0	0	2,231.0	< 1	4,956.6	< 1	1,918.8	< 1	0.0	0	436,114.3	7
Status 4	0.0	0	0.0	0	0.0	0	729.7	< 1	973.9	< 1	5,760,367.0	89	5,764,578.0	89
Total	4,338.6	< 1	0.0	0	12,131.1	< 1	10,618.8	< 1	2,894.0	< 1	5,760,367.0	89	6,452,515.5	100

Common Name: SOUTHEASTERN BAT
Scientific Name: MYOTIS AUSTRORIPARIUS

ITIS TSN: 179993
NS EICode: AMACC01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	2,977.3	< 1	0.0	0	2,327.6	< 1
Status 2	5,964.3	< 1	0.0	0	0.0	0	0.0	0	5,541.4	< 1	0.0	0	17,860.1	1
Status 3	0.0	0	0.0	0	40.1	< 1	22,578.9	2	0.0	0	362.3	< 1	7,915.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,820.0	< 1	0.0	0	0.0	0	0.0	0
Total	5,964.3	< 1	0.0	0	40.1	< 1	25,398.9	2	8,518.7	< 1	362.3	< 1	28,103.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	854.6	< 1	35.2	< 1	1,502.4	< 1	126.8	< 1	0.0	0	7,823.9	< 1
Status 2	0.0	0	0.0	0	192.2	< 1	573.3	< 1	0.0	0	0.0	0	30,131.4	2
Status 3	2,035.9	< 1	0.0	0	1,016.9	< 1	7,044.1	< 1	1,547.3	< 1	0.0	0	42,541.0	3
Status 4	0.0	0	0.0	0	22.9	< 1	1.2	< 1	424.1	< 1	1,376,388.3	94	1,379,656.4	94
Total	2,035.9	< 1	854.6	< 1	1,267.2	< 1	9,121.0	< 1	2,098.2	< 1	1,376,388.3	94	1,460,152.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: INDIANA BAT
Scientific Name: MYOTIS SODALIS

ITIS TSN: 180001
NS EICode: AMACC01100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,022.8	1	98,414.7	12	0.0	0	24.5	< 1	0.0	0	1,854.9	< 1
Status 2	0.0	0	0.0	0	5,037.8	< 1	0.0	0	2,910.2	< 1	0.0	0	12,371.8	2
Status 3	0.0	0	135,374.0	17	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	109.4	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	145,396.8	18	103,452.5	13	109.4	< 1	2,934.7	< 1	0.0	0	14,226.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	453.8	< 1	0.0	0	0.0	0	110,770.7	14
Status 2	0.0	0	0.0	0	7,361.5	< 1	236.6	< 1	0.0	0	0.0	0	27,917.8	3
Status 3	0.0	0	0.0	0	0.0	0	115.6	< 1	0.0	0	0.0	0	135,489.6	17
Status 4	0.0	0	0.0	0	0.0	0	480.5	< 1	0.0	0	543,964.7	66	544,554.5	67
Total	0.0	0	0.0	0	7,361.5	< 1	1,286.5	< 1	0.0	0	543,964.7	66	818,732.6	100

Common Name: EASTERN SMALL-FOOTED BAT
Scientific Name: MYOTIS LEIBII

ITIS TSN: 179999
NS EICode: AMACC01130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,647.5	< 1	86,398.8	6	0.0	0	4,155.3	< 1	0.0	0	753.6	< 1
Status 2	0.0	0	0.0	0	14,150.3	1	0.0	0	2,375.9	< 1	26.0	< 1	13,810.0	1
Status 3	0.0	0	176,232.5	13	106.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	124.7	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	181,880.0	13	100,655.4	7	124.7	< 1	6,531.2	< 1	26.0	< 1	14,563.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,259.9	< 1	1.3	< 1	0.0	0	98,216.4	7
Status 2	718.7	< 1	0.0	0	7,606.9	< 1	400.6	< 1	0.0	0	0.0	0	39,088.4	3
Status 3	2,030.5	< 1	0.0	0	0.0	0	3,608.5	< 1	0.0	0	0.0	0	181,977.7	13
Status 4	0.0	0	0.0	0	0.0	0	501.8	< 1	169.7	< 1	1,053,955.1	77	1,054,751.2	77
Total	2,749.2	< 1	0.0	0	7,606.9	< 1	5,770.7	< 1	171.0	< 1	1,053,955.1	77	1,374,033.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN BAT

Scientific Name: *MYOTIS SEPTENTRIONALIS*

ITIS TSN: 180000

NS EICode: AMACC01150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	27,026.3	2	86,398.8	6	0.0	0	24.7	< 1	0.0	0	1,875.6	< 1
Status 2	0.0	0	0.0	0	10,486.0	< 1	0.0	0	3,811.1	< 1	26.0	< 1	12,678.8	< 1
Status 3	0.0	0	305,036.1	21	106.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	124.8	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	332,062.4	23	96,991.0	7	124.8	< 1	3,835.8	< 1	26.0	< 1	14,554.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,193.9	< 1	1.4	< 1	0.0	0	116,520.6	8
Status 2	718.7	< 1	0.0	0	7,607.0	< 1	545.7	< 1	0.0	0	0.0	0	35,873.3	2
Status 3	2,030.5	< 1	0.0	0	0.0	0	3,608.5	< 1	0.0	0	0.0	0	310,781.3	21
Status 4	0.0	0	0.0	0	0.0	0	606.2	< 1	0.0	0	995,654.5	68	996,385.5	68
Total	2,749.2	< 1	0.0	0	7,607.0	< 1	5,954.1	< 1	1.4	< 1	995,654.5	68	1,459,560.6	100

Common Name: EASTERN PIPISTRELLE

Scientific Name: *PIPISTRELLUS SUBFLAVUS*

ITIS TSN: 180025

NS EICode: AMACC03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,736.4	< 1	5,648.1	< 1	0.0	0	2,944.7	< 1	214.4	< 1	504.5	< 1
Status 2	60,958.2	1	0.0	0	4,888.4	< 1	0.0	0	4,230.4	< 1	212.8	< 1	43,779.5	< 1
Status 3	0.0	0	63,837.2	1	2,282.6	< 1	111,200.5	2	22.1	< 1	22,569.6	< 1	23,121.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,675.0	< 1	5.5	< 1	0.0	0	973.1	< 1
Total	60,984.0	1	78,573.6	2	12,819.2	< 1	112,875.5	3	7,202.6	< 1	22,996.7	< 1	68,378.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,721.2	< 1	17.2	< 1	6,407.4	< 1	178.9	< 1	0.0	0	33,398.6	< 1
Status 2	80.4	< 1	60.2	< 1	1,021.7	< 1	1,952.6	< 1	0.0	0	50.9	< 1	117,235.1	3
Status 3	9,991.8	< 1	0.0	0	981.5	< 1	2,578.9	< 1	1,145.5	< 1	0.0	0	237,731.1	5
Status 4	0.0	0	0.0	0	150.6	< 1	134.8	< 1	279.7	< 1	4,061,971.5	91	4,065,190.2	91
Total	10,072.2	< 1	2,781.4	< 1	2,171.0	< 1	11,073.7	< 1	1,604.2	< 1	4,062,022.5	91	4,453,555.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BIG BROWN BAT
Scientific Name: *EPTESICUS FUSCUS*

ITIS TSN: 180008
NS EICode: AMACC04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,841.9	< 1	41,734.6	< 1	111,190.1	< 1	0.0	0	25,775.8	< 1	913.1	< 1	9,128.3	< 1
Status 2	138,336.5	1	0.0	0	23,769.9	< 1	0.0	0	27,597.4	< 1	1,589.9	< 1	97,805.3	< 1
Status 3	0.0	0	458,394.6	4	4,625.6	< 1	154,793.0	1	51.6	< 1	34,969.3	< 1	32,381.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,996.7	< 1	47.3	< 1	0.0	0	1,649.0	< 1
Total	140,178.4	1	500,129.2	4	139,585.6	1	157,789.7	1	53,472.1	< 1	37,472.4	< 1	140,963.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,733.6	< 1	13.7	< 1	11,782.0	< 1	244.5	< 1	0.0	0	212,357.7	2
Status 2	719.3	< 1	169.2	< 1	9,805.7	< 1	8,146.9	< 1	0.0	0	338.4	< 1	308,278.4	2
Status 3	17,831.2	< 1	0.0	0	2,241.3	< 1	16,600.1	< 1	4,431.2	< 1	0.0	0	726,319.3	6
Status 4	0.0	0	0.0	0	127.0	< 1	845.0	< 1	1,632.6	< 1	11,222,541.8	90	11,229,839.4	90
Total	18,550.4	< 1	9,902.8	< 1	12,187.6	< 1	37,374.0	< 1	6,308.4	< 1	11,222,880.2	90	12,476,794.8	100

Common Name: EASTERN RED BAT
Scientific Name: *LASIURUS BOREALIS*

ITIS TSN: 180016
NS EICode: AMACC05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,736.4	< 1	5,648.1	< 1	0.0	0	2,944.7	< 1	214.4	< 1	504.5	< 1
Status 2	60,958.2	1	0.0	0	4,888.4	< 1	0.0	0	4,230.4	< 1	212.8	< 1	43,779.5	< 1
Status 3	0.0	0	63,837.2	1	2,282.6	< 1	111,200.5	2	22.1	< 1	22,569.6	< 1	23,121.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,675.0	< 1	5.5	< 1	0.0	0	973.1	< 1
Total	60,984.0	1	78,573.6	2	12,819.2	< 1	112,875.5	3	7,202.6	< 1	22,996.7	< 1	68,378.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,721.2	< 1	17.2	< 1	6,407.4	< 1	178.9	< 1	0.0	0	33,398.6	< 1
Status 2	80.4	< 1	60.2	< 1	1,021.7	< 1	1,952.6	< 1	0.0	0	50.9	< 1	117,235.1	3
Status 3	9,991.8	< 1	0.0	0	981.5	< 1	2,578.9	< 1	1,145.5	< 1	0.0	0	237,731.1	5
Status 4	0.0	0	0.0	0	150.6	< 1	134.8	< 1	279.7	< 1	4,061,971.5	91	4,065,190.2	91
Total	10,072.2	< 1	2,781.4	< 1	2,171.0	< 1	11,073.7	< 1	1,604.2	< 1	4,062,022.5	91	4,453,555.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SEMINOLE BAT
Scientific Name: LASIURUS SEMINOLUS

ITIS TSN: 180020
NS EICode: AMACC05020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,875.5	< 1	12,651.7	< 1	0.0	0	0.0	0	4,211.9	< 1	916.6	< 1	3,005.6	< 1
Status 2	117,600.3	3	0.0	0	3,948.3	< 1	0.0	0	5,404.7	< 1	977.9	< 1	51,070.6	1
Status 3	0.0	0	50,546.8	1	2,737.3	< 1	143,267.9	3	51.8	< 1	33,902.6	< 1	23,721.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	575.1	< 1	0.4	< 1	0.0	0	1,426.0	< 1
Total	119,475.8	3	63,198.5	2	6,685.6	< 1	143,843.0	3	9,668.7	< 1	35,797.1	< 1	79,224.0	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,988.7	< 1	0.0	0	7,224.8	< 1	243.2	< 1	0.0	0	39,117.9	< 1
Status 2	0.0	0	170.6	< 1	92.1	< 1	6,174.3	< 1	0.0	0	339.4	< 1	185,778.1	4
Status 3	14,291.4	< 1	0.0	0	362.0	< 1	4,944.8	< 1	2,262.9	< 1	0.0	0	276,089.1	7
Status 4	0.0	0	0.0	0	131.3	< 1	135.3	< 1	655.5	< 1	3,647,655.0	88	3,650,578.5	88
Total	14,291.4	< 1	9,159.2	< 1	585.4	< 1	18,479.1	< 1	3,161.5	< 1	3,647,994.4	88	4,151,563.6	100

Common Name: EVENING BAT
Scientific Name: NYCTICEIUS HUMERALIS

ITIS TSN: 180022
NS EICode: AMACC06010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	58.9	< 1	41,771.5	< 1	111,210.6	< 1	0.0	0	25,060.3	< 1	913.2	< 1	8,790.1	< 1
Status 2	130,181.4	1	0.0	0	17,526.6	< 1	0.0	0	26,814.9	< 1	1,592.2	< 1	93,812.9	< 1
Status 3	0.0	0	433,945.2	4	2,038.4	< 1	151,906.7	1	52.0	< 1	35,146.6	< 1	32,705.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,495.0	< 1	47.4	< 1	0.0	0	1,688.0	< 1
Total	130,240.3	1	475,716.7	4	130,775.6	1	154,401.7	1	51,974.6	< 1	37,652.0	< 1	136,996.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,520.6	< 1	35.4	< 1	9,542.1	< 1	244.5	< 1	0.0	0	206,147.2	2
Status 2	720.1	< 1	30.3	< 1	9,988.7	< 1	7,621.5	< 1	0.0	0	339.2	< 1	288,627.7	2
Status 3	17,913.5	< 1	0.0	0	2,598.8	< 1	12,592.4	< 1	4,461.2	< 1	0.0	0	693,359.8	6
Status 4	0.0	0	0.0	0	132.8	< 1	846.8	< 1	1,638.7	< 1	11,036,380.2	90	11,043,229.0	90
Total	18,633.6	< 1	8,550.9	< 1	12,755.5	< 1	30,602.7	< 1	6,344.5	< 1	11,036,719.4	90	12,231,363.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: TOWNSEND'S BIG-EARED BAT
Scientific Name: CORYNORHINUS TOWNSENDII

ITIS TSN: 203452
NS EICode: AMACC08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	150.1	< 1	0.0	0	0.0	0	95.5	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	7,712.1	1	0.0	0	614.7	< 1	26.6	< 1	773.3	< 1
Status 3	0.0	0	89,644.4	17	0.0	0	71.3	< 1	0.0	0	65.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	89,794.5	17	7,712.1	1	71.3	< 1	710.2	< 1	92.4	< 1	773.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,646.4	< 1	0.0	0	0.0	0	1,892.0	< 1
Status 2	0.0	0	0.0	0	5,763.1	1	97.4	< 1	0.0	0	0.0	0	14,987.1	3
Status 3	0.0	0	0.0	0	0.0	0	3,578.8	< 1	0.0	0	0.0	0	93,360.3	18
Status 4	0.0	0	0.0	0	0.0	0	76.0	< 1	0.0	0	417,982.5	79	418,058.5	79
Total	0.0	0	0.0	0	5,763.1	1	5,398.5	1	0.0	0	417,982.5	79	528,297.8	100

Common Name: RAFINESQUE'S BIG-EARED BAT
Scientific Name: CORYNORHINUS RAFINESQUII

ITIS TSN: 555664
NS EICode: AMACC08020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	25,126.0	< 1	99,814.1	2	0.0	0	7,635.5	< 1	336.6	< 1	5,390.7	< 1
Status 2	22,579.3	< 1	0.0	0	12,046.9	< 1	0.0	0	8,015.9	< 1	925.3	< 1	18,742.2	< 1
Status 3	0.0	0	384,281.4	7	320.5	< 1	35,378.4	< 1	46.4	< 1	13,989.2	< 1	4,375.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	147.8	< 1	0.6	< 1	0.0	0	997.8	< 1
Total	22,579.3	< 1	409,407.4	7	112,181.5	2	35,526.2	< 1	15,698.5	< 1	15,251.1	< 1	29,505.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	723.6	< 1	0.0	0	2,920.2	< 1	157.3	< 1	0.0	0	142,104.2	3
Status 2	674.7	< 1	0.0	0	7,080.5	< 1	3,427.4	< 1	0.0	0	140.9	< 1	73,633.1	1
Status 3	7,785.2	< 1	0.0	0	163.8	< 1	12,109.6	< 1	2,435.9	< 1	0.0	0	460,885.5	8
Status 4	0.0	0	0.0	0	97.2	< 1	495.4	< 1	548.2	< 1	4,853,154.8	88	4,855,441.8	88
Total	8,459.9	< 1	723.6	< 1	7,341.5	< 1	18,952.6	< 1	3,141.5	< 1	4,853,295.7	88	5,532,064.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BRAZILIAN FREE-TAILED BAT
Scientific Name: TADARIDA BRASILIENSIS

ITIS TSN: 180088
NS EICode: AMACD01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,704.9	< 1	0.0	0	0.0	0	4,722.9	< 1	0.0	0	3,004.8	< 1
Status 2	7,916.0	< 1	0.0	0	5,378.0	< 1	0.0	0	7,316.5	< 1	1,206.8	< 1	36,267.1	< 1
Status 3	0.0	0	65,944.5	2	1,815.7	< 1	131,313.2	3	44.5	< 1	32,307.2	< 1	24,002.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	599.6	< 1	0.6	< 1	0.0	0	1,263.0	< 1
Total	7,916.0	< 1	80,649.5	2	7,193.7	< 1	131,912.8	3	12,084.5	< 1	33,514.0	< 1	64,536.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,124.6	< 1	13.7	< 1	7,156.4	< 1	243.2	< 1	0.0	0	30,970.5	< 1
Status 2	0.0	0	173.9	< 1	488.3	< 1	2,064.9	< 1	0.0	0	0.0	0	60,811.4	1
Status 3	14,939.9	< 1	0.0	0	687.9	< 1	3,421.4	< 1	1,117.7	< 1	0.0	0	275,594.0	6
Status 4	0.0	0	0.0	0	129.8	< 1	135.3	< 1	0.0	0	3,877,579.6	91	3,879,707.9	91
Total	14,939.9	< 1	1,298.4	< 1	1,319.6	< 1	12,777.9	< 1	1,360.9	< 1	3,877,579.6	91	4,247,083.7	100

Common Name: MARSH RABBIT

Scientific Name: SYLVILAGUS PALUSTRIS

ITIS TSN: 180120

NS EICode: AMAEB01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,821.4	< 1	12,022.8	< 1	0.0	0	0.0	0	11,686.4	< 1	909.5	< 1	6,614.4	< 1
Status 2	123,142.2	7	0.0	0	3,536.3	< 1	0.0	0	4,888.8	< 1	806.4	< 1	59,349.3	3
Status 3	0.0	0	35,256.6	2	2,837.1	< 1	58,476.9	3	21.9	< 1	20,602.5	1	5,676.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,471.5	< 1	0.0	0	0.0	0	211.4	< 1
Total	124,963.7	7	47,279.4	3	6,373.4	< 1	60,948.4	4	16,597.1	< 1	22,318.4	1	71,851.9	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,699.1	< 1	5.4	< 1	7,599.6	< 1	58.3	< 1	0.0	0	49,416.9	3
Status 2	0.0	0	161.0	< 1	333.2	< 1	4,604.9	< 1	0.0	0	306.2	< 1	197,128.4	12
Status 3	6,973.0	< 1	0.0	0	342.5	< 1	10,016.6	< 1	301.1	< 1	0.0	0	140,505.0	8
Status 4	0.0	0	0.0	0	35.1	< 1	48.2	< 1	334.5	< 1	1,314,170.3	77	1,317,271.0	77
Total	6,973.0	< 1	8,860.1	< 1	716.2	< 1	22,269.3	1	694.0	< 1	1,314,476.5	77	1,704,321.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN COTTONTAIL
Scientific Name: SYLVILAGUS FLORIDANUS

ITIS TSN: 180124
NS EICode: AMAEB01040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.6	< 1	14,707.4	< 1	5,612.9	< 1	0.0	0	2,851.5	< 1	213.6	< 1	451.9	< 1
Status 2	59,473.0	1	0.0	0	4,795.9	< 1	0.0	0	3,953.3	< 1	209.7	< 1	43,351.4	1
Status 3	0.0	0	63,147.5	1	2,212.2	< 1	109,306.0	3	21.5	< 1	22,489.7	< 1	22,882.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,552.5	< 1	5.4	< 1	0.0	0	952.0	< 1
Total	59,498.6	1	77,854.9	2	12,621.0	< 1	110,858.5	3	6,831.6	< 1	22,913.0	< 1	67,637.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,683.6	< 1	7.1	< 1	6,374.8	< 1	178.8	< 1	0.0	0	33,107.0	< 1
Status 2	79.1	< 1	43.1	< 1	951.5	< 1	1,906.3	< 1	0.0	0	50.7	< 1	114,813.9	3
Status 3	9,934.5	< 1	0.0	0	786.9	< 1	2,485.1	< 1	1,115.4	< 1	0.0	0	234,381.0	5
Status 4	0.0	0	0.0	0	94.1	< 1	115.7	< 1	274.5	< 1	3,946,256.6	91	3,949,250.9	91
Total	10,013.6	< 1	2,726.7	< 1	1,839.6	< 1	10,881.9	< 1	1,568.7	< 1	3,946,307.2	91	4,331,552.8	100

Common Name: APPALACHIAN COTTONTAIL
Scientific Name: SYLVILAGUS OBSCURUS

ITIS TSN: 552514
NS EICode: AMAEB01090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,058.9	7	10,813.9	39	0.0	0	0.9	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,653.8	6	0.0	0	593.5	2	0.0	0	16.5	< 1
Status 3	0.0	0	5,838.8	21	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	7,897.7	28	12,467.6	44	0.0	0	594.4	2	< 0.1	< 1	16.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	308.0	1	0.0	0	0.0	0	13,181.7	47
Status 2	6.5	< 1	0.0	0	455.9	2	4.3	< 1	0.0	0	0.0	0	2,730.5	10
Status 3	15.5	< 1	0.0	0	0.0	0	882.4	3	0.0	0	0.0	0	6,736.7	24
Status 4	0.0	0	0.0	0	0.0	0	1.6	< 1	0.5	< 1	5,395.1	19	5,397.3	19
Total	22.0	< 1	0.0	0	455.9	2	1,196.3	4	0.5	< 1	5,395.1	19	28,046.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN CHIPMUNK

Scientific Name: *TAMIAS STRIATUS*

ITIS TSN: 180207

NS EICode: AMAFB02230

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	24,982.2	< 1	94,343.7	2	0.0	0	7,854.6	< 1	0.0	0	2,233.0	< 1
Status 2	1,674.8	< 1	0.0	0	15,089.9	< 1	0.0	0	12,236.0	< 1	226.9	< 1	20,639.3	< 1
Status 3	0.0	0	368,772.8	10	111.8	< 1	3,593.2	< 1	0.0	0	542.3	< 1	3,573.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	432.5	< 1	27.9	< 1	0.0	0	39.1	< 1
Total	1,674.8	< 1	393,755.0	10	109,545.4	3	4,025.7	< 1	20,118.5	< 1	769.2	< 1	26,484.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	24.2	< 1	5.8	< 1	2,403.8	< 1	0.3	< 1	0.0	0	131,847.5	3
Status 2	578.3	< 1	0.0	0	7,909.7	< 1	1,291.9	< 1	0.0	0	0.0	0	59,646.7	2
Status 3	2,555.0	< 1	0.0	0	762.6	< 1	3,345.0	< 1	622.3	< 1	0.0	0	383,878.3	10
Status 4	0.0	0	0.0	0	0.0	0	591.7	< 1	448.2	< 1	3,298,885.5	85	3,300,424.8	85
Total	3,133.3	< 1	24.2	< 1	8,678.0	< 1	7,632.4	< 1	1,070.7	< 1	3,298,885.5	85	3,875,797.3	100

Common Name: WOODCHUCK

Scientific Name: *MARMOTA MONAX*

ITIS TSN: 180137

NS EICode: AMAFB03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	706.1	< 1	1,559.4	< 1	0.0	0	1,293.4	< 1	0.0	0	114.0	< 1
Status 2	225.3	< 1	0.0	0	1,557.2	< 1	0.0	0	1,677.5	< 1	109.7	< 1	3,340.6	< 1
Status 3	0.0	0	16,945.4	1	25.2	< 1	455.0	< 1	0.4	< 1	76.2	< 1	544.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	84.0	< 1	6.2	< 1	0.0	0	125.7	< 1
Total	225.3	< 1	17,651.4	1	3,141.8	< 1	539.0	< 1	2,977.5	< 1	185.9	< 1	4,125.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.2	< 1	199.6	< 1	< 0.1	< 1	0.0	0	3,872.8	< 1
Status 2	54.1	< 1	0.0	0	398.4	< 1	185.1	< 1	0.0	0	0.0	0	7,547.9	< 1
Status 3	206.6	< 1	0.0	0	166.8	< 1	353.1	< 1	755.1	< 1	0.0	0	19,528.6	1
Status 4	0.0	0	0.0	0	0.0	0	45.1	< 1	285.2	< 1	1,528,190.6	98	1,528,736.8	98
Total	260.6	< 1	0.0	0	565.4	< 1	782.9	< 1	1,040.4	< 1	1,528,190.6	98	1,559,686.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN GRAY SQUIRREL
Scientific Name: *SCIURUS CAROLINENSIS*

ITIS TSN: 180175
NS EICode: AMAFB07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.1	< 1	24,887.3	< 1	93,443.6	2	0.0	0	9,903.5	< 1	15.0	< 1	2,570.3	< 1
Status 2	8,772.2	< 1	0.0	0	14,789.9	< 1	0.0	0	15,629.3	< 1	1,063.8	< 1	29,707.0	< 1
Status 3	0.0	0	369,660.0	7	1,121.5	< 1	21,829.0	< 1	31.2	< 1	2,929.9	< 1	6,004.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	836.0	< 1	41.5	< 1	0.0	0	215.0	< 1
Total	8,775.3	< 1	394,547.3	7	109,355.0	2	22,665.0	< 1	25,605.5	< 1	4,008.7	< 1	38,497.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	886.8	< 1	6.8	< 1	2,961.9	< 1	105.9	< 1	0.0	0	134,784.2	2
Status 2	568.2	< 1	7.0	< 1	8,353.4	< 1	2,196.6	< 1	0.0	0	33.7	< 1	81,121.1	1
Status 3	4,208.5	< 1	0.0	0	1,187.5	< 1	4,528.9	< 1	1,237.3	< 1	0.0	0	412,738.6	8
Status 4	0.0	0	0.0	0	28.0	< 1	651.6	< 1	821.3	< 1	4,792,320.8	88	4,794,914.2	88
Total	4,776.7	< 1	893.8	< 1	9,575.6	< 1	10,339.0	< 1	2,164.5	< 1	4,792,354.5	88	5,423,558.0	100

Common Name: EASTERN FOX SQUIRREL
Scientific Name: *SCIURUS NIGER*

ITIS TSN: 180172
NS EICode: AMAFB07040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	729.8	< 1	0.0	0	0.0	0
Status 2	167.7	< 1	0.0	0	1,105.5	< 1	0.0	0	400.1	< 1	24.7	< 1	1,138.8	< 1
Status 3	0.0	0	430.7	< 1	8.4	< 1	39,680.1	13	0.0	0	52.5	< 1	14,732.9	5
Status 4	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	0.0	0	389.4	< 1
Total	167.7	< 1	430.7	< 1	1,113.8	< 1	39,680.2	13	1,130.0	< 1	77.1	< 1	16,261.1	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.2	< 1	517.5	< 1	0.0	0	0.0	0	1,247.5	< 1
Status 2	0.0	0	0.0	0	0.8	< 1	107.7	< 1	0.0	0	0.0	0	2,945.3	< 1
Status 3	1,844.1	< 1	0.0	0	160.7	< 1	395.6	< 1	0.0	0	0.0	0	57,305.0	19
Status 4	0.0	0	0.0	0	5.9	< 1	4.3	< 1	2.9	< 1	246,788.6	80	247,191.1	80
Total	1,844.1	< 1	0.0	0	167.6	< 1	1,025.1	< 1	2.9	< 1	246,788.6	80	308,688.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED SQUIRREL

Scientific Name: TAMIASCIURUS HUDSONICUS

ITIS TSN: 180166

NS EICode: AMAFB08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	25,261.5	1	107,010.0	4	0.0	0	9,305.3	<1	0.0	0	1,854.7	<1
Status 2	70.3	<1	0.0	0	16,871.6	<1	0.0	0	9,079.2	<1	276.5	<1	21,575.3	<1
Status 3	0.0	0	369,744.0	15	139.9	<1	410.0	<1	0.0	0	63.6	<1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	68.2	<1	0.0	0	0.0	0	0.0	0
Total	70.3	<1	395,005.5	16	124,021.4	5	478.3	<1	18,384.5	<1	340.1	<1	23,430.1	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	2,151.7	<1	1.2	<1	0.0	0	145,584.4	6
Status 2	655.4	<1	0.0	0	7,432.2	<1	1,048.5	<1	0.0	0	0.0	0	57,009.0	2
Status 3	2,559.0	<1	0.0	0	0.0	0	3,280.8	<1	0.0	0	0.0	0	376,197.3	15
Status 4	0.0	0	0.0	0	0.0	0	576.0	<1	52.9	<1	1,904,656.8	77	1,905,353.9	77
Total	3,214.4	<1	0.0	0	7,432.2	<1	7,057.0	<1	54.1	<1	1,904,656.8	77	2,484,144.5	100

Common Name: SOUTHERN FLYING SQUIRREL

Scientific Name: GLAUCOMYS VOLANS

ITIS TSN: 180170

NS EICode: AMAFB09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.4	<1	25,841.8	<1	94,589.1	2	0.0	0	16,537.0	<1	369.8	<1	4,107.4	<1
Status 2	37,533.3	<1	0.0	0	15,608.5	<1	0.0	0	18,659.8	<1	1,130.6	<1	39,384.0	<1
Status 3	0.0	0	381,274.6	7	171.4	<1	27,554.9	<1	30.9	<1	4,579.1	<1	7,242.7	<1
Status 4	0.0	0	0.0	0	0.0	0	884.5	<1	43.1	<1	0.0	0	181.9	<1
Total	37,537.7	<1	407,116.4	7	110,369.0	2	28,439.4	<1	35,270.7	<1	6,079.5	<1	50,916.0	<1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,255.3	<1	8.3	<1	3,252.0	<1	27.5	<1	0.0	0	148,992.6	3
Status 2	625.1	<1	7.0	<1	8,515.3	<1	3,807.2	<1	0.0	0	204.0	<1	125,474.9	2
Status 3	4,795.9	<1	0.0	0	1,393.5	<1	4,816.8	<1	1,478.3	<1	0.0	0	433,337.9	8
Status 4	0.0	0	0.0	0	32.5	<1	683.8	<1	895.4	<1	4,881,229.8	87	4,883,951.1	87
Total	5,421.1	<1	4,262.3	<1	9,949.5	<1	12,559.8	<1	2,401.2	<1	4,881,433.9	87	5,591,756.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: NORTHERN FLYING SQUIRREL
Scientific Name: GLAUCOMYS SABRINUS

ITIS TSN: 180169
NS EICode: AMAFB09020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,814.2	8	9,335.3	42	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	1,311.3	6	0.0	0	444.0	2	0.0	0	9.8	< 1
Status 3	0.0	0	4,509.5	20	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	6,323.7	28	10,646.6	47	0.0	0	444.0	2	0.0	0	9.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	224.0	< 1	0.0	0	0.0	0	11,373.6	51
Status 2	0.0	0	0.0	0	479.1	2	0.0	0	0.0	0	0.0	0	2,244.2	10
Status 3	0.0	0	0.0	0	0.0	0	789.8	4	0.0	0	0.0	0	5,299.3	24
Status 4	0.0	0	0.0	0	0.0	0	8.5	< 1	0.0	0	3,511.0	16	3,519.5	16
Total	0.0	0	0.0	0	479.1	2	1,022.3	5	0.0	0	3,511.0	16	22,436.5	100

Common Name: AMERICAN BEAVER
Scientific Name: CASTOR CANADENSIS

ITIS TSN: 180212
NS EICode: AMAFE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,266.4	< 1	16,067.5	1	0.0	0	3,109.3	< 1	10.5	< 1	1,038.8	< 1
Status 2	13,015.4	< 1	0.0	0	1,932.4	< 1	0.0	0	5,493.9	< 1	380.9	< 1	11,099.4	< 1
Status 3	0.0	0	64,214.0	4	143.9	< 1	21,364.7	1	18.9	< 1	786.9	< 1	5,774.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,015.6	< 1	15.4	< 1	0.0	0	291.0	< 1
Total	13,015.4	< 1	68,480.4	4	18,143.8	1	23,380.3	1	8,637.5	< 1	1,178.3	< 1	18,203.6	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	652.4	< 1	31.8	< 1	691.8	< 1	27.4	< 1	0.0	0	25,895.9	2
Status 2	102.2	< 1	0.0	0	1,685.6	< 1	857.9	< 1	0.0	0	37.5	< 1	34,605.2	2
Status 3	1,223.1	< 1	0.0	0	1,093.0	< 1	1,512.8	< 1	521.6	< 1	0.0	0	96,653.3	6
Status 4	0.0	0	0.0	0	12.2	< 1	86.3	< 1	112.1	< 1	1,402,722.7	90	1,405,255.3	90
Total	1,325.3	< 1	652.4	< 1	2,822.6	< 1	3,148.8	< 1	661.1	< 1	1,402,760.3	90	1,562,409.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MARSH RICE RAT
Scientific Name: ORYZOMYS PALUSTRIS

ITIS TSN: 180336
NS EICode: AMAFF01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,871.2	< 1	12,009.2	< 1	0.0	0	0.0	0	11,503.7	< 1	906.7	< 1	6,688.8	< 1
Status 2	119,774.2	6	0.0	0	3,391.3	< 1	0.0	0	4,570.0	< 1	825.8	< 1	56,557.4	3
Status 3	0.0	0	34,749.9	2	2,863.4	< 1	57,511.8	3	25.4	< 1	20,694.1	1	4,609.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,363.0	< 1	0.2	< 1	0.0	0	360.6	< 1
Total	121,645.4	6	46,759.1	2	6,254.6	< 1	59,874.8	3	16,099.3	< 1	22,426.5	1	68,216.0	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,535.2	< 1	15.7	< 1	7,557.3	< 1	59.9	< 1	0.0	0	49,147.6	3
Status 2	0.0	0	168.0	< 1	95.5	< 1	4,575.6	< 1	0.0	0	314.9	< 1	190,272.7	10
Status 3	7,091.2	< 1	0.0	0	325.6	< 1	10,162.0	< 1	451.4	< 1	0.0	0	138,483.8	7
Status 4	0.0	0	0.0	0	49.3	< 1	60.9	< 1	420.2	< 1	1,581,110.1	81	1,584,364.3	81
Total	7,091.2	< 1	8,703.2	< 1	486.1	< 1	22,355.8	1	931.4	< 1	1,581,425.0	81	1,962,268.4	100

Common Name: EASTERN HARVEST MOUSE
Scientific Name: REITHRODONTOMYS HUMULIS

ITIS TSN: 180342
NS EICode: AMAFF02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.2	< 1	517.5	< 1	1,628.6	< 1	0.0	0	2,436.9	< 1	6.1	< 1	641.7	< 1
Status 2	26,733.5	< 1	0.0	0	6,348.5	< 1	0.0	0	2,210.6	< 1	231.0	< 1	9,068.0	< 1
Status 3	0.0	0	20,225.3	< 1	4,371.8	< 1	74,639.4	1	17.4	< 1	4,219.7	< 1	18,704.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	938.3	< 1	4.1	< 1	0.0	0	1,056.0	< 1
Total	28,570.7	< 1	20,742.8	< 1	12,348.9	< 1	75,577.8	2	4,668.9	< 1	4,456.9	< 1	29,469.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,383.7	< 1	0.0	0	1,592.0	< 1	156.2	< 1	0.0	0	10,199.8	< 1
Status 2	56.0	< 1	149.5	< 1	467.9	< 1	1,416.3	< 1	0.0	0	25.4	< 1	46,706.7	< 1
Status 3	4,757.3	< 1	0.0	0	502.3	< 1	1,886.3	< 1	2,531.8	< 1	0.0	0	131,855.3	3
Status 4	0.0	0	0.0	0	63.1	< 1	109.1	< 1	655.9	< 1	4,800,978.0	96	4,803,804.5	96
Total	4,813.3	< 1	1,533.2	< 1	1,033.3	< 1	5,003.7	< 1	3,343.9	< 1	4,801,003.4	96	4,992,566.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON DEER MOUSE

Scientific Name: PEROMYSCUS MANICULATUS

ITIS TSN: 180276

NS EICode: AMAFF03040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,893.4	2	29,923.1	8	0.0	0	971.7	< 1	0.0	0	318.7	< 1
Status 2	0.0	0	0.0	0	4,638.9	1	0.0	0	1,058.0	< 1	3.5	< 1	1,930.4	< 1
Status 3	0.0	0	89,554.4	25	13.1	< 1	3.3	< 1	0.0	0	14.8	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	23.3	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	98,447.9	27	34,575.1	10	26.6	< 1	2,029.7	< 1	18.3	< 1	2,249.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	624.7	< 1	1.2	< 1	0.0	0	40,732.8	11
Status 2	111.5	< 1	0.0	0	2,345.4	< 1	316.7	< 1	0.0	0	0.0	0	10,404.3	3
Status 3	422.6	< 1	0.0	0	0.0	0	1,298.3	< 1	0.0	0	0.0	0	91,306.5	26
Status 4	0.0	0	0.0	0	0.0	0	61.4	< 1	4.1	< 1	215,476.3	60	215,565.0	60
Total	534.0	< 1	0.0	0	2,345.4	< 1	2,301.1	< 1	5.2	< 1	215,476.3	60	358,008.7	100

Common Name: OLDFIELD MOUSE

Scientific Name: PEROMYSCUS POLIONOTUS

ITIS TSN: 180290

NS EICode: AMAFF03060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	7.7	< 1	0.0	0	1.6	< 1
Status 2	3.4	< 1	0.0	0	0.0	0	0.0	0	14.2	< 1	0.0	0	26.9	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	3.4	< 1	0.0	0	0.0	0	0.0	0	21.9	< 1	0.0	0	28.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	9.3	< 1
Status 2	0.0	0	0.0	0	0.7	< 1	0.0	0	0.0	0	0.0	0	45.3	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	13.2	< 1	0.0	0	106,539.5	100	106,552.7	100
Total	0.0	0	0.0	0	0.7	< 1	13.2	< 1	0.0	0	106,539.5	100	106,607.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WHITE-FOOTED MOUSE
Scientific Name: PEROMYSCUS LEUCOPUS

ITIS TSN: 180278
NS EICode: AMAFF03070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	41,124.0	< 1	111,187.9	< 1	0.0	0	22,598.6	< 1	589.8	< 1	3,020.2	< 1
Status 2	112,350.4	< 1	0.0	0	19,898.6	< 1	0.0	0	25,214.8	< 1	1,455.0	< 1	75,733.4	< 1
Status 3	0.0	0	452,424.9	4	1,746.5	< 1	139,996.7	1	49.5	< 1	34,394.0	< 1	31,844.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,113.3	< 1	47.3	< 1	0.0	0	1,611.2	< 1
Total	112,375.6	< 1	493,548.8	4	132,832.9	1	142,110.0	1	47,910.1	< 1	36,438.8	< 1	112,209.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,567.6	< 1	11.8	< 1	4,404.2	< 1	234.5	< 1	0.0	0	190,763.6	2
Status 2	719.3	< 1	0.2	< 1	9,793.5	< 1	6,920.7	< 1	0.0	0	261.4	< 1	252,347.2	2
Status 3	17,365.2	< 1	0.0	0	2,222.5	< 1	6,560.6	< 1	4,386.5	< 1	0.0	0	690,990.9	6
Status 4	0.0	0	0.0	0	103.1	< 1	836.0	< 1	1,625.2	< 1	10,418,824.6	90	10,425,160.6	90
Total	18,084.5	< 1	7,567.7	< 1	12,130.8	< 1	18,721.5	< 1	6,246.2	< 1	10,419,086.0	90	11,559,262.4	100

Common Name: COTTON MOUSE
Scientific Name: PEROMYSCUS GOSSYPINUS

ITIS TSN: 180279
NS EICode: AMAFF03080

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	12,626.8	< 1	0.0	0	0.0	0	11,257.4	< 1	909.6	< 1	6,682.1	< 1
Status 2	117,589.7	3	0.0	0	201.3	< 1	0.0	0	5,960.4	< 1	886.1	< 1	55,871.3	2
Status 3	0.0	0	49,471.4	1	1,375.1	< 1	128,796.4	4	35.8	< 1	32,753.1	< 1	22,705.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	22.3	< 1	0.2	< 1	0.0	0	1,096.8	< 1
Total	117,594.5	3	62,098.2	2	1,576.4	< 1	128,818.7	4	17,253.8	< 1	34,548.8	< 1	86,355.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,428.1	< 1	0.0	0	7,454.0	< 1	221.0	< 1	0.0	0	47,583.8	1
Status 2	0.0	0	24.2	< 1	107.1	< 1	5,383.9	< 1	0.0	0	321.0	< 1	186,345.1	5
Status 3	13,593.7	< 1	0.0	0	291.4	< 1	10,758.5	< 1	976.4	< 1	0.0	0	260,757.2	7
Status 4	0.0	0	0.0	0	88.7	< 1	80.5	< 1	703.4	< 1	3,004,422.7	86	3,006,414.5	86
Total	13,593.7	< 1	8,452.3	< 1	487.2	< 1	23,676.8	< 1	1,900.9	< 1	3,004,743.7	86	3,501,100.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GOLDEN MOUSE

Scientific Name: *OCHROTOMYS NUTTALLI*

ITIS TSN: 180379

NS EICode: AMAFF04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	39,111.4	< 1	98,878.5	1	0.0	0	21,603.2	< 1	589.6	< 1	4,895.9	< 1
Status 2	106,323.4	1	0.0	0	16,329.9	< 1	0.0	0	24,280.8	< 1	1,296.2	< 1	83,616.8	1
Status 3	0.0	0	432,050.8	6	1,464.1	< 1	69,529.8	< 1	32.7	< 1	31,912.7	< 1	12,675.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,006.6	< 1	43.8	< 1	0.0	0	546.6	< 1
Total	106,328.2	1	471,162.2	6	116,672.5	2	70,536.3	< 1	45,960.5	< 1	33,798.5	< 1	101,734.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,643.2	< 1	9.5	< 1	9,058.4	< 1	147.3	< 1	0.0	0	181,941.7	2
Status 2	656.0	< 1	17.0	< 1	8,960.6	< 1	6,029.5	< 1	0.0	0	244.2	< 1	247,754.3	3
Status 3	13,473.9	< 1	0.0	0	1,694.6	< 1	6,064.3	< 1	2,569.8	< 1	0.0	0	571,468.1	7
Status 4	0.0	0	0.0	0	70.4	< 1	731.8	< 1	999.5	< 1	6,655,525.7	87	6,658,924.4	87
Total	14,129.9	< 1	7,660.2	< 1	10,735.0	< 1	21,884.0	< 1	3,716.6	< 1	6,655,769.9	87	7,660,088.5	100

Common Name: HISPID COTTON RAT

Scientific Name: *SIGMODON HISPIDUS*

ITIS TSN: 180349

NS EICode: AMAFF07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,837.2	< 1	681.9	< 1	863.3	< 1	0.0	0	3,922.1	< 1	3.5	< 1	640.4	< 1
Status 2	22,480.6	< 1	0.0	0	5,764.3	< 1	0.0	0	4,080.3	< 1	266.6	< 1	11,962.0	< 1
Status 3	0.0	0	17,155.7	< 1	5,290.5	< 1	76,695.3	1	17.2	< 1	4,163.0	< 1	19,229.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	730.6	< 1	9.6	< 1	0.0	0	1,077.8	< 1
Total	24,317.7	< 1	17,837.6	< 1	11,918.1	< 1	77,425.9	1	8,029.3	< 1	4,433.1	< 1	32,910.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,618.7	< 1	0.4	< 1	1,655.5	< 1	156.1	< 1	0.0	0	11,379.1	< 1
Status 2	50.8	< 1	149.5	< 1	623.2	< 1	1,393.0	< 1	0.0	0	24.9	< 1	46,795.2	< 1
Status 3	4,807.2	< 1	0.0	0	645.4	< 1	1,972.1	< 1	2,616.9	< 1	0.0	0	132,593.2	2
Status 4	0.0	0	0.0	0	61.8	< 1	121.8	< 1	714.1	< 1	5,236,793.5	96	5,239,509.2	96
Total	4,858.0	< 1	1,768.2	< 1	1,330.7	< 1	5,142.3	< 1	3,487.1	< 1	5,236,818.4	96	5,430,276.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN WOODRAT
Scientific Name: NEOTOMA FLORIDANA

ITIS TSN: 180372
NS EICode: AMAFF08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	22,881.4	2	93,287.5	7	0.0	0	412.5	< 1	0.0	0	1,605.4	< 1
Status 2	157.1	< 1	0.0	0	6,428.4	< 1	0.0	0	4,213.9	< 1	154.6	< 1	9,486.4	< 1
Status 3	0.0	0	286,198.5	20	67.5	< 1	16,429.0	1	0.0	0	3,476.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	108.4	< 1	0.0	0	0.0	0	0.0	0
Total	157.1	< 1	309,079.9	22	99,783.5	7	16,537.3	1	4,626.4	< 1	3,631.1	< 1	11,091.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	125.6	< 1	0.0	0	417.3	< 1	122.8	< 1	0.0	0	118,852.5	8
Status 2	528.8	< 1	127.4	< 1	6,856.6	< 1	906.8	< 1	0.0	0	0.0	0	28,859.9	2
Status 3	1,464.2	< 1	0.0	0	0.0	0	3,194.0	< 1	0.0	0	0.0	0	310,829.6	22
Status 4	0.0	0	0.0	0	11.1	< 1	509.0	< 1	0.0	0	970,785.0	68	971,413.4	68
Total	1,993.0	< 1	253.0	< 1	6,867.6	< 1	5,027.0	< 1	122.8	< 1	970,785.0	68	1,429,955.4	100

Common Name: ALLEGHENY WOODRAT
Scientific Name: NEOTOMA MAGISTER

ITIS TSN: 555661
NS EICode: AMAFF08100

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	625.0	4	0.0	0	0.0	0	473.0	3	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	27.9	< 1	0.0	0	131.7	< 1	0.0	0	390.7	2
Status 3	0.0	0	5,986.7	36	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	6,611.7	40	27.9	< 1	0.0	0	604.6	4	0.0	0	390.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	23.1	< 1	0.0	0	0.0	0	1,121.0	7
Status 2	0.0	0	0.0	0	27.1	< 1	0.0	0	0.0	0	0.0	0	577.4	4
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	5,986.7	36
Status 4	0.0	0	0.0	0	0.0	0	1.4	< 1	0.0	0	8,725.1	53	8,726.5	53
Total	0.0	0	0.0	0	27.1	< 1	24.6	< 1	0.0	0	8,725.1	53	16,411.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN RED-BACKED VOLE
Scientific Name: CLETHRIONOMYS GAPPERI

ITIS TSN: 180294
NS EICode: AMAFF09020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,729.2	4	53,439.8	15	0.0	0	208.6	< 1	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	8,118.7	2	0.0	0	597.9	< 1	4.1	< 1	1,617.8	< 1
Status 3	0.0	0	107,682.8	30	0.0	0	0.0	0	0.0	0	45.5	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	122,412.0	35	61,558.5	17	0.0	0	806.5	< 1	49.5	< 1	1,617.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,467.6	< 1	0.0	0	0.0	0	69,845.2	20
Status 2	2.3	< 1	0.0	0	4,444.6	1	455.9	< 1	0.0	0	0.0	0	15,241.2	4
Status 3	0.0	0	0.0	0	0.0	0	2,951.2	< 1	0.0	0	0.0	0	110,679.4	31
Status 4	0.0	0	0.0	0	0.0	0	74.1	< 1	0.0	0	158,645.0	45	158,719.1	45
Total	2.3	< 1	0.0	0	4,444.6	1	4,948.7	1	0.0	0	158,645.0	45	354,484.9	100

Common Name: MEADOW VOLE
Scientific Name: MICROTUS PENNSYLVANICUS

ITIS TSN: 180297
NS EICode: AMAFF11010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,818.2	< 1	313.4	< 1	1,365.1	< 1	0.0	0	1,267.3	< 1	6.1	< 1	459.6	< 1
Status 2	19,578.1	1	0.0	0	6,085.8	< 1	0.0	0	932.0	< 1	6.0	< 1	5,176.8	< 1
Status 3	0.0	0	11,425.5	< 1	4,199.1	< 1	14,486.5	< 1	1.7	< 1	287.6	< 1	327.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	832.1	< 1	0.2	< 1	0.0	0	168.7	< 1
Total	21,396.2	1	11,738.9	< 1	11,650.1	< 1	15,318.6	1	2,201.1	< 1	299.8	< 1	6,132.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,340.5	< 1	0.0	0	1,047.2	< 1	0.2	< 1	0.0	0	7,617.5	< 1
Status 2	53.4	< 1	145.1	< 1	152.3	< 1	627.5	< 1	0.0	0	1.4	< 1	32,758.4	2
Status 3	396.5	< 1	0.0	0	165.6	< 1	767.6	< 1	302.2	< 1	0.0	0	32,360.2	2
Status 4	0.0	0	0.0	0	19.2	< 1	41.6	< 1	251.2	< 1	1,390,764.2	95	1,392,077.1	95
Total	450.0	< 1	1,485.5	< 1	337.1	< 1	2,483.8	< 1	553.6	< 1	1,390,765.6	95	1,464,813.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ROCK VOLE

Scientific Name: *MICROTUS CHROTORRHINUS*

ITIS TSN: 180307

NS EICode: AMAFF11090

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,247.4	5	42,147.7	28	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	4,618.9	3	0.0	0	599.0	< 1	0.0	0	500.5	< 1
Status 3	0.0	0	34,382.9	23	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	42,630.3	28	46,766.6	31	0.0	0	599.0	< 1	0.0	0	500.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	832.3	< 1	0.0	0	0.0	0	51,227.5	34
Status 2	0.0	0	0.0	0	2,742.8	2	173.7	< 1	0.0	0	0.0	0	8,635.0	6
Status 3	0.0	0	0.0	0	0.0	0	2,706.5	2	0.0	0	0.0	0	37,089.4	25
Status 4	0.0	0	0.0	0	0.0	0	60.3	< 1	0.0	0	53,569.5	36	53,629.8	36
Total	0.0	0	0.0	0	2,742.8	2	3,772.8	3	0.0	0	53,569.5	36	150,581.6	100

Common Name: WOODLAND VOLE

Scientific Name: *MICROTUS PINETORUM*

ITIS TSN: 180314

NS EICode: AMAFF11150

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	24,908.9	< 1	89,350.1	1	0.0	0	13,545.5	< 1	1.5	< 1	2,234.6	< 1
Status 2	8,291.7	< 1	0.0	0	15,660.3	< 1	0.0	0	21,403.6	< 1	653.3	< 1	36,902.6	< 1
Status 3	0.0	0	381,862.8	5	222.4	< 1	84,312.6	1	14.6	< 1	13,461.0	< 1	26,467.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	651.1	< 1	35.9	< 1	0.0	0	1,088.5	< 1
Total	8,293.2	< 1	406,771.7	5	105,232.8	1	84,963.7	1	34,999.7	< 1	14,115.9	< 1	66,693.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	149.9	< 1	8.8	< 1	3,362.0	< 1	151.4	< 1	0.0	0	133,714.2	2
Status 2	629.6	< 1	2.5	< 1	8,363.3	< 1	2,733.0	< 1	0.0	0	16.0	< 1	94,656.0	1
Status 3	10,116.2	< 1	0.0	0	1,843.5	< 1	4,924.0	< 1	2,727.0	< 1	0.0	0	525,951.6	7
Status 4	0.0	0	0.0	0	62.7	< 1	700.7	< 1	890.6	< 1	7,193,693.0	90	7,197,122.4	91
Total	10,745.7	< 1	152.4	< 1	10,278.4	< 1	11,719.7	< 1	3,768.9	< 1	7,193,709.0	90	7,951,444.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MUSKRAT
Scientific Name: ONDATRA ZIBETHICUS

ITIS TSN: 180318
NS EICode: AMAFF15010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	343.0	< 1	131.0	< 1	307.3	< 1	0.0	0	1,179.4	< 1	39.5	< 1	692.6	< 1
Status 2	6,186.2	1	0.0	0	1,138.9	< 1	0.0	0	1,273.1	< 1	222.5	< 1	3,706.1	< 1
Status 3	0.0	0	3,082.1	< 1	614.5	< 1	5,639.9	1	14.0	< 1	185.9	< 1	1,461.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,530.5	< 1	5.2	< 1	0.0	0	133.0	< 1
Total	6,529.1	1	3,213.2	< 1	2,060.6	< 1	7,170.4	1	2,471.6	< 1	447.8	< 1	5,993.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	751.2	< 1	14.4	< 1	467.0	< 1	18.7	< 1	0.0	0	3,944.1	< 1
Status 2	2.0	< 1	117.2	< 1	217.1	< 1	328.3	< 1	0.0	0	24.4	< 1	13,215.6	3
Status 3	309.2	< 1	0.0	0	370.4	< 1	1,070.8	< 1	76.6	< 1	0.0	0	12,825.1	3
Status 4	0.0	0	0.0	0	6.1	< 1	19.7	< 1	55.6	< 1	464,288.2	94	466,038.4	94
Total	311.2	< 1	868.4	< 1	608.0	< 1	1,885.9	< 1	150.9	< 1	464,312.6	94	496,023.2	100

Common Name: SOUTHERN BOG LEMMING
Scientific Name: SYNAPTOMYS COOPERI

ITIS TSN: 180324
NS EICode: AMAFF17010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,168.0	< 1	11,182.8	3	337.1	< 1	0.0	0	1,583.6	< 1	130.2	< 1	76.1	< 1
Status 2	29,484.8	9	0.0	0	145.2	< 1	0.0	0	286.3	< 1	0.2	< 1	4,171.2	1
Status 3	0.0	0	24,925.1	8	6.8	< 1	5,260.2	2	0.0	0	13,343.1	4	0.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	8.4	< 1	0.0	0	0.0	0	0.0	0
Total	30,652.8	10	36,107.9	11	489.1	< 1	5,268.6	2	1,869.8	< 1	13,473.5	4	4,248.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	340.1	< 1	0.0	0	318.1	< 1	0.2	< 1	0.0	0	15,136.1	5
Status 2	13.7	< 1	0.0	0	25.5	< 1	975.1	< 1	0.0	0	17.2	< 1	35,119.1	11
Status 3	48.0	< 1	0.0	0	0.0	0	59.0	< 1	0.0	0	0.0	0	43,643.0	14
Status 4	0.0	0	0.0	0	15.0	< 1	6.5	< 1	73.4	< 1	226,924.8	71	227,028.2	71
Total	61.6	< 1	340.1	< 1	40.5	< 1	1,358.6	< 1	73.6	< 1	226,942.0	71	320,926.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK RAT
Scientific Name: RATTUS RATTUS

ITIS TSN: 180362
NS EICode: AMAFF21010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	15.2	< 1	0.0	0	0.0	0	329.9	< 1	0.2	< 1	84.4	< 1
Status 2	6,706.0	< 1	0.0	0	29.9	< 1	0.0	0	633.0	< 1	126.2	< 1	2,266.5	< 1
Status 3	0.0	0	966.2	< 1	259.0	< 1	15,632.8	< 1	16.8	< 1	1,079.1	< 1	1,438.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	65.0	< 1	0.6	< 1	0.0	0	517.1	< 1
Total	6,726.4	< 1	981.5	< 1	288.9	< 1	15,697.8	< 1	980.3	< 1	1,205.5	< 1	4,306.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	30.2	< 1	0.0	0	180.3	< 1	22.1	< 1	0.0	0	682.7	< 1
Status 2	0.0	0	4.6	< 1	138.2	< 1	579.4	< 1	0.0	0	17.2	< 1	10,500.8	< 1
Status 3	711.2	< 1	0.0	0	303.6	< 1	318.0	< 1	1,816.7	< 1	0.0	0	22,541.7	< 1
Status 4	0.0	0	0.0	0	46.9	< 1	49.0	< 1	283.1	< 1	2,581,630.6	99	2,582,592.2	99
Total	711.2	< 1	34.7	< 1	488.6	< 1	1,126.6	< 1	2,121.9	< 1	2,581,647.8	99	2,616,317.4	100

Common Name: NORWAY RAT
Scientific Name: RATTUS NORVEGICUS

ITIS TSN: 180363
NS EICode: AMAFF21020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	330.8	< 1	1,434.0	< 1	0.0	0	602.5	< 1	0.2	< 1	104.6	< 1
Status 2	6,710.7	< 1	0.0	0	2,005.7	< 1	0.0	0	940.6	< 1	135.1	< 1	2,800.6	< 1
Status 3	0.0	0	12,620.8	< 1	306.3	< 1	15,639.3	< 1	16.8	< 1	1,081.4	< 1	1,539.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	78.1	< 1	3.4	< 1	0.0	0	517.1	< 1
Total	6,731.1	< 1	12,951.5	< 1	3,745.9	< 1	15,717.4	< 1	1,563.3	< 1	1,216.6	< 1	4,961.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	30.2	< 1	0.0	0	264.1	< 1	22.2	< 1	0.0	0	2,808.8	< 1
Status 2	56.0	< 1	4.6	< 1	292.6	< 1	714.9	< 1	0.0	0	17.2	< 1	13,677.8	< 1
Status 3	920.7	< 1	0.0	0	331.0	< 1	573.8	< 1	1,816.7	< 1	0.0	0	34,846.1	< 1
Status 4	0.0	0	0.0	0	46.9	< 1	95.9	< 1	624.0	< 1	3,931,243.2	99	3,932,608.5	99
Total	976.7	< 1	34.7	< 1	670.5	< 1	1,648.6	< 1	2,462.9	< 1	3,931,260.4	99	3,983,941.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: HOUSE MOUSE
Scientific Name: MUS MUSCULUS

ITIS TSN: 180366
NS EICode: AMAFF22010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	330.8	< 1	1,434.0	< 1	0.0	0	724.5	< 1	0.2	< 1	104.6	< 1
Status 2	7,051.4	< 1	0.0	0	3,518.6	< 1	0.0	0	1,288.9	< 1	135.1	< 1	2,800.6	< 1
Status 3	0.0	0	12,620.8	< 1	2,429.6	< 1	15,736.1	< 1	16.8	< 1	1,081.4	< 1	1,539.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	102.0	< 1	3.4	< 1	0.0	0	517.1	< 1
Total	7,071.8	< 1	12,951.5	< 1	7,382.2	< 1	15,838.0	< 1	2,033.6	< 1	1,216.6	< 1	4,961.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	309.3	< 1	0.0	0	308.8	< 1	22.2	< 1	0.0	0	3,254.8	< 1
Status 2	56.0	< 1	9.1	< 1	292.6	< 1	717.7	< 1	0.0	0	17.2	< 1	15,887.0	< 1
Status 3	920.7	< 1	0.0	0	331.0	< 1	573.8	< 1	1,816.7	< 1	0.0	0	37,066.2	< 1
Status 4	0.0	0	0.0	0	46.9	< 1	95.9	< 1	624.0	< 1	3,936,933.2	99	3,938,322.3	99
Total	976.7	< 1	318.4	< 1	670.5	< 1	1,696.1	< 1	2,462.9	< 1	3,936,950.4	99	3,994,530.4	100

Common Name: MEADOW JUMPING MOUSE
Scientific Name: ZAPUS HUDSONIUS

ITIS TSN: 180386
NS EICode: AMAFH01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,120.7	< 1	2,089.6	< 1	0.0	0	8,755.3	< 1	588.4	< 1	584.3	< 1
Status 2	14,387.9	< 1	0.0	0	2,072.1	< 1	0.0	0	3,536.3	< 1	890.6	< 1	13,876.6	< 1
Status 3	0.0	0	22,944.6	< 1	37.3	< 1	9,667.7	< 1	19.7	< 1	1,172.0	< 1	5,872.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,618.2	< 1	19.9	< 1	0.0	0	199.4	< 1
Total	14,387.9	< 1	24,065.3	< 1	4,199.0	< 1	11,285.9	< 1	12,331.2	< 1	2,651.0	< 1	20,532.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8.3	< 1	4.9	< 1	701.2	< 1	0.2	< 1	0.0	0	13,852.8	< 1
Status 2	98.9	< 1	0.0	0	959.0	< 1	359.2	< 1	0.0	0	0.0	0	36,180.5	1
Status 3	411.9	< 1	0.0	0	490.1	< 1	1,215.3	< 1	955.4	< 1	0.0	0	42,786.4	2
Status 4	0.0	0	0.0	0	0.0	0	87.4	< 1	722.5	< 1	2,507,728.6	96	2,510,376.0	96
Total	510.9	< 1	8.3	< 1	1,454.0	< 1	2,363.0	< 1	1,678.1	< 1	2,507,728.6	96	2,603,195.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WOODLAND JUMPING MOUSE

Scientific Name: *NAPAEZAPUS INSIGNIS*

ITIS TSN: 180390

NS EICode: AMAFH02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,421.5	2	60,885.0	8	0.0	0	795.4	< 1	0.0	0	59.7	< 1
Status 2	0.0	0	0.0	0	10,471.7	1	0.0	0	1,023.6	< 1	8.5	< 1	2,483.2	< 1
Status 3	0.0	0	153,061.9	20	38.9	< 1	0.0	0	0.0	0	46.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	168,483.4	22	71,395.6	9	0.0	0	1,819.0	< 1	55.4	< 1	2,542.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,408.5	< 1	1.3	< 1	0.0	0	78,571.4	10
Status 2	237.7	< 1	0.0	0	4,787.1	< 1	659.6	< 1	0.0	0	0.0	0	19,671.3	3
Status 3	718.6	< 1	0.0	0	0.0	0	2,648.1	< 1	0.0	0	0.0	0	156,514.3	20
Status 4	0.0	0	0.0	0	0.0	0	134.4	< 1	111.2	< 1	516,306.6	67	516,552.1	67
Total	956.2	< 1	0.0	0	4,787.1	< 1	4,850.6	< 1	112.4	< 1	516,306.6	67	771,309.1	100

Common Name: NUTRIA

Scientific Name: *MYOCASTOR COYPUS*

ITIS TSN: 180402

NS EICode: AMAFK01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	343.0	< 1	48.9	< 1	0.0	0	0.0	0	1,042.2	< 1	42.8	< 1	529.4	< 1
Status 2	7,538.0	4	0.0	0	1,153.8	< 1	0.0	0	647.0	< 1	218.1	< 1	1,505.4	< 1
Status 3	0.0	0	975.9	< 1	693.6	< 1	4,113.5	2	14.0	< 1	124.6	< 1	8.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	44.3	< 1	0.0	0	0.0	0	46.8	< 1
Total	7,880.9	4	1,024.7	< 1	1,847.4	< 1	4,157.7	2	1,703.2	< 1	385.4	< 1	2,089.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	468.9	< 1	0.0	0	379.4	< 1	22.0	< 1	0.0	0	2,876.4	1
Status 2	0.0	0	117.2	< 1	13.9	< 1	236.3	< 1	0.0	0	26.2	< 1	11,455.8	6
Status 3	7.4	< 1	0.0	0	0.0	0	1,003.5	< 1	17.5	< 1	0.0	0	6,957.9	3
Status 4	0.0	0	0.0	0	6.8	< 1	0.0	0	4.3	< 1	185,822.3	90	185,924.4	90
Total	7.4	< 1	586.1	< 1	20.6	< 1	1,619.2	< 1	43.7	< 1	185,848.5	90	207,214.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COYOTE
Scientific Name: CANIS LATRANS

ITIS TSN: 180599
NS EICode: AMAJA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	41,730.2	< 1	111,176.2	< 1	0.0	0	24,966.6	< 1	909.8	< 1	8,695.4	< 1
Status 2	125,105.5	1	0.0	0	22,467.4	< 1	0.0	0	27,545.0	< 1	1,586.9	< 1	93,587.3	< 1
Status 3	0.0	0	457,450.1	4	4,729.9	< 1	140,007.2	1	51.3	< 1	34,960.0	< 1	32,398.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,161.5	< 1	46.9	< 1	0.0	0	1,555.3	< 1
Total	125,130.7	1	499,180.3	4	138,373.5	1	142,168.7	1	52,609.9	< 1	37,456.7	< 1	136,236.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,983.4	< 1	11.8	< 1	10,931.9	< 1	244.4	< 1	0.0	0	207,674.9	2
Status 2	719.1	< 1	152.0	< 1	9,722.5	< 1	7,675.7	< 1	0.0	0	338.2	< 1	288,899.7	2
Status 3	17,803.3	< 1	0.0	0	2,141.9	< 1	15,998.4	< 1	4,382.8	< 1	0.0	0	709,923.2	6
Status 4	0.0	0	0.0	0	350.4	< 1	836.2	< 1	1,635.0	< 1	10,767,661.2	90	10,774,246.5	90
Total	18,522.4	< 1	9,135.4	< 1	12,226.6	< 1	35,442.2	< 1	6,262.3	< 1	10,767,999.4	90	11,980,744.3	100

Common Name: RED WOLF
Scientific Name: CANIS RUFUS

ITIS TSN: 180600
NS EICode: AMAJA01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	0.0	0	0.0	0	0.0	0	0.0	0	912.3	< 1	0.0	0
Status 2	103,811.9	20	0.0	0	0.0	0	0.0	0	1,096.7	< 1	0.0	0	12,606.1	2
Status 3	0.0	0	0.0	0	0.0	0	18,426.6	3	0.0	0	1,595.0	< 1	231.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	103,837.1	20	0.0	0	0.0	0	18,426.6	3	1,096.7	< 1	2,507.3	< 1	12,837.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,694.4	1	0.0	0	404.8	< 1	0.0	0	0.0	0	9,036.7	2
Status 2	0.0	0	0.0	0	0.9	< 1	4,135.9	< 1	0.0	0	338.7	< 1	121,990.1	23
Status 3	0.0	0	0.0	0	0.0	0	262.9	< 1	0.0	0	0.0	0	20,516.1	4
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	655.5	< 1	374,409.7	71	375,065.2	71
Total	0.0	0	7,694.4	1	0.9	< 1	4,803.6	< 1	655.5	< 1	374,748.4	71	526,608.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RED FOX
Scientific Name: VULPES VULPES

ITIS TSN: 180604
NS EICode: AMAJA03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	2,883.7	< 1	5,624.8	< 1	0.0	0	1,544.3	< 1	6.8	< 1	280.8	< 1
Status 2	7,168.8	< 1	0.0	0	3,940.7	< 1	0.0	0	2,799.6	< 1	200.6	< 1	6,900.4	< 1
Status 3	0.0	0	33,379.5	< 1	460.1	< 1	70,104.1	2	21.1	< 1	5,280.1	< 1	20,485.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	521.6	< 1	5.2	< 1	0.0	0	852.9	< 1
Total	7,173.9	< 1	36,263.2	1	10,025.6	< 1	70,625.7	2	4,370.2	< 1	5,487.5	< 1	28,519.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	382.5	< 1	4.3	< 1	1,041.0	< 1	148.9	< 1	0.0	0	11,922.2	< 1
Status 2	79.4	< 1	28.2	< 1	887.1	< 1	816.1	< 1	0.0	0	23.4	< 1	22,844.2	< 1
Status 3	5,456.4	< 1	0.0	0	720.6	< 1	1,843.8	< 1	1,081.1	< 1	0.0	0	138,832.2	4
Status 4	0.0	0	0.0	0	127.9	< 1	94.0	< 1	249.2	< 1	3,444,640.1	95	3,446,491.0	95
Total	5,535.8	< 1	410.7	< 1	1,740.0	< 1	3,794.9	< 1	1,479.2	< 1	3,444,663.5	95	3,620,089.6	100

Common Name: COMMON GRAY FOX
Scientific Name: UROCYON CINEREOARGENTEUS

ITIS TSN: 180609
NS EICode: AMAJA04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	28,651.7	< 1	67,600.1	< 1	0.0	0	21,922.8	< 1	909.6	< 1	8,581.6	< 1
Status 2	117,627.8	1	0.0	0	13,668.2	< 1	0.0	0	23,191.7	< 1	1,399.1	< 1	85,877.5	1
Status 3	0.0	0	381,805.7	5	2,480.7	< 1	134,783.5	2	36.0	< 1	33,604.1	< 1	29,537.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,972.5	< 1	41.5	< 1	0.0	0	1,161.9	< 1
Total	117,632.5	1	410,457.4	5	83,749.0	1	136,756.0	2	45,192.1	< 1	35,912.8	< 1	125,158.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,681.0	< 1	10.3	< 1	9,013.7	< 1	222.2	< 1	0.0	0	145,597.8	2
Status 2	663.3	< 1	24.2	< 1	5,968.1	< 1	6,742.0	< 1	0.0	0	321.0	< 1	255,482.9	3
Status 3	16,690.4	< 1	0.0	0	1,747.2	< 1	12,490.0	< 1	2,325.8	< 1	0.0	0	615,501.2	8
Status 4	0.0	0	0.0	0	87.0	< 1	661.9	< 1	958.3	< 1	7,049,759.0	87	7,054,642.1	87
Total	17,353.7	< 1	8,705.3	< 1	7,812.5	< 1	28,907.6	< 1	3,506.3	< 1	7,050,080.0	87	8,071,223.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK BEAR
Scientific Name: *URSUS AMERICANUS*

ITIS TSN: 180544
NS EICode: AMAJB01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	7.8	< 1	39,677.0	< 1	111,174.6	1	0.0	0	22,730.0	< 1	909.8	< 1	8,633.7	< 1
Status 2	118,623.5	1	0.0	0	19,754.6	< 1	0.0	0	19,948.7	< 1	1,531.4	< 1	79,077.9	< 1
Status 3	0.0	0	437,696.0	5	252.5	< 1	127,537.9	1	51.3	< 1	12,116.1	< 1	5,204.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	158.2	< 1	0.3	< 1	0.0	0	689.0	< 1
Total	118,631.3	1	477,373.0	5	131,181.8	1	127,696.1	1	42,730.3	< 1	14,557.2	< 1	93,605.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,819.7	< 1	11.7	< 1	10,129.3	< 1	244.4	< 1	0.0	0	201,338.1	2
Status 2	718.7	< 1	0.0	0	9,016.1	< 1	7,153.1	< 1	0.0	0	338.2	< 1	256,162.2	3
Status 3	17,259.7	< 1	0.0	0	393.8	< 1	15,018.5	< 1	2,482.2	< 1	0.0	0	618,012.4	7
Status 4	0.0	0	0.0	0	122.7	< 1	829.1	< 1	931.6	< 1	8,414,925.2	89	8,417,656.1	89
Total	17,978.3	< 1	7,819.7	< 1	9,544.2	< 1	33,130.0	< 1	3,658.2	< 1	8,415,263.4	89	9,493,168.7	100

Common Name: COMMON RACCOON
Scientific Name: *PROCYON LOTOR*

ITIS TSN: 180575
NS EICode: AMAJE02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,841.9	< 1	26,694.0	< 1	60,061.6	< 1	0.0	0	25,738.5	< 1	915.8	< 1	9,094.1	< 1
Status 2	143,087.4	1	0.0	0	18,705.3	< 1	0.0	0	27,271.4	< 1	1,588.9	< 1	96,434.6	< 1
Status 3	0.0	0	367,958.3	3	7,597.9	< 1	151,348.0	1	51.8	< 1	34,983.7	< 1	31,175.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	3,010.1	< 1	47.0	< 1	0.0	0	1,508.0	< 1
Total	144,929.3	1	394,652.3	3	86,364.8	< 1	154,358.1	1	53,108.6	< 1	37,488.3	< 1	138,212.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,162.2	< 1	13.7	< 1	10,099.9	< 1	244.5	< 1	0.0	0	144,866.2	1
Status 2	718.7	< 1	173.7	< 1	5,560.0	< 1	7,855.3	< 1	0.0	0	338.9	< 1	301,734.2	3
Status 3	17,809.9	< 1	0.0	0	2,235.2	< 1	13,522.8	< 1	4,407.3	< 1	0.0	0	631,090.2	5
Status 4	0.0	0	0.0	0	125.2	< 1	769.0	< 1	1,629.2	< 1	10,908,659.3	91	10,915,747.7	91
Total	18,528.6	< 1	10,335.9	< 1	7,934.0	< 1	32,246.9	< 1	6,281.0	< 1	10,908,998.2	91	11,993,438.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LEAST WEASEL
Scientific Name: *MUSTELA NIVALIS*

ITIS TSN: 180554
NS EICode: AMAJF02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	12,112.9	1	43,064.6	4	0.0	0	0.0	0	0.0	0	1,875.1	< 1
Status 2	0.0	0	0.0	0	11,802.2	1	0.0	0	3,566.3	< 1	23.4	< 1	6,334.0	< 1
Status 3	0.0	0	205,258.1	19	102.9	< 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	217,371.1	20	54,969.7	5	0.0	0	3,566.3	< 1	23.4	< 1	8,209.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,193.7	< 1	1.4	< 1	0.0	0	58,247.6	5
Status 2	718.7	< 1	0.0	0	7,526.5	< 1	877.5	< 1	0.0	0	0.0	0	30,848.7	3
Status 3	2,018.7	< 1	0.0	0	0.0	0	3,608.5	< 1	0.0	0	0.0	0	210,988.2	20
Status 4	0.0	0	0.0	0	0.0	0	393.9	< 1	0.0	0	770,209.3	72	770,603.2	72
Total	2,737.4	< 1	0.0	0	7,526.5	< 1	6,073.6	< 1	1.4	< 1	770,209.3	72	1,070,687.6	100

Common Name: LONG-TAILED WEASEL
Scientific Name: *MUSTELA FRENATA*

ITIS TSN: 180556
NS EICode: AMAJF02030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,736.4	< 1	5,648.1	< 1	0.0	0	2,933.5	< 1	214.4	< 1	504.5	< 1
Status 2	60,944.4	1	0.0	0	4,650.1	< 1	0.0	0	4,218.7	< 1	212.8	< 1	43,727.6	< 1
Status 3	0.0	0	63,835.5	1	2,056.5	< 1	108,828.4	2	22.1	< 1	22,569.3	< 1	23,121.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,675.0	< 1	5.5	< 1	0.0	0	962.4	< 1
Total	60,970.2	1	78,571.9	2	12,354.8	< 1	110,503.4	3	7,179.7	< 1	22,996.4	< 1	68,315.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,717.2	< 1	17.2	< 1	6,406.7	< 1	178.9	< 1	0.0	0	33,382.7	< 1
Status 2	80.4	< 1	60.2	< 1	1,012.4	< 1	1,949.4	< 1	0.0	0	50.9	< 1	116,906.9	3
Status 3	9,991.8	< 1	0.0	0	960.8	< 1	2,578.2	< 1	1,145.5	< 1	0.0	0	235,109.1	5
Status 4	0.0	0	0.0	0	150.5	< 1	134.8	< 1	279.7	< 1	3,999,434.3	91	4,002,642.2	91
Total	10,072.2	< 1	2,777.4	< 1	2,140.9	< 1	11,069.1	< 1	1,604.2	< 1	3,999,485.3	91	4,388,040.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: MINK
Scientific Name: *MUSTELA VISON*

ITIS TSN: 180553
NS EICode: AMAJF02050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	765.2	< 1	4,321.0	< 1	17,010.1	1	0.0	0	3,263.5	< 1	49.1	< 1	926.2	< 1
Status 2	14,761.4	< 1	0.0	0	3,205.5	< 1	0.0	0	5,631.3	< 1	366.5	< 1	12,873.5	< 1
Status 3	0.0	0	64,316.7	4	41.0	< 1	23,586.2	2	18.9	< 1	715.2	< 1	5,515.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,099.4	< 1	15.2	< 1	0.0	0	257.6	< 1
Total	15,526.5	< 1	68,637.7	4	20,256.7	1	25,685.6	2	8,928.9	< 1	1,130.9	< 1	19,573.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,022.2	< 1	10.1	< 1	1,183.5	< 1	27.4	< 1	0.0	0	28,578.2	2
Status 2	102.2	< 1	157.0	< 1	1,565.6	< 1	1,069.3	< 1	0.0	0	46.4	< 1	39,778.7	3
Status 3	1,114.8	< 1	0.0	0	740.9	< 1	2,073.2	< 1	487.4	< 1	0.0	0	98,610.0	6
Status 4	0.0	0	0.0	0	16.6	< 1	116.5	< 1	104.3	< 1	1,396,421.9	89	1,399,031.5	89
Total	1,217.1	< 1	1,179.2	< 1	2,333.1	< 1	4,442.4	< 1	619.0	< 1	1,396,468.4	89	1,565,998.4	100

Common Name: EASTERN SPOTTED SKUNK
Scientific Name: *SPILOGALE PUTORIUS*

ITIS TSN: 180570
NS EICode: AMAJF05010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	18,141.6	2	71,695.4	7	0.0	0	1,349.8	< 1	0.0	0	540.8	< 1
Status 2	0.0	0	0.0	0	12,040.1	1	0.0	0	1,750.4	< 1	6.9	< 1	3,874.8	< 1
Status 3	0.0	0	188,147.9	18	39.4	< 1	6.4	< 1	0.0	0	63.3	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	30.7	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	206,289.5	19	83,774.9	8	37.1	< 1	3,100.2	< 1	70.2	< 1	4,415.6	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,727.8	< 1	0.3	< 1	0.0	0	93,455.6	9
Status 2	192.0	< 1	0.0	0	5,151.5	< 1	722.0	< 1	0.0	0	0.0	0	23,737.7	2
Status 3	701.1	< 1	0.0	0	0.0	0	2,939.5	< 1	0.0	0	0.0	0	191,897.6	18
Status 4	0.0	0	0.0	0	0.0	0	179.2	< 1	123.3	< 1	759,340.8	71	759,674.0	71
Total	893.1	< 1	0.0	0	5,151.5	< 1	5,568.5	< 1	123.6	< 1	759,340.8	71	1,068,764.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: STRIPED SKUNK
Scientific Name: *MEPHITIS MEPHITIS*

ITIS TSN: 180562
NS EICode: AMAJF06010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,704.1	< 1	5,612.9	< 1	0.0	0	2,445.8	< 1	0.0	0	75.6	< 1
Status 2	13,603.6	< 1	0.0	0	3,880.4	< 1	0.0	0	3,039.9	< 1	200.3	< 1	34,358.7	< 1
Status 3	0.0	0	63,019.8	2	93.0	< 1	93,390.2	3	21.5	< 1	22,354.8	< 1	22,849.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,512.8	< 1	5.4	< 1	0.0	0	895.7	< 1
Total	13,603.6	< 1	77,723.9	2	9,586.2	< 1	94,903.0	3	5,512.6	< 1	22,555.1	< 1	58,179.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	7.1	< 1	828.5	< 1	178.8	< 1	0.0	0	23,852.7	< 1
Status 2	79.1	< 1	26.2	< 1	920.6	< 1	702.6	< 1	0.0	0	0.0	0	56,811.3	2
Status 3	3,976.1	< 1	0.0	0	766.2	< 1	1,427.0	< 1	338.7	< 1	0.0	0	208,236.4	6
Status 4	0.0	0	0.0	0	93.2	< 1	115.7	< 1	274.5	< 1	3,296,196.7	92	3,299,094.0	92
Total	4,055.2	< 1	26.2	< 1	1,787.0	< 1	3,073.8	< 1	792.0	< 1	3,296,196.7	92	3,587,994.5	100

Common Name: NORTHERN RIVER OTTER
Scientific Name: *LUTRA CANADENSIS*

ITIS TSN: 180572
NS EICode: AMAJF08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	345.1	< 1	4,036.5	< 1	14,946.3	< 1	0.0	0	3,824.9	< 1	52.7	< 1	1,037.5	< 1
Status 2	16,046.4	1	0.0	0	2,365.7	< 1	0.0	0	5,822.3	< 1	374.9	< 1	11,821.7	< 1
Status 3	0.0	0	61,807.3	4	34.2	< 1	22,560.9	1	18.8	< 1	810.1	< 1	5,757.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,057.9	< 1	15.2	< 1	0.0	0	284.4	< 1
Total	16,391.4	1	65,843.8	4	17,346.2	1	24,618.9	2	9,681.2	< 1	1,237.8	< 1	18,900.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,300.5	< 1	31.8	< 1	967.9	< 1	27.4	< 1	0.0	0	26,570.5	2
Status 2	99.3	< 1	122.2	< 1	1,638.0	< 1	976.8	< 1	0.0	0	56.5	< 1	39,323.7	3
Status 3	1,205.4	< 1	0.0	0	1,039.4	< 1	1,834.0	< 1	480.7	< 1	0.0	0	95,548.1	6
Status 4	0.0	0	0.0	0	18.5	< 1	122.4	< 1	112.7	< 1	1,394,031.2	89	1,396,642.3	90
Total	1,304.6	< 1	1,422.7	< 1	2,727.6	< 1	3,901.1	< 1	620.7	< 1	1,394,087.8	89	1,558,084.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BOBCAT
Scientific Name: *LYNX RUFUS*

ITIS TSN: 180582
NS EICode: AMAJH03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	41,729.9	< 1	111,176.4	< 1	0.0	0	24,851.3	< 1	909.8	< 1	8,695.8	< 1
Status 2	124,774.0	1	0.0	0	20,799.0	< 1	0.0	0	27,227.6	< 1	1,588.9	< 1	93,812.0	< 1
Status 3	0.0	0	457,811.7	4	2,586.4	< 1	142,179.1	1	51.3	< 1	34,961.0	< 1	32,270.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,137.6	< 1	47.0	< 1	0.0	0	1,610.7	< 1
Total	124,799.2	1	499,541.7	4	134,561.8	1	144,316.7	1	52,177.2	< 1	37,459.6	< 1	136,389.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,700.0	< 1	11.8	< 1	10,888.3	< 1	244.4	< 1	0.0	0	207,233.0	2
Status 2	718.7	< 1	28.6	< 1	9,768.6	< 1	7,680.5	< 1	0.0	0	338.2	< 1	286,736.1	2
Status 3	17,808.8	< 1	0.0	0	2,194.9	< 1	15,998.2	< 1	4,382.9	< 1	0.0	0	710,245.1	6
Status 4	0.0	0	0.0	0	123.7	< 1	840.1	< 1	1,631.2	< 1	10,956,987.4	90	10,963,377.5	90
Total	18,527.5	< 1	8,728.7	< 1	12,099.0	< 1	35,407.1	< 1	6,258.5	< 1	10,957,325.6	90	12,167,591.7	100

Common Name: FERAL PIG
Scientific Name: *SUS SCROFA*

ITIS TSN: 180722
NS EICode: AMALA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.6	< 1	11,716.7	< 1	60,003.5	4	0.0	0	6,542.0	< 1	625.2	< 1	4,127.8	< 1
Status 2	73,221.7	5	0.0	0	4,833.1	< 1	0.0	0	4,225.1	< 1	6.9	< 1	17,754.3	1
Status 3	0.0	0	129,345.6	8	434.4	< 1	45,466.8	3	0.0	0	3,622.9	< 1	1,293.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	27.8	< 1	0.0	0	0.0	0	8.6	< 1
Total	73,223.3	5	141,062.3	9	65,271.0	4	45,494.6	3	10,767.2	< 1	4,255.0	< 1	23,183.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,684.8	< 1	0.0	0	3,157.0	< 1	77.2	< 1	0.0	0	91,935.8	6
Status 2	0.0	0	19.8	< 1	79.7	< 1	3,170.5	< 1	0.0	0	286.4	< 1	103,597.6	7
Status 3	2,732.9	< 1	0.0	0	24.2	< 1	6,657.3	< 1	57.6	< 1	0.0	0	189,634.8	12
Status 4	0.0	0	0.0	0	35.7	< 1	50.1	< 1	145.7	< 1	1,171,696.7	75	1,171,964.7	75
Total	2,732.9	< 1	5,704.6	< 1	139.7	< 1	13,035.0	< 1	280.5	< 1	1,171,983.1	75	1,557,132.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: WHITE-TAILED DEER

Scientific Name: *ODOCOILEUS VIRGINIANUS*

ITIS TSN: 180699

NS EICode: AMALC02020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.6	< 1	14,713.5	< 1	5,612.9	< 1	0.0	0	2,846.2	< 1	214.0	< 1	456.2	< 1
Status 2	60,702.4	1	0.0	0	4,794.1	< 1	0.0	0	3,971.8	< 1	209.7	< 1	43,419.1	1
Status 3	0.0	0	63,232.5	1	2,089.7	< 1	107,420.2	3	22.0	< 1	22,538.4	< 1	22,919.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,608.2	< 1	5.4	< 1	0.0	0	944.3	< 1
Total	60,728.0	1	77,945.9	2	12,496.7	< 1	109,028.4	3	6,845.3	< 1	22,962.2	< 1	67,739.4	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,693.9	< 1	7.1	< 1	6,379.0	< 1	178.9	< 1	0.0	0	33,127.2	< 1
Status 2	79.1	< 1	43.3	< 1	943.8	< 1	1,915.1	< 1	0.0	0	50.8	< 1	116,129.2	3
Status 3	9,937.0	< 1	0.0	0	773.3	< 1	2,498.4	< 1	1,117.7	< 1	0.0	0	232,549.0	5
Status 4	0.0	0	0.0	0	95.9	< 1	118.3	< 1	274.5	< 1	3,890,223.6	91	3,893,270.1	91
Total	10,016.1	< 1	2,737.2	< 1	1,820.1	< 1	10,910.8	< 1	1,571.1	< 1	3,890,274.4	91	4,275,075.5	100

Common Name: FERAL HORSE

Scientific Name: *EQUUS CABALLUS*

ITIS TSN: 180691

NS EICode: AMATA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	786.2	9	0.0	0	2,950.3	33	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	786.2	9	0.0	0	2,950.3	33	0.0	0	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	101.6	1	0.0	0	148.1	2	0.0	0	0.0	0	249.8	3
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,736.4	42
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	4,858.5	55	4,858.5	55
Total	0.0	0	101.6	1	0.0	0	148.1	2	0.0	0	4,858.5	55	8,844.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LOGGERHEAD
Scientific Name: CARETTA CARETTA

ITIS TSN: 173830
NS EICode: ARAAA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.6	< 1	0.0	0	0.0	0	0.0	0	57.8	1	0.0	0	18.9	< 1
Status 2	312.5	6	0.0	0	602.6	11	0.0	0	54.4	1	0.0	0	10.4	< 1
Status 3	0.0	0	4.6	< 1	422.0	8	251.5	5	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.4	< 1	0.0	0	0.0	0	0.0	0
Total	346.1	6	4.6	< 1	1,024.6	19	253.9	5	112.1	2	0.0	0	29.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	201.2	4	0.0	0	12.0	< 1	0.0	0	0.0	0	323.4	6
Status 2	0.0	0	5.8	< 1	0.0	0	0.4	< 1	0.0	0	0.0	0	986.0	18
Status 3	0.0	0	0.0	0	0.0	0	27.4	< 1	0.4	< 1	0.0	0	705.8	13
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,330.5	62	3,332.9	62
Total	0.0	0	206.9	4	0.0	0	39.7	< 1	0.4	< 1	3,330.5	62	5,348.0	100

Common Name: GREEN TURTLE
Scientific Name: CHELONIA MYDAS

ITIS TSN: 173833
NS EICode: ARAAA02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	32.4	< 1	0.0	0	0.0	0	0.0	0	57.8	1	0.0	0	18.9	< 1
Status 2	309.1	6	0.0	0	602.6	11	0.0	0	54.4	1	0.0	0	10.4	< 1
Status 3	0.0	0	4.6	< 1	422.0	8	251.5	5	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.4	< 1	0.0	0	0.0	0	0.0	0
Total	341.5	6	4.6	< 1	1,024.6	19	253.9	5	112.1	2	0.0	0	29.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	201.2	4	0.0	0	12.0	< 1	0.0	0	0.0	0	322.2	6
Status 2	0.0	0	5.8	< 1	0.0	0	0.4	< 1	0.0	0	0.0	0	982.5	18
Status 3	0.0	0	0.0	0	0.0	0	27.4	< 1	0.4	< 1	0.0	0	705.8	13
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,299.9	62	3,302.4	62
Total	0.0	0	206.9	4	0.0	0	39.7	< 1	0.4	< 1	3,299.9	62	5,312.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ATLANTIC RIDLEY
Scientific Name: LEPIDOCHELYS KEMPII

ITIS TSN: 551770
NS EICode: ARAAA04010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.6	< 1	0.0	0	0.0	0	0.0	0	57.8	1	0.0	0	18.9	< 1
Status 2	312.5	6	0.0	0	602.6	11	0.0	0	54.4	< 1	0.0	0	14.5	< 1
Status 3	0.0	0	4.6	< 1	422.0	8	251.8	5	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.4	< 1	0.0	0	0.0	0	0.0	0
Total	346.1	6	4.6	< 1	1,024.6	19	254.3	5	112.1	2	0.0	0	33.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	201.2	4	0.0	0	12.0	< 1	0.0	0	0.0	0	323.4	6
Status 2	0.0	0	5.8	< 1	0.0	0	0.4	< 1	0.0	0	0.0	0	990.0	18
Status 3	0.0	0	0.0	0	0.0	0	27.4	< 1	0.4	< 1	0.0	0	706.1	13
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,432.2	63	3,434.6	63
Total	0.0	0	206.9	4	0.0	0	39.7	< 1	0.4	< 1	3,432.2	63	5,454.1	100

Common Name: SNAPPING TURTLE
Scientific Name: CHELYDRA SERPENTINA

ITIS TSN: 173752
NS EICode: ARAAB01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	2,047.6	< 1	6,849.7	< 1	0.0	0	3,666.1	< 1	52.7	< 1	1,047.2	< 1
Status 2	17,464.6	< 1	0.0	0	2,488.3	< 1	0.0	0	5,773.1	< 1	404.8	< 1	11,684.1	< 1
Status 3	0.0	0	39,626.1	2	869.8	< 1	24,236.9	1	21.8	< 1	845.6	< 1	5,955.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,078.1	< 1	16.2	< 1	0.0	0	415.6	< 1
Total	17,814.1	< 1	41,673.7	2	10,207.8	< 1	26,315.0	1	9,477.1	< 1	1,303.1	< 1	19,102.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,444.4	< 1	31.8	< 1	909.1	< 1	27.4	< 1	0.0	0	16,425.5	< 1
Status 2	91.0	< 1	123.8	< 1	1,277.3	< 1	1,003.6	< 1	0.0	0	66.2	< 1	40,376.8	2
Status 3	1,202.8	< 1	0.0	0	1,133.8	< 1	1,599.1	< 1	875.2	< 1	0.0	0	76,366.8	4
Status 4	0.0	0	0.0	0	23.7	< 1	111.2	< 1	264.7	< 1	1,881,390.2	93	1,884,299.8	93
Total	1,293.7	< 1	1,568.3	< 1	2,466.5	< 1	3,623.0	< 1	1,167.2	< 1	1,881,456.5	93	2,017,468.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: LEATHERBACK

Scientific Name: *DERMOCHELYS CORIACEA*

ITIS TSN: 173843

NS EICode: ARAAC01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	33.6	< 1	0.0	0	0.0	0	0.0	0	57.8	1	0.0	0	18.9	< 1
Status 2	312.5	6	0.0	0	590.6	11	0.0	0	54.4	1	0.0	0	10.4	< 1
Status 3	0.0	0	4.6	< 1	422.0	8	251.5	5	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.4	< 1	0.0	0	0.0	0	0.0	0
Total	346.1	6	4.6	< 1	1,012.6	19	253.9	5	112.1	2	0.0	0	29.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	201.2	4	0.0	0	12.0	< 1	0.0	0	0.0	0	323.4	6
Status 2	0.0	0	5.8	< 1	0.0	0	0.4	< 1	0.0	0	0.0	0	974.0	18
Status 3	0.0	0	0.0	0	0.0	0	27.4	< 1	0.4	< 1	0.0	0	705.8	13
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,327.8	62	3,330.2	62
Total	0.0	0	206.9	4	0.0	0	39.7	< 1	0.4	< 1	3,327.8	62	5,333.3	100

Common Name: PAINTED TURTLE

Scientific Name: *CHRYSEMYS PICTA*

ITIS TSN: 173783

NS EICode: ARAAD01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	2,011.0	< 1	6,849.7	< 1	0.0	0	2,980.4	< 1	52.7	< 1	886.1	< 1
Status 2	17,108.6	< 1	0.0	0	1,454.3	< 1	0.0	0	5,549.7	< 1	404.8	< 1	11,197.2	< 1
Status 3	0.0	0	39,144.8	2	851.6	< 1	18,651.2	< 1	21.8	< 1	533.0	< 1	5,955.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,031.0	< 1	15.8	< 1	0.0	0	412.2	< 1
Total	17,458.1	< 1	41,155.7	2	9,155.6	< 1	20,682.3	1	8,567.6	< 1	990.5	< 1	18,451.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	935.8	< 1	31.8	< 1	682.7	< 1	0.0	0	0.0	0	14,779.6	< 1
Status 2	91.0	< 1	102.4	< 1	1,257.6	< 1	849.7	< 1	0.0	0	66.2	< 1	38,081.5	2
Status 3	847.5	< 1	0.0	0	1,128.1	< 1	1,340.2	< 1	875.2	< 1	0.0	0	69,349.0	4
Status 4	0.0	0	0.0	0	16.8	< 1	111.2	< 1	264.7	< 1	1,760,009.0	93	1,762,860.8	94
Total	938.5	< 1	1,038.2	< 1	2,434.2	< 1	2,983.8	< 1	1,139.9	< 1	1,760,075.2	93	1,885,070.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SPOTTED TURTLE
Scientific Name: CLEMMYS GUTTATA

ITIS TSN: 173771
NS EICode: ARAAD02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,433.8	< 1	157.6	< 1	0.0	0	0.0	0	4,201.7	< 1	283.2	< 1	2,368.7	< 1
Status 2	27,244.0	4	0.0	0	2,437.4	< 1	0.0	0	2,671.7	< 1	595.0	< 1	9,548.1	1
Status 3	0.0	0	3,510.3	< 1	1,646.5	< 1	14,763.2	2	21.9	< 1	740.5	< 1	2,553.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,960.4	< 1	0.0	0	0.0	0	162.3	< 1
Total	28,677.8	4	3,667.9	< 1	4,083.8	< 1	16,723.5	2	6,895.2	1	1,618.7	< 1	14,632.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,167.7	< 1	26.6	< 1	1,270.2	< 1	32.2	< 1	0.0	0	12,941.6	2
Status 2	0.0	0	148.4	< 1	92.7	< 1	1,473.3	< 1	0.0	0	153.6	< 1	44,364.2	7
Status 3	993.4	< 1	0.0	0	373.8	< 1	3,431.6	< 1	123.2	< 1	0.0	0	28,157.8	4
Status 4	0.0	0	0.0	0	24.3	< 1	1.9	< 1	36.1	< 1	583,791.9	87	585,976.9	87
Total	993.4	< 1	3,316.1	< 1	517.3	< 1	6,177.0	< 1	191.5	< 1	583,945.6	87	671,440.4	100

Common Name: BOG TURTLE
Scientific Name: CLEMMYS MUHLENBERGII

ITIS TSN: 173773
NS EICode: ARAAD02040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	261.4	< 1	193.1	< 1	0.0	0	186.3	< 1	0.0	0	12.6	< 1
Status 2	3.2	< 1	0.0	0	1,456.9	< 1	0.0	0	152.6	< 1	0.6	< 1	200.9	< 1
Status 3	0.0	0	8,825.5	2	19.4	< 1	0.7	< 1	0.0	0	1.4	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	2.8	< 1	0.0	0	0.0	0	0.0	0
Total	3.2	< 1	9,086.9	2	1,669.4	< 1	3.5	< 1	338.9	< 1	2.1	< 1	213.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	35.9	< 1	0.2	< 1	0.0	0	689.4	< 1
Status 2	53.4	< 1	0.0	0	65.2	< 1	91.4	< 1	0.0	0	0.0	0	2,024.2	< 1
Status 3	172.2	< 1	0.0	0	0.0	0	59.5	< 1	0.0	0	0.0	0	9,078.8	2
Status 4	0.0	0	0.0	0	0.0	0	22.6	< 1	104.1	< 1	385,056.3	97	385,185.8	97
Total	225.6	< 1	0.0	0	65.2	< 1	209.3	< 1	104.3	< 1	385,056.3	97	396,978.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: CHICKEN TURTLE

Scientific Name: *DEIROCHELYS RETICULARIA*

ITIS TSN: 173786

NS EICode: ARAAD03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	420.0	< 1	0.0	0	0.0	0	326.1	< 1	0.0	0	265.3	< 1
Status 2	4,731.9	2	0.0	0	4.9	< 1	0.0	0	632.3	< 1	75.0	< 1	725.6	< 1
Status 3	0.0	0	3,107.3	2	71.0	< 1	13,811.5	7	12.9	< 1	299.4	< 1	2,160.8	1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	149.1	< 1
Total	4,731.9	2	3,527.3	2	75.9	< 1	13,811.5	7	971.2	< 1	374.4	< 1	3,300.8	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	17.6	< 1	0.0	0	177.5	< 1	26.2	< 1	0.0	0	1,232.7	< 1
Status 2	0.0	0	0.0	0	10.3	< 1	165.5	< 1	0.0	0	0.0	0	6,345.4	3
Status 3	469.5	< 1	0.0	0	96.4	< 1	249.0	< 1	0.0	0	0.0	0	20,277.8	10
Status 4	0.0	0	0.0	0	6.7	< 1	0.0	0	0.0	0	169,941.6	86	170,097.4	86
Total	469.5	< 1	17.6	< 1	113.3	< 1	592.0	< 1	26.2	< 1	169,941.6	86	197,953.3	100

Common Name: DIAMONDBACK TERRAPIN

Scientific Name: *MALACLEMYS TERRAPIN*

ITIS TSN: 173780

NS EICode: ARAAD06010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	344.1	1	0.0	0	0.0	0	0.0	0	624.0	2	2.4	< 1	120.8	< 1
Status 2	1,879.3	7	0.0	0	1,336.7	5	0.0	0	124.8	< 1	0.0	0	588.0	2
Status 3	0.0	0	44.9	< 1	707.5	3	1,217.5	4	0.0	0	< 0.1	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	47.3	< 1	0.0	0	0.0	0	0.0	0
Total	2,223.4	8	44.9	< 1	2,044.2	7	1,264.9	5	748.8	3	2.5	< 1	708.8	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	693.9	3	0.0	0	256.4	< 1	0.0	0	0.0	0	2,041.6	7
Status 2	0.0	0	118.3	< 1	1.1	< 1	57.9	< 1	0.0	0	0.0	0	4,106.0	15
Status 3	0.0	0	0.0	0	0.0	0	69.7	< 1	4.2	< 1	0.0	0	2,043.9	7
Status 4	0.0	0	0.0	0	0.5	< 1	0.0	0	0.0	0	19,446.6	70	19,494.5	70
Total	0.0	0	812.2	3	1.6	< 1	383.9	1	4.2	< 1	19,446.6	70	27,685.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RIVER COOTER

Scientific Name: PSEUDEMYS CONCINNA

ITIS TSN: 173805

NS EICode: ARAAD07020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	883.7	< 1	0.0	0	0.0	0	2,617.1	< 1	15.0	< 1	720.7	< 1
Status 2	15,123.6	< 1	0.0	0	4.4	< 1	0.0	0	5,013.2	< 1	398.8	< 1	10,140.6	< 1
Status 3	0.0	0	6,941.7	< 1	126.5	< 1	21,596.9	1	21.7	< 1	839.0	< 1	5,935.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,923.8	< 1	16.0	< 1	0.0	0	405.0	< 1
Total	15,123.6	< 1	7,825.4	< 1	131.0	< 1	23,520.7	1	7,668.0	< 1	1,252.8	< 1	17,201.8	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	690.8	< 1	31.8	< 1	569.3	< 1	27.4	< 1	0.0	0	5,555.9	< 1
Status 2	0.0	0	0.0	0	708.3	< 1	750.2	< 1	0.0	0	59.9	< 1	32,198.9	2
Status 3	798.8	< 1	0.0	0	1,090.6	< 1	1,417.3	< 1	827.1	< 1	0.0	0	39,595.1	2
Status 4	0.0	0	0.0	0	14.8	< 1	65.7	< 1	224.8	< 1	1,574,203.8	95	1,576,853.9	95
Total	798.8	< 1	690.8	< 1	1,845.5	< 1	2,802.6	< 1	1,079.3	< 1	1,574,263.6	95	1,654,203.8	100

Common Name: FLORIDA COOTER

Scientific Name: PSEUDEMYS FLORIDANA

ITIS TSN: 173809

NS EICode: ARAAD07030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	869.6	< 1	0.0	0	0.0	0	1,776.7	< 1	15.0	< 1	651.0	< 1
Status 2	15,055.0	1	0.0	0	4.4	< 1	0.0	0	3,485.4	< 1	309.2	< 1	6,986.1	< 1
Status 3	0.0	0	6,409.4	< 1	117.5	< 1	21,559.4	2	21.7	< 1	659.0	< 1	5,776.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,923.8	< 1	0.2	< 1	0.0	0	405.0	< 1
Total	15,055.0	1	7,278.9	< 1	121.9	< 1	23,483.3	2	5,284.0	< 1	983.2	< 1	13,818.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	690.8	< 1	31.8	< 1	403.9	< 1	27.4	< 1	0.0	0	4,466.2	< 1
Status 2	0.0	0	0.0	0	173.8	< 1	584.4	< 1	0.0	0	59.9	< 1	26,658.1	2
Status 3	763.7	< 1	0.0	0	666.5	< 1	1,185.5	< 1	823.7	< 1	0.0	0	37,982.8	3
Status 4	0.0	0	0.0	0	14.8	< 1	1.9	< 1	108.0	< 1	1,049,461.5	94	1,051,915.1	94
Total	763.7	< 1	690.8	< 1	886.8	< 1	2,175.7	< 1	959.0	< 1	1,049,521.3	94	1,121,022.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: REDBELLY TURTLE

Scientific Name: PSEUDEMYD RUMRIVENTRIS

ITIS TSN: 173814

NS EICode: ARAAD07050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	0.0	0	0.0	0	0.0	0	883.1	< 1	52.7	< 1	140.5	< 1
Status 2	15,419.9	10	0.0	0	0.0	0	0.0	0	671.6	< 1	0.0	0	1,634.6	1
Status 3	0.0	0	0.0	0	753.2	< 1	2,366.8	1	0.0	0	101.8	< 1	27.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	15,769.4	10	0.0	0	753.2	< 1	2,366.8	1	1,554.7	< 1	154.5	< 1	1,802.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	917.6	< 1	0.0	0	193.4	< 1	0.0	0	0.0	0	2,536.8	2
Status 2	0.0	0	0.0	0	5.0	< 1	353.6	< 1	0.0	0	66.2	< 1	18,150.8	11
Status 3	0.0	0	0.0	0	0.0	0	197.3	< 1	4.7	< 1	0.0	0	3,451.2	2
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	103.6	< 1	134,936.4	85	135,040.0	85
Total	0.0	0	917.6	< 1	5.0	< 1	744.3	< 1	108.3	< 1	135,002.5	85	159,178.9	100

Common Name: EASTERN BOX TURTLE

Scientific Name: TERRAPENE CAROLINA

ITIS TSN: 173776

NS EICode: ARAAD08010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.2	< 1	39,576.1	< 1	100,300.8	< 1	0.0	0	22,661.6	< 1	589.8	< 1	5,004.1	< 1
Status 2	113,487.7	< 1	0.0	0	18,273.5	< 1	0.0	0	25,564.7	< 1	1,454.0	< 1	88,473.6	< 1
Status 3	0.0	0	449,892.5	4	1,779.3	< 1	141,426.7	1	49.2	< 1	34,393.5	< 1	31,795.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,136.2	< 1	47.0	< 1	0.0	0	1,583.6	< 1
Total	113,512.9	< 1	489,468.5	4	120,353.6	1	143,562.9	1	48,322.5	< 1	36,437.2	< 1	126,857.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,694.6	< 1	11.8	< 1	9,604.4	< 1	234.5	< 1	0.0	0	185,702.8	2
Status 2	711.8	< 1	27.1	< 1	9,292.0	< 1	6,924.0	< 1	0.0	0	261.4	< 1	264,469.5	2
Status 3	17,319.6	< 1	0.0	0	2,212.2	< 1	7,134.4	< 1	4,380.3	< 1	0.0	0	690,383.6	6
Status 4	0.0	0	0.0	0	122.0	< 1	828.3	< 1	1,623.3	< 1	10,789,163.0	90	10,795,503.4	90
Total	18,031.4	< 1	7,721.6	< 1	11,638.0	< 1	24,491.0	< 1	6,238.2	< 1	10,789,424.4	90	11,936,059.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: YELLOWBELLY SLIDER

Scientific Name: TRACHEMYS SCRIPTA

ITIS TSN: 173819

NS EICode: ARAAD09010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	869.6	< 1	0.0	0	0.0	0	2,582.9	< 1	52.7	< 1	809.5	< 1
Status 2	17,474.3	1	0.0	0	1,391.2	< 1	0.0	0	4,919.9	< 1	400.7	< 1	9,659.0	< 1
Status 3	0.0	0	6,546.1	< 1	965.9	< 1	23,983.2	1	21.8	< 1	842.4	< 1	5,955.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,974.2	< 1	16.2	< 1	0.0	0	412.2	< 1
Total	17,823.8	1	7,415.6	< 1	2,357.1	< 1	25,957.4	2	7,540.8	< 1	1,295.8	< 1	16,836.3	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,565.1	< 1	31.8	< 1	847.4	< 1	27.4	< 1	0.0	0	7,135.8	< 1
Status 2	0.0	0	128.3	< 1	652.7	< 1	877.8	< 1	0.0	0	66.2	< 1	35,570.1	2
Status 3	799.3	< 1	0.0	0	1,128.1	< 1	1,522.1	< 1	875.2	< 1	0.0	0	42,639.6	3
Status 4	0.0	0	0.0	0	23.7	< 1	49.8	< 1	224.8	< 1	1,555,916.0	95	1,558,616.9	95
Total	799.3	< 1	1,693.4	< 1	1,836.2	< 1	3,297.1	< 1	1,127.3	< 1	1,555,982.3	95	1,643,962.3	100

Common Name: STRIPED MUD TURTLE

Scientific Name: KINOSTERNON BAURII

ITIS TSN: 173765

NS EICode: ARAAE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	34.5	< 1	1,615.4	< 1	0.0	0	0.0	0	3,563.6	< 1	296.0	< 1	2,077.8	< 1
Status 2	39,077.3	5	0.0	0	83.5	< 1	0.0	0	2,807.0	< 1	613.8	< 1	9,951.2	1
Status 3	0.0	0	10,075.2	1	446.8	< 1	27,796.5	4	21.9	< 1	1,439.4	< 1	1,432.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	88.1	< 1	0.0	0	0.0	0	145.0	< 1
Total	39,111.8	5	11,690.6	2	530.3	< 1	27,884.6	4	6,392.4	< 1	2,349.2	< 1	13,606.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,059.3	< 1	26.6	< 1	1,016.0	< 1	54.5	< 1	0.0	0	11,743.7	2
Status 2	0.0	0	21.2	< 1	80.8	< 1	1,585.9	< 1	0.0	0	173.5	< 1	54,394.2	7
Status 3	1,321.9	< 1	0.0	0	380.5	< 1	3,444.3	< 1	36.2	< 1	0.0	0	46,395.1	6
Status 4	0.0	0	0.0	0	31.9	< 1	3.4	< 1	38.6	< 1	653,744.4	85	654,051.4	85
Total	1,321.9	< 1	3,080.4	< 1	519.8	< 1	6,049.6	< 1	129.3	< 1	653,918.0	85	766,584.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN MUD TURTLE
Scientific Name: KINOSTERNON SUBRUBRUM

ITIS TSN: 173763
NS EICode: ARAAE01050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	344.0	< 1	492.3	< 1	0.0	0	0.0	0	1,893.6	< 1	52.7	< 1	710.7	< 1
Status 2	14,553.2	3	0.0	0	1,326.2	< 1	0.0	0	1,638.6	< 1	236.7	< 1	4,567.0	1
Status 3	0.0	0	3,599.8	< 1	759.3	< 1	11,129.3	2	14.0	< 1	434.9	< 1	2,353.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,515.2	< 1	5.2	< 1	0.0	0	144.7	< 1
Total	14,897.2	3	4,092.1	< 1	2,085.6	< 1	12,644.6	3	3,551.4	< 1	724.3	< 1	7,776.0	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,407.5	< 1	14.4	< 1	577.6	< 1	25.6	< 1	0.0	0	5,518.4	1
Status 2	0.0	0	121.1	< 1	209.3	< 1	550.9	< 1	0.0	0	47.1	< 1	23,250.1	5
Status 3	440.2	< 1	0.0	0	363.2	< 1	1,181.2	< 1	74.4	< 1	0.0	0	20,349.9	5
Status 4	0.0	0	0.0	0	10.8	< 1	16.5	< 1	29.3	< 1	399,538.4	89	401,260.1	89
Total	440.2	< 1	1,528.7	< 1	597.7	< 1	2,326.1	< 1	129.2	< 1	399,585.4	89	450,378.5	100

Common Name: LOGGERHEAD MUSK TURTLE
Scientific Name: STERNOTHERUS MINOR

ITIS TSN: 173761
NS EICode: ARAAE02030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	27.7	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	3,152.6	6	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,180.3	7	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	27.7	< 1
Status 2	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0	0.0	0	2.3	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	3,152.6	6
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	45,373.1	93	45,373.1	93
Total	0.0	0	0.0	0	0.0	0	2.3	< 1	0.0	0	45,373.1	93	48,555.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON MUSK TURTLE
Scientific Name: STERNOTHERUS ODORATUS

ITIS TSN: 173758
NS EICode: ARAAE02040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,047.6	< 1	6,849.7	< 1	0.0	0	3,055.0	< 1	15.0	< 1	921.6	< 1
Status 2	15,126.2	< 1	0.0	0	1,314.5	< 1	0.0	0	5,629.5	< 1	404.8	< 1	10,906.7	< 1
Status 3	0.0	0	39,500.3	2	158.9	< 1	22,184.3	1	21.8	< 1	843.1	< 1	5,950.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,031.0	< 1	16.2	< 1	0.0	0	410.8	< 1
Total	15,126.2	< 1	41,547.9	2	8,323.1	< 1	24,215.3	1	8,722.4	< 1	1,263.0	< 1	18,189.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	691.4	< 1	31.8	< 1	634.2	< 1	27.4	< 1	0.0	0	14,273.6	< 1
Status 2	91.0	< 1	0.0	0	1,264.9	< 1	880.8	< 1	0.0	0	59.9	< 1	35,678.2	2
Status 3	1,202.8	< 1	0.0	0	1,128.1	< 1	1,493.9	< 1	870.4	< 1	0.0	0	73,353.9	4
Status 4	0.0	0	0.0	0	15.8	< 1	111.2	< 1	264.7	< 1	1,846,833.9	94	1,849,683.7	94
Total	1,293.7	< 1	691.4	< 1	2,440.5	< 1	3,120.2	< 1	1,162.4	< 1	1,846,893.8	94	1,972,989.4	100

Common Name: SPINY SOFTSHELL
Scientific Name: APALONE SPINIFERA

ITIS TSN: 208680
NS EICode: ARAAG01030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	179.0	< 1	0.0	0	11.5	< 1
Status 2	169.5	< 1	0.0	0	12.2	< 1	0.0	0	428.9	< 1	21.4	< 1	0.0	0
Status 3	0.0	0	926.9	2	0.0	0	125.6	< 1	0.0	0	0.0	0	27.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.4	< 1	0.0	0	0.0	0
Total	169.5	< 1	926.9	2	12.2	< 1	125.6	< 1	608.3	1	21.4	< 1	39.2	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	86.5	< 1	0.0	0	0.0	0	277.0	< 1
Status 2	0.0	0	0.0	0	220.2	< 1	65.0	< 1	0.0	0	0.0	0	917.3	2
Status 3	109.8	< 1	0.0	0	0.0	0	104.4	< 1	0.0	0	0.0	0	1,294.4	2
Status 4	0.0	0	0.0	0	0.0	0	4.1	< 1	0.0	0	53,783.5	96	53,788.0	96
Total	109.8	< 1	0.0	0	220.2	< 1	260.0	< 1	0.0	0	53,783.5	96	56,276.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: AMERICAN ALLIGATOR
Scientific Name: ALLIGATOR MISSISSIPPIENSIS

ITIS TSN: 551771
NS EICode: ARABA01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	507.1	< 1	0.0	0	0.0	0	1,237.4	< 1	37.7	< 1	692.0	< 1
Status 2	15,112.4	2	0.0	0	1,403.2	< 1	0.0	0	1,318.5	< 1	247.2	< 1	2,869.8	< 1
Status 3	0.0	0	4,068.1	< 1	957.8	< 1	19,590.4	3	15.0	< 1	483.9	< 1	3,096.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	49.3	< 1	0.5	< 1	0.0	0	278.0	< 1
Total	15,461.9	2	4,575.2	< 1	2,361.0	< 1	19,639.7	3	2,571.4	< 1	768.9	< 1	6,936.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,565.2	< 1	0.0	0	574.6	< 1	27.4	< 1	0.0	0	4,990.8	< 1
Status 2	0.0	0	167.8	< 1	14.6	< 1	668.1	< 1	0.0	0	66.2	< 1	21,867.8	3
Status 3	653.0	< 1	0.0	0	168.5	< 1	1,222.2	< 1	496.1	< 1	0.0	0	30,751.1	5
Status 4	0.0	0	0.0	0	85.8	< 1	1.6	< 1	103.9	< 1	584,485.7	91	585,004.8	91
Total	653.0	< 1	1,733.0	< 1	268.8	< 1	2,466.5	< 1	627.3	< 1	584,552.0	91	642,614.5	100

Common Name: SLENDER GLASS LIZARD
Scientific Name: OPHISAURUS ATTENUATUS

ITIS TSN: 174106
NS EICode: ARACB02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.8	< 1	358.7	< 1	187.6	< 1	0.0	0	882.3	< 1	1.8	< 1	170.8	< 1
Status 2	5,267.9	< 1	0.0	0	47.7	< 1	0.0	0	1,863.4	< 1	162.2	< 1	5,119.5	< 1
Status 3	0.0	0	12,286.0	< 1	33.5	< 1	66,863.8	3	18.2	< 1	4,864.7	< 1	20,094.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	308.3	< 1	5.0	< 1	0.0	0	813.6	< 1
Total	5,288.7	< 1	12,644.6	< 1	268.7	< 1	67,172.0	3	2,768.9	< 1	5,028.7	< 1	26,198.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	147.2	< 1	3.5	< 1	727.2	< 1	143.5	< 1	0.0	0	2,643.3	< 1
Status 2	0.0	0	21.4	< 1	408.7	< 1	535.6	< 1	0.0	0	18.5	< 1	13,444.8	< 1
Status 3	4,795.4	< 1	0.0	0	610.5	< 1	1,199.5	< 1	1,032.8	< 1	0.0	0	111,799.2	4
Status 4	0.0	0	0.0	0	67.0	< 1	47.0	< 1	182.6	< 1	2,503,319.7	95	2,504,743.1	95
Total	4,795.4	< 1	168.7	< 1	1,089.6	< 1	2,509.3	< 1	1,358.9	< 1	2,503,338.2	95	2,632,630.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN GLASS LIZARD
Scientific Name: OPHISAURUS VENTRALIS

ITIS TSN: 174110
NS EICode: ARACB02030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.0	< 1	12,496.0	< 1	0.0	0	0.0	0	2,079.5	< 1	0.0	0	1,469.5	< 1
Status 2	77,021.4	3	0.0	0	972.2	< 1	0.0	0	2,683.0	< 1	172.4	< 1	41,850.1	2
Status 3	0.0	0	46,377.9	2	2,030.5	< 1	114,722.8	5	7.8	< 1	29,007.4	1	22,062.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	24.0	< 1	0.0	0	0.0	0	1,080.2	< 1
Total	77,027.4	3	58,873.9	2	3,002.7	< 1	114,746.9	5	4,770.4	< 1	29,179.8	1	66,461.9	3
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,328.4	< 1	4.4	< 1	6,050.3	< 1	99.4	< 1	0.0	0	28,533.6	1
Status 2	0.0	0	17.7	< 1	120.8	< 1	3,808.9	< 1	0.0	0	204.8	< 1	126,851.3	5
Status 3	11,406.6	< 1	0.0	0	302.8	< 1	1,729.9	< 1	524.8	< 1	0.0	0	228,172.5	9
Status 4	0.0	0	0.0	0	68.4	< 1	48.7	< 1	169.9	< 1	2,049,445.1	84	2,050,836.3	84
Total	11,406.6	< 1	6,346.2	< 1	496.4	< 1	11,637.8	< 1	794.1	< 1	2,049,649.9	84	2,434,393.7	100

Common Name: MIMIC GLASS LIZARD
Scientific Name: OPHISAURUS MIMICUS

ITIS TSN: 209006
NS EICode: ARACB02040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	77.0	< 1	0.0	0	0.0	0	150.9	< 1	0.0	0	0.0	0
Status 2	165.7	< 1	0.0	0	0.0	0	0.0	0	271.0	< 1	0.0	0	899.5	< 1
Status 3	0.0	0	2,578.8	2	13.8	< 1	7,723.1	7	0.0	0	301.5	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	< 0.1	< 1	0.0	0	0.0	0	0.0	0
Total	165.7	< 1	2,655.8	2	13.8	< 1	7,723.2	7	421.9	< 1	301.5	< 1	899.5	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	220.9	< 1	51.3	< 1	0.0	0	500.1	< 1
Status 2	0.0	0	0.0	0	23.4	< 1	80.9	< 1	0.0	0	0.0	0	1,440.5	1
Status 3	2,943.8	3	0.0	0	0.0	0	420.8	< 1	0.0	0	0.0	0	13,981.7	12
Status 4	0.0	0	0.0	0	6.1	< 1	0.0	0	0.0	0	98,160.4	86	98,166.6	86
Total	2,943.8	3	0.0	0	29.5	< 1	722.5	< 1	51.3	< 1	98,160.4	86	114,088.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: GREEN ANOLE

Scientific Name: ANOLIS CAROLINENSIS

ITIS TSN: 173885

NS EICode: ARACF01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	20,195.0	< 1	30,312.7	< 1	0.0	0	17,098.8	< 1	909.6	< 1	8,008.1	< 1
Status 2	117,706.6	2	0.0	0	2,380.1	< 1	0.0	0	17,768.7	< 1	1,088.7	< 1	75,153.8	1
Status 3	0.0	0	171,971.8	3	2,611.3	< 1	90,956.3	2	36.0	< 1	33,162.8	< 1	15,254.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,020.6	< 1	0.2	< 1	0.0	0	783.2	< 1
Total	117,711.4	2	192,166.8	3	35,304.0	< 1	92,976.9	2	34,903.7	< 1	35,161.2	< 1	99,199.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,685.0	< 1	11.4	< 1	8,079.8	< 1	222.0	< 1	0.0	0	93,527.4	2
Status 2	519.7	< 1	24.2	< 1	3,316.8	< 1	5,933.2	< 1	0.0	0	321.0	< 1	224,212.7	4
Status 3	13,935.4	< 1	0.0	0	1,649.4	< 1	11,600.0	< 1	1,413.6	< 1	0.0	0	342,591.6	6
Status 4	0.0	0	0.0	0	82.9	< 1	554.2	< 1	861.3	< 1	5,125,469.4	89	5,129,771.8	89
Total	14,455.1	< 1	8,709.2	< 1	5,060.5	< 1	26,167.2	< 1	2,497.0	< 1	5,125,790.4	89	5,790,103.4	100

Common Name: TEXAS HORNED LIZARD

Scientific Name: PHRYNOSOMA CORNUTUM

ITIS TSN: 173938

NS EICode: ARACF12010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1.9	< 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0	0.8	< 1	0.0	0	0.0	0
Status 3	0.0	0	347.3	22	0.0	0	407.0	25	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	349.2	22	0.0	0	407.0	25	0.8	< 1	0.0	0	0.0	0
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	1.9	< 1
Status 2	0.0	0	0.0	0	9.3	< 1	4.0	< 1	0.0	0	0.0	0	14.0	< 1
Status 3	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	754.3	47
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	838.7	52	838.7	52
Total	0.0	0	0.0	0	9.3	< 1	4.0	< 1	0.0	0	838.7	52	1,608.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN FENCE LIZARD
Scientific Name: SCELOPORUS UNDULATUS

ITIS TSN: 173865
NS EICode: ARACF14130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.2	< 1	4,512.6	< 1	10,419.5	< 1	0.0	0	7,300.9	< 1	5.1	< 1	350.2	< 1
Status 2	12,863.3	< 1	0.0	0	2,703.5	< 1	0.0	0	11,814.8	< 1	219.4	< 1	21,593.9	< 1
Status 3	0.0	0	65,197.4	2	1,203.3	< 1	69,835.0	2	9.1	< 1	11,076.8	< 1	21,683.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	258.1	< 1	9.5	< 1	0.0	0	766.5	< 1
Total	12,866.4	< 1	69,710.0	2	14,326.3	< 1	70,093.1	2	19,134.3	< 1	11,301.3	< 1	44,393.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	860.4	< 1	5.9	< 1	1,205.8	< 1	19.4	< 1	0.0	0	24,683.0	< 1
Status 2	124.1	< 1	4.6	< 1	1,277.0	< 1	1,670.2	< 1	0.0	0	16.6	< 1	52,287.3	1
Status 3	6,243.3	< 1	0.0	0	1,277.1	< 1	1,715.1	< 1	2,037.4	< 1	0.0	0	180,277.6	5
Status 4	0.0	0	0.0	0	50.2	< 1	147.8	< 1	265.7	< 1	3,276,858.3	93	3,278,356.1	93
Total	6,367.4	< 1	865.0	< 1	2,610.3	< 1	4,739.0	< 1	2,322.5	< 1	3,276,874.9	93	3,535,604.0	100

Common Name: COAL SKINK
Scientific Name: EUMECES ANTHRACINUS

ITIS TSN: 173962
NS EICode: ARACH01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	22,123.4	1	88,439.5	5	0.0	0	7,307.1	< 1	0.0	0	1,718.0	< 1
Status 2	0.0	0	0.0	0	14,319.8	< 1	0.0	0	5,519.5	< 1	24.6	< 1	13,611.7	< 1
Status 3	0.0	0	341,556.8	18	79.7	< 1	363.3	< 1	0.0	0	45.9	< 1	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	109.3	< 1	0.0	0	0.0	0	0.0	0
Total	0.0	0	363,680.2	19	102,839.0	5	472.6	< 1	12,826.6	< 1	70.5	< 1	15,329.7	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	1,565.9	< 1	1.2	< 1	0.0	0	121,155.0	6
Status 2	623.6	< 1	0.0	0	6,661.6	< 1	923.4	< 1	0.0	0	0.0	0	41,684.2	2
Status 3	2,469.3	< 1	0.0	0	0.0	0	2,480.8	< 1	0.0	0	0.0	0	346,995.8	18
Status 4	0.0	0	0.0	0	0.0	0	538.6	< 1	52.2	< 1	1,432,708.3	74	1,433,408.3	74
Total	3,092.9	< 1	0.0	0	6,661.6	< 1	5,508.6	< 1	53.4	< 1	1,432,708.3	74	1,943,243.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: FIVE-LINED SKINK
Scientific Name: EUMECES FASCIATUS

ITIS TSN: 173959
NS EICode: ARACH01050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,065.2	< 1	96,780.7	1	0.0	0	21,462.0	< 1	909.6	< 1	8,245.8	< 1
Status 2	117,306.2	2	0.0	0	15,406.6	< 1	0.0	0	22,756.8	< 1	1,261.5	< 1	85,812.0	1
Status 3	0.0	0	407,562.7	5	1,674.5	< 1	96,697.4	1	30.9	< 1	33,714.6	< 1	15,267.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,036.1	< 1	38.7	< 1	0.0	0	772.7	< 1
Total	117,311.0	2	444,627.8	6	113,861.8	1	98,733.5	1	44,288.4	< 1	35,885.8	< 1	110,097.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,408.1	< 1	11.4	< 1	9,799.8	< 1	222.2	< 1	0.0	0	182,909.6	2
Status 2	624.0	< 1	24.2	< 1	8,678.2	< 1	6,737.7	< 1	0.0	0	320.8	< 1	258,927.9	3
Status 3	14,894.2	< 1	0.0	0	1,679.8	< 1	14,121.2	< 1	2,579.9	< 1	0.0	0	588,222.3	8
Status 4	0.0	0	0.0	0	82.6	< 1	700.7	< 1	912.8	< 1	6,674,526.4	87	6,679,069.8	87
Total	15,518.2	< 1	8,432.3	< 1	10,452.0	< 1	31,359.3	< 1	3,714.9	< 1	6,674,847.1	87	7,709,129.6	100

Common Name: SOUTHEASTERN FIVE-LINED SKINK
Scientific Name: EUMECES INEXPECTATUS

ITIS TSN: 173960
NS EICode: ARACH01070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,488.3	< 1	3,099.1	< 1	0.0	0	2,618.9	< 1	214.4	< 1	504.5	< 1
Status 2	60,958.2	1	0.0	0	3,064.9	< 1	0.0	0	3,757.7	< 1	212.8	< 1	43,522.4	1
Status 3	0.0	0	57,934.8	1	2,282.6	< 1	111,182.8	3	22.1	< 1	22,567.1	< 1	23,121.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,675.0	< 1	5.5	< 1	0.0	0	973.1	< 1
Total	60,984.0	1	72,423.1	2	8,446.5	< 1	112,857.8	3	6,404.1	< 1	22,994.3	< 1	68,121.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,721.2	< 1	17.2	< 1	6,165.1	< 1	178.9	< 1	0.0	0	30,033.4	< 1
Status 2	80.4	< 1	60.2	< 1	875.9	< 1	1,868.6	< 1	0.0	0	50.9	< 1	114,451.9	3
Status 3	9,937.2	< 1	0.0	0	981.5	< 1	1,994.9	< 1	1,145.5	< 1	0.0	0	231,170.0	5
Status 4	0.0	0	0.0	0	150.6	< 1	122.8	< 1	232.0	< 1	3,866,247.2	91	3,869,406.1	91
Total	10,017.6	< 1	2,781.4	< 1	2,025.2	< 1	10,151.3	< 1	1,556.5	< 1	3,866,298.1	91	4,245,061.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BROADHEAD SKINK
Scientific Name: EUMECES LATICEPS

ITIS TSN: 173961
NS EICode: ARACH01080

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,065.2	< 1	96,778.6	1	0.0	0	21,478.3	< 1	909.6	< 1	8,442.4	< 1
Status 2	117,557.4	2	0.0	0	15,399.1	< 1	0.0	0	23,140.2	< 1	1,389.0	< 1	85,806.8	1
Status 3	0.0	0	407,537.3	5	1,675.4	< 1	96,748.4	1	36.0	< 1	33,720.6	< 1	15,029.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	974.4	< 1	38.7	< 1	0.0	0	783.2	< 1
Total	117,562.1	2	444,602.4	6	113,853.1	1	97,722.8	1	44,693.2	< 1	36,019.2	< 1	110,061.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,432.0	< 1	9.1	< 1	9,817.9	< 1	222.2	< 1	0.0	0	183,160.1	2
Status 2	623.6	< 1	24.2	< 1	8,647.8	< 1	6,764.2	< 1	0.0	0	321.0	< 1	259,673.3	3
Status 3	14,895.7	< 1	0.0	0	1,632.9	< 1	14,231.5	< 1	2,581.9	< 1	0.0	0	588,089.2	8
Status 4	0.0	0	0.0	0	82.9	< 1	700.5	< 1	913.2	< 1	6,799,899.2	87	6,803,392.1	87
Total	15,519.4	< 1	8,456.2	< 1	10,372.7	< 1	31,514.1	< 1	3,717.4	< 1	6,800,220.2	87	7,834,314.6	100

Common Name: GROUND SKINK
Scientific Name: SCINCELLA LATERALIS

ITIS TSN: 174008
NS EICode: ARACH03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,269.7	< 1	64,054.4	< 1	0.0	0	23,993.6	< 1	909.6	< 1	8,591.9	< 1
Status 2	118,140.6	1	0.0	0	10,769.8	< 1	0.0	0	25,426.1	< 1	1,431.9	< 1	88,890.8	1
Status 3	0.0	0	372,650.8	5	2,313.4	< 1	136,035.5	2	36.0	< 1	33,824.4	< 1	30,829.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,039.5	< 1	44.0	< 1	0.0	0	1,161.9	< 1
Total	118,145.3	1	409,920.5	5	77,137.6	< 1	138,074.9	2	49,499.6	< 1	36,166.0	< 1	129,473.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,681.0	< 1	11.8	< 1	8,868.7	< 1	222.2	< 1	0.0	0	152,607.8	2
Status 2	663.3	< 1	24.2	< 1	9,536.3	< 1	6,723.1	< 1	0.0	0	321.0	< 1	261,927.1	3
Status 3	16,231.1	< 1	0.0	0	1,995.9	< 1	11,870.1	< 1	2,787.7	< 1	0.0	0	608,574.1	8
Status 4	0.0	0	0.0	0	88.7	< 1	744.8	< 1	955.4	< 1	6,986,333.0	87	6,991,367.2	87
Total	16,894.4	< 1	8,705.3	< 1	11,632.7	< 1	28,206.7	< 1	3,965.2	< 1	6,986,654.0	87	8,014,476.2	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SIX-LINED RACERUNNER

Scientific Name: CNEMIDOPHORUS SEXLINEATUS

ITIS TSN: 174014

NS EICode: ARACJ02110

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.4	< 1	759.5	< 1	1,124.6	< 1	0.0	0	3,528.5	< 1	0.2	< 1	308.6	< 1
Status 2	8,015.2	< 1	0.0	0	3,182.4	< 1	0.0	0	4,603.7	< 1	333.1	< 1	8,537.0	< 1
Status 3	0.0	0	16,115.8	< 1	3,266.5	< 1	71,362.7	1	22.0	< 1	1,595.3	< 1	19,572.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	133.8	< 1	8.7	< 1	0.0	0	1,069.3	< 1
Total	8,035.7	< 1	16,875.3	< 1	7,573.4	< 1	71,496.5	1	8,162.9	< 1	1,928.6	< 1	29,487.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	464.8	< 1	0.4	< 1	701.7	< 1	73.5	< 1	0.0	0	6,982.2	< 1
Status 2	56.4	< 1	128.0	< 1	543.6	< 1	882.5	< 1	0.0	0	17.5	< 1	26,299.2	< 1
Status 3	3,926.2	< 1	0.0	0	672.9	< 1	1,326.3	< 1	2,024.5	< 1	0.0	0	119,884.6	2
Status 4	0.0	0	0.0	0	281.5	< 1	119.9	< 1	722.6	< 1	4,742,459.1	97	4,744,795.0	97
Total	3,982.5	< 1	592.7	< 1	1,498.4	< 1	3,030.4	< 1	2,820.6	< 1	4,742,476.6	97	4,897,961.0	100

Common Name: WORM SNAKE

Scientific Name: CARPHOPHIS AMOENUS

ITIS TSN: 174161

NS EICode: ARADB02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.2	< 1	25,007.5	< 1	96,748.8	2	0.0	0	11,876.9	< 1	213.6	< 1	2,409.7	< 1
Status 2	17,895.4	< 1	0.0	0	15,327.4	< 1	0.0	0	19,058.6	< 1	582.3	< 1	34,622.6	< 1
Status 3	0.0	0	371,904.3	6	1,282.4	< 1	46,149.1	< 1	14.6	< 1	13,514.6	< 1	10,731.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	608.4	< 1	30.6	< 1	0.0	0	576.7	< 1
Total	17,898.6	< 1	396,911.8	6	113,358.6	2	46,757.5	< 1	30,980.6	< 1	14,310.5	< 1	48,340.8	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,190.1	< 1	8.5	< 1	3,306.1	< 1	152.2	< 1	0.0	0	140,916.3	2
Status 2	611.2	< 1	4.6	< 1	8,359.3	< 1	3,165.2	< 1	0.0	0	86.4	< 1	99,713.0	2
Status 3	7,946.8	< 1	0.0	0	1,472.8	< 1	6,365.9	< 1	2,519.9	< 1	0.0	0	461,902.1	7
Status 4	0.0	0	0.0	0	50.9	< 1	653.0	< 1	564.2	< 1	5,607,918.2	89	5,610,402.1	89
Total	8,558.0	< 1	1,194.7	< 1	9,891.5	< 1	13,490.2	< 1	3,236.3	< 1	5,608,004.6	89	6,312,933.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SCARLET SNAKE

Scientific Name: CEMOPHORA COCCINEA

ITIS TSN: 174195

NS EICode: ARADB03010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.5	< 1	7,833.3	< 1	22,300.8	< 1	0.0	0	8,471.6	< 1	4.0	< 1	825.3	< 1
Status 2	15,679.4	< 1	0.0	0	2,098.6	< 1	0.0	0	13,007.6	< 1	576.4	< 1	26,843.8	< 1
Status 3	0.0	0	134,402.5	2	235.6	< 1	70,482.5	1	26.8	< 1	2,315.4	< 1	23,621.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	437.1	< 1	32.4	< 1	0.0	0	1,064.7	< 1
Total	15,700.0	< 1	142,235.8	2	24,635.1	< 1	70,919.6	1	21,538.4	< 1	2,895.8	< 1	52,355.4	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	260.7	< 1	5.9	< 1	1,306.8	< 1	73.4	< 1	0.0	0	41,102.5	< 1
Status 2	0.0	0	4.4	< 1	1,455.2	< 1	1,292.8	< 1	0.0	0	20.9	< 1	60,979.1	< 1
Status 3	4,149.5	< 1	0.0	0	1,493.7	< 1	2,136.0	< 1	3,016.6	< 1	0.0	0	241,880.3	4
Status 4	0.0	0	0.0	0	55.0	< 1	451.0	< 1	980.0	< 1	6,399,490.1	95	6,402,510.3	95
Total	4,149.5	< 1	265.1	< 1	3,009.9	< 1	5,186.5	< 1	4,070.1	< 1	6,399,510.9	95	6,746,472.1	100

Common Name: RACER

Scientific Name: COLUBER CONSTRICTOR

ITIS TSN: 174169

NS EICode: ARADB07010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,842.1	< 1	41,745.2	< 1	111,204.9	< 1	0.0	0	25,982.6	< 1	915.8	< 1	9,134.0	< 1
Status 2	143,295.6	1	0.0	0	25,288.7	< 1	0.0	0	27,994.0	< 1	1,590.7	< 1	98,240.4	< 1
Status 3	0.0	0	458,612.3	4	6,809.0	< 1	160,079.2	1	52.0	< 1	35,110.3	< 1	32,607.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	3,020.8	< 1	47.3	< 1	0.0	0	1,659.4	< 1
Total	145,137.7	1	500,357.4	4	143,302.5	1	163,100.0	1	54,075.9	< 1	37,616.7	< 1	141,641.4	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,034.4	< 1	13.7	< 1	11,846.8	< 1	244.5	< 1	0.0	0	212,963.9	2
Status 2	719.7	< 1	292.8	< 1	9,813.5	< 1	8,172.5	< 1	0.0	0	338.9	< 1	315,746.6	3
Status 3	17,844.2	< 1	0.0	0	2,245.7	< 1	16,625.2	< 1	4,458.7	< 1	0.0	0	734,444.0	6
Status 4	0.0	0	0.0	0	357.9	< 1	852.2	< 1	1,637.0	< 1	11,272,568.9	90	11,280,143.5	90
Total	18,563.9	< 1	10,327.1	< 1	12,430.8	< 1	37,496.7	< 1	6,340.2	< 1	11,272,907.7	90	12,543,298.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RINGNECK SNAKE
Scientific Name: DIADOPHIS PUNCTATUS

ITIS TSN: 174158
NS EICode: ARADB10010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	37,757.8	< 1	96,469.5	1	0.0	0	20,188.0	< 1	580.8	< 1	4,358.3	< 1
Status 2	102,729.6	1	0.0	0	15,826.4	< 1	0.0	0	24,052.9	< 1	1,309.3	< 1	85,071.7	1
Status 3	0.0	0	433,250.6	5	1,691.0	< 1	134,545.1	2	33.9	< 1	33,200.6	< 1	30,352.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,069.6	< 1	44.0	< 1	0.0	0	1,128.0	< 1
Total	102,734.4	1	471,008.3	6	113,986.9	1	136,614.7	2	44,318.8	< 1	35,090.6	< 1	120,910.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,419.5	< 1	11.8	< 1	9,266.9	< 1	212.3	< 1	0.0	0	176,269.7	2
Status 2	656.3	< 1	22.7	< 1	8,815.1	< 1	6,188.9	< 1	0.0	0	244.2	< 1	244,916.9	3
Status 3	15,862.1	< 1	0.0	0	2,013.2	< 1	6,145.3	< 1	2,785.1	< 1	0.0	0	659,878.8	8
Status 4	0.0	0	0.0	0	85.4	< 1	739.4	< 1	1,000.7	< 1	7,287,551.2	87	7,292,618.3	87
Total	16,518.4	< 1	7,442.2	< 1	10,925.5	< 1	22,340.5	< 1	3,998.1	< 1	7,287,795.4	87	8,373,683.7	100

Common Name: CORN SNAKE
Scientific Name: ELAPHE GUTTATA

ITIS TSN: 174175
NS EICode: ARADB13020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.5	< 1	1,347.0	< 1	29.8	< 1	0.0	0	3,800.7	< 1	442.2	< 1	5,221.7	< 1
Status 2	41,842.9	2	0.0	0	232.6	< 1	0.0	0	6,549.7	< 1	872.5	< 1	21,470.5	< 1
Status 3	0.0	0	27,283.1	1	954.5	< 1	92,008.3	4	24.1	< 1	14,167.5	< 1	23,854.9	1
Status 4	0.0	0	0.0	0	0.0	0	1,445.6	< 1	0.0	0	0.0	0	966.4	< 1
Total	41,847.4	2	28,630.2	1	1,216.8	< 1	93,453.8	4	10,374.5	< 1	15,482.2	< 1	51,513.5	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,391.6	< 1	4.5	< 1	2,064.0	< 1	118.4	< 1	0.0	0	18,424.4	< 1
Status 2	12.4	< 1	16.7	< 1	488.0	< 1	3,879.7	< 1	0.0	0	221.1	< 1	75,586.1	3
Status 3	7,746.1	< 1	0.0	0	649.0	< 1	8,456.1	< 1	41.4	< 1	0.0	0	175,185.0	8
Status 4	0.0	0	0.0	0	54.9	< 1	88.7	< 1	414.0	< 1	2,013,874.7	88	2,016,844.3	88
Total	7,758.5	< 1	5,408.4	< 1	1,196.4	< 1	14,488.5	< 1	573.8	< 1	2,014,095.9	88	2,286,039.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RAT SNAKE
Scientific Name: *ELAPHE OBSOLETA*

ITIS TSN: 174177
NS EICode: ARADB13030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.8	< 1	14,736.4	< 1	5,648.1	< 1	0.0	0	2,944.7	< 1	214.4	< 1	504.5	< 1
Status 2	60,958.2	1	0.0	0	4,888.4	< 1	0.0	0	4,230.4	< 1	212.8	< 1	43,779.5	< 1
Status 3	0.0	0	63,837.2	1	2,282.6	< 1	111,200.5	2	22.1	< 1	22,569.6	< 1	23,121.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,675.0	< 1	5.5	< 1	0.0	0	973.1	< 1
Total	60,984.0	1	78,573.6	2	12,819.2	< 1	112,875.5	3	7,202.6	< 1	22,996.7	< 1	68,378.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,721.2	< 1	17.2	< 1	6,407.4	< 1	178.9	< 1	0.0	0	33,398.6	< 1
Status 2	80.4	< 1	60.2	< 1	1,021.7	< 1	1,952.6	< 1	0.0	0	50.9	< 1	117,235.1	3
Status 3	9,991.8	< 1	0.0	0	981.5	< 1	2,578.9	< 1	1,145.5	< 1	0.0	0	237,731.1	5
Status 4	0.0	0	0.0	0	150.6	< 1	134.8	< 1	279.7	< 1	4,061,971.5	91	4,065,190.2	91
Total	10,072.2	< 1	2,781.4	< 1	2,171.0	< 1	11,073.7	< 1	1,604.2	< 1	4,062,022.5	91	4,453,555.1	100

Common Name: MUD SNAKE
Scientific Name: *FARANCIA ABACURA*

ITIS TSN: 174164
NS EICode: ARADB14010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	70.4	< 1	0.0	0	0.0	0	1,171.7	< 1	14.7	< 1	571.0	< 1
Status 2	7,843.8	3	0.0	0	< 0.1	< 1	0.0	0	1,265.1	< 1	230.2	< 1	3,065.1	1
Status 3	0.0	0	1,324.7	< 1	59.6	< 1	4,971.1	2	14.0	< 1	243.2	< 1	1,375.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,464.3	< 1	0.0	0	0.0	0	99.0	< 1
Total	7,843.8	3	1,395.1	< 1	59.7	< 1	6,435.4	2	2,450.8	< 1	488.1	< 1	5,111.0	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	481.9	< 1	14.4	< 1	195.8	< 1	22.0	< 1	0.0	0	2,541.7	< 1
Status 2	0.0	0	0.0	0	142.4	< 1	310.1	< 1	0.0	0	35.6	< 1	12,892.5	5
Status 3	400.6	< 1	0.0	0	254.4	< 1	1,002.5	< 1	13.4	< 1	0.0	0	9,659.3	3
Status 4	0.0	0	0.0	0	5.0	< 1	0.0	0	6.8	< 1	253,722.7	90	255,297.8	91
Total	400.6	< 1	481.9	< 1	416.3	< 1	1,508.4	< 1	42.1	< 1	253,758.3	91	280,391.3	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: RAINBOW SNAKE

Scientific Name: FARANCIA ERYTHROGRAMMA

ITIS TSN: 174166

NS EICode: ARADB14020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,850.8	< 1	12,003.1	< 1	0.0	0	0.0	0	11,297.2	< 1	906.5	< 1	6,644.4	< 1
Status 2	117,289.1	8	0.0	0	2,952.4	< 1	0.0	0	4,164.4	< 1	793.2	< 1	53,559.1	4
Status 3	0.0	0	34,641.7	2	2,282.7	< 1	55,019.0	4	21.9	< 1	20,444.7	1	2,974.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	542.1	< 1	0.0	0	0.0	0	230.9	< 1
Total	119,139.8	8	46,644.8	3	5,235.0	< 1	55,561.1	4	15,483.4	1	22,144.3	1	63,408.5	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,286.3	< 1	0.0	0	7,500.5	< 1	58.3	< 1	0.0	0	48,547.1	3
Status 2	0.0	0	159.6	< 1	66.7	< 1	4,442.4	< 1	0.0	0	303.8	< 1	183,730.5	12
Status 3	6,934.7	< 1	0.0	0	56.7	< 1	10,088.8	< 1	89.5	< 1	0.0	0	132,553.6	9
Status 4	0.0	0	0.0	0	38.0	< 1	45.0	< 1	317.1	< 1	1,127,163.8	75	1,128,336.8	76
Total	6,934.7	< 1	8,445.9	< 1	161.4	< 1	22,076.7	1	464.9	< 1	1,127,467.5	76	1,493,168.0	100

Common Name: EASTERN HOGNOSE SNAKE

Scientific Name: HETERODON PLATIRHINOS

ITIS TSN: 563935

NS EICode: ARADB17020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	24.9	< 1	10,552.1	< 1	37,943.7	< 1	0.0	0	18,254.1	< 1	375.1	< 1	3,834.9	< 1
Status 2	55,231.9	< 1	0.0	0	8,486.6	< 1	0.0	0	22,739.0	< 1	1,403.2	< 1	47,942.0	< 1
Status 3	0.0	0	243,916.4	2	1,165.4	< 1	100,938.2	< 1	48.0	< 1	17,854.0	< 1	29,641.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,112.1	< 1	46.8	< 1	0.0	0	1,458.5	< 1
Total	55,256.9	< 1	254,468.5	2	47,595.7	< 1	103,050.4	< 1	41,087.9	< 1	19,632.3	< 1	82,876.3	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	5,007.9	< 1	11.8	< 1	2,911.9	< 1	199.7	< 1	0.0	0	79,116.1	< 1
Status 2	540.0	< 1	14.0	< 1	4,467.5	< 1	5,269.5	< 1	0.0	0	238.0	< 1	146,331.6	1
Status 3	11,762.9	< 1	0.0	0	2,088.5	< 1	4,272.6	< 1	4,141.5	< 1	0.0	0	415,828.4	4
Status 4	0.0	0	0.0	0	100.6	< 1	646.7	< 1	1,596.6	< 1	9,712,539.9	94	9,718,501.2	94
Total	12,302.9	< 1	5,021.8	< 1	6,668.4	< 1	13,100.7	< 1	5,937.8	< 1	9,712,777.9	94	10,359,777.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: SOUTHERN HOGNOSE SNAKE
Scientific Name: HETERODON SIMUS

ITIS TSN: 174156
NS EICode: ARADB17030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	77.0	< 1	0.0	0	0.0	0	734.0	< 1	0.0	0	0.0	0
Status 2	243.6	< 1	0.0	0	763.0	< 1	0.0	0	604.8	< 1	24.4	< 1	1,244.3	< 1
Status 3	0.0	0	2,712.2	< 1	14.0	< 1	54,557.0	13	0.0	0	381.1	< 1	17,229.2	4
Status 4	0.0	0	0.0	0	0.0	0	2.6	< 1	0.0	0	0.0	0	541.7	< 1
Total	243.6	< 1	2,789.2	< 1	777.1	< 1	54,559.6	13	1,338.8	< 1	405.5	< 1	19,015.2	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	17.5	< 1	0.4	< 1	297.5	< 1	51.3	< 1	0.0	0	1,177.7	< 1
Status 2	0.0	0	118.9	< 1	28.4	< 1	106.5	< 1	0.0	0	0.0	0	3,133.9	< 1
Status 3	2,996.5	< 1	0.0	0	204.3	< 1	483.8	< 1	0.0	0	0.0	0	78,578.0	18
Status 4	0.0	0	0.0	0	234.4	< 1	5.3	< 1	0.0	0	348,949.7	81	349,733.7	81
Total	2,996.5	< 1	136.4	< 1	467.4	< 1	893.2	< 1	51.3	< 1	348,949.7	81	432,623.3	100

Common Name: MOLE KINGSNAKE
Scientific Name: LAMPROPELTIS CALLIGASTER

ITIS TSN: 174185
NS EICode: ARADB19010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	20.5	< 1	19,280.5	< 1	0.0	0	0.0	0	13,364.6	< 1	5.3	< 1	2,362.0	< 1
Status 2	18,886.7	< 1	0.0	0	10,748.7	< 1	0.0	0	20,114.4	< 1	722.5	< 1	36,583.7	< 1
Status 3	0.0	0	210,414.9	2	366.1	< 1	82,519.6	< 1	28.6	< 1	13,100.8	< 1	27,085.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	472.3	< 1	33.1	< 1	0.0	0	1,373.0	< 1
Total	18,907.2	< 1	229,695.4	3	11,114.8	< 1	82,991.9	< 1	33,540.7	< 1	13,828.6	< 1	67,404.1	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	347.9	< 1	7.1	< 1	2,283.6	< 1	171.0	< 1	0.0	0	37,842.4	< 1
Status 2	609.3	< 1	6.9	< 1	1,762.1	< 1	2,813.9	< 1	0.0	0	28.8	< 1	92,277.1	1
Status 3	9,738.6	< 1	0.0	0	1,746.7	< 1	2,755.1	< 1	3,551.6	< 1	0.0	0	351,307.3	4
Status 4	0.0	0	0.0	0	77.9	< 1	721.4	< 1	1,177.8	< 1	8,125,847.3	94	8,129,702.9	94
Total	10,347.9	< 1	354.8	< 1	3,593.8	< 1	8,574.0	< 1	4,900.4	< 1	8,125,876.1	94	8,611,129.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COMMON KINGSLAKE
Scientific Name: LAMPROPELTIS GETULA

ITIS TSN: 209247
NS EICode: ARADB19020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,841.9	< 1	39,523.5	< 1	100,302.4	< 1	0.0	0	24,527.6	< 1	801.5	< 1	5,579.6	< 1
Status 2	130,470.5	1	0.0	0	23,425.3	< 1	0.0	0	26,048.3	< 1	1,454.0	< 1	93,126.4	< 1
Status 3	0.0	0	449,792.2	4	6,738.0	< 1	150,092.8	1	49.2	< 1	33,501.2	< 1	31,954.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,701.4	< 1	47.0	< 1	0.0	0	1,587.0	< 1
Total	132,312.4	1	489,315.7	4	130,465.7	1	152,794.2	1	50,672.1	< 1	35,756.8	< 1	132,247.2	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,527.6	< 1	11.8	< 1	10,600.7	< 1	232.3	< 1	0.0	0	192,948.8	2
Status 2	712.1	< 1	290.9	< 1	9,299.9	< 1	7,775.5	< 1	0.0	0	323.2	< 1	292,926.0	2
Status 3	16,563.2	< 1	0.0	0	2,212.4	< 1	9,237.8	< 1	3,977.0	< 1	0.0	0	704,118.2	6
Status 4	0.0	0	0.0	0	347.2	< 1	828.6	< 1	1,624.1	< 1	10,690,708.7	90	10,697,844.0	90
Total	17,275.4	< 1	9,818.5	< 1	11,871.3	< 1	28,442.5	< 1	5,833.4	< 1	10,691,031.9	90	11,887,837.0	100

Common Name: MILK SNAKE
Scientific Name: LAMPROPELTIS TRIANGULUM

ITIS TSN: 174187
NS EICode: ARADB19050

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	18,359.3	< 1	61,043.0	2	0.0	0	3,807.5	< 1	0.2	< 1	502.6	< 1
Status 2	1,504.2	< 1	0.0	0	11,380.6	< 1	0.0	0	4,414.1	< 1	81.5	< 1	9,697.0	< 1
Status 3	0.0	0	182,687.9	7	127.4	< 1	55,232.3	2	0.0	0	689.6	< 1	18,047.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	77.5	< 1	5.3	< 1	0.0	0	670.1	< 1
Total	1,505.7	< 1	201,047.1	8	72,551.1	3	55,309.8	2	8,227.0	< 1	771.2	< 1	28,917.5	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9.8	< 1	0.4	< 1	1,969.1	< 1	52.5	< 1	0.0	0	85,745.9	3
Status 2	230.8	< 1	0.0	0	4,974.9	< 1	901.4	< 1	0.0	0	0.8	< 1	33,185.3	1
Status 3	4,022.9	< 1	0.0	0	396.2	< 1	3,434.2	< 1	230.9	< 1	0.0	0	264,869.2	10
Status 4	0.0	0	0.0	0	12.3	< 1	183.3	< 1	352.8	< 1	2,155,406.0	85	2,156,707.4	85
Total	4,253.7	< 1	9.8	< 1	5,383.8	< 1	6,488.1	< 1	636.2	< 1	2,155,406.8	85	2,540,507.7	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COACHWHIP

Scientific Name: MASTICOPHIS FLAGELLUM

ITIS TSN: 174238

NS EICode: ARADB21020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,329.3	< 1	0.0	0	0.0	0	1,255.3	< 1	0.0	0	15.4	< 1
Status 2	2,480.2	< 1	0.0	0	17.6	< 1	0.0	0	3,115.4	< 1	0.0	0	2,275.1	< 1
Status 3	0.0	0	28,835.1	2	31.4	< 1	73,075.8	4	0.5	< 1	10,726.7	< 1	20,019.1	1
Status 4	0.0	0	0.0	0	0.0	0	10.0	< 1	0.0	0	0.0	0	880.4	< 1
Total	2,480.2	< 1	31,164.4	2	49.1	< 1	73,085.8	4	4,371.1	< 1	10,726.7	< 1	23,189.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.6	< 1	0.0	0	860.0	< 1	70.7	< 1	0.0	0	4,531.3	< 1
Status 2	0.0	0	2.5	< 1	194.1	< 1	449.0	< 1	0.0	0	0.0	0	8,534.0	< 1
Status 3	6,894.3	< 1	0.0	0	205.4	< 1	1,149.5	< 1	0.0	0	0.0	0	140,937.6	7
Status 4	0.0	0	0.0	0	47.2	< 1	32.9	< 1	277.4	< 1	1,725,501.8	92	1,726,749.6	92
Total	6,894.3	< 1	3.2	< 1	446.7	< 1	2,491.4	< 1	348.1	< 1	1,725,501.8	92	1,880,752.5	100

Common Name: REDBELLY WATER SNAKE

Scientific Name: NERODIA ERYTHROGASTER

ITIS TSN: 174244

NS EICode: ARADB22020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	51.0	< 1	13,940.5	< 1	0.0	0	0.0	0	13,021.4	< 1	916.6	< 1	6,828.4	< 1
Status 2	131,284.2	2	0.0	0	1,272.7	< 1	0.0	0	11,683.4	< 1	1,256.0	< 1	72,677.7	1
Status 3	0.0	0	59,073.1	1	2,149.7	< 1	92,808.6	2	51.5	< 1	32,605.9	< 1	13,944.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,317.3	< 1	0.4	< 1	0.0	0	998.9	< 1
Total	131,335.2	2	73,013.6	1	3,422.4	< 1	95,126.0	2	24,756.7	< 1	34,778.4	< 1	94,449.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,611.5	< 1	35.0	< 1	8,250.4	< 1	183.1	< 1	0.0	0	51,837.8	< 1
Status 2	0.0	0	106.9	< 1	825.9	< 1	6,135.3	< 1	0.0	0	339.4	< 1	225,581.5	4
Status 3	12,393.0	< 1	0.0	0	1,975.1	< 1	11,096.3	< 1	3,040.3	< 1	0.0	0	229,138.3	4
Status 4	0.0	0	0.0	0	120.9	< 1	137.7	< 1	628.3	< 1	5,250,385.4	91	5,254,588.9	91
Total	12,393.0	< 1	8,718.4	< 1	2,957.0	< 1	25,619.7	< 1	3,851.6	< 1	5,250,724.8	91	5,761,146.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BANDED WATER SNAKE

Scientific Name: *NERODIA FASCIATA*

ITIS TSN: 174248

NS EICode: ARADB22030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,454.7	< 1	1,934.4	< 1	0.0	0	0.0	0	5,134.8	< 1	301.2	< 1	2,681.4	< 1
Status 2	54,434.9	2	0.0	0	3,157.6	< 1	0.0	0	5,315.9	< 1	916.6	< 1	14,046.8	< 1
Status 3	0.0	0	15,624.0	< 1	2,799.0	< 1	48,240.4	2	49.1	< 1	2,381.8	< 1	5,221.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	228.2	< 1	0.4	< 1	0.0	0	943.6	< 1
Total	55,889.6	2	17,558.4	< 1	5,956.6	< 1	48,468.5	2	10,500.1	< 1	3,599.6	< 1	22,892.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,582.7	< 1	35.0	< 1	2,122.7	< 1	60.9	< 1	0.0	0	18,307.7	< 1
Status 2	0.0	0	170.6	< 1	215.1	< 1	2,635.6	< 1	0.0	0	208.0	< 1	81,100.9	3
Status 3	2,624.3	< 1	0.0	0	384.3	< 1	4,136.0	< 1	1,688.3	< 1	0.0	0	83,148.3	3
Status 4	0.0	0	0.0	0	74.3	< 1	16.8	< 1	275.0	< 1	2,949,381.5	94	2,950,919.7	94
Total	2,624.3	< 1	4,753.3	< 1	708.8	< 1	8,911.1	< 1	2,024.2	< 1	2,949,589.5	94	3,133,476.6	100

Common Name: NORTHERN WATER SNAKE

Scientific Name: *NERODIA SIPEDON*

ITIS TSN: 174251

NS EICode: ARADB22060

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,698.7	< 1	15,529.7	< 1	58,304.2	< 1	0.0	0	9,354.9	< 1	302.9	< 1	3,249.2	< 1
Status 2	59,091.3	< 1	0.0	0	11,740.3	< 1	0.0	0	13,713.0	< 1	1,161.2	< 1	33,926.8	< 1
Status 3	0.0	0	236,011.7	4	3,542.1	< 1	37,693.4	< 1	49.1	< 1	1,302.9	< 1	12,146.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,395.7	< 1	37.4	< 1	0.0	0	744.5	< 1
Total	60,790.0	1	251,541.4	4	73,586.6	1	40,089.1	< 1	23,154.4	< 1	2,767.1	< 1	50,067.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	3,949.9	< 1	35.0	< 1	2,599.3	< 1	0.0	0	0.0	0	95,023.7	2
Status 2	395.9	< 1	170.6	< 1	4,860.8	< 1	3,535.1	< 1	0.0	0	211.8	< 1	128,806.7	2
Status 3	2,695.5	< 1	0.0	0	1,948.2	< 1	5,900.9	< 1	2,667.4	< 1	0.0	0	303,957.7	5
Status 4	0.0	0	0.0	0	59.6	< 1	431.0	< 1	813.0	< 1	5,448,832.2	91	5,453,313.4	91
Total	3,091.4	< 1	4,120.5	< 1	6,903.6	< 1	12,466.3	< 1	3,480.4	< 1	5,449,044.0	91	5,981,101.6	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BROWN WATER SNAKE

Scientific Name: *NERODIA TAXISPILOTA*

ITIS TSN: 174255

NS EICode: ARADB22070

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	349.5	< 1	849.8	< 1	0.0	0	0.0	0	2,064.8	< 1	52.7	< 1	776.3	< 1
Status 2	17,355.7	2	0.0	0	1,193.5	< 1	0.0	0	2,162.7	< 1	308.0	< 1	3,093.1	< 1
Status 3	0.0	0	6,405.4	< 1	854.7	< 1	15,163.7	1	21.8	< 1	583.5	< 1	2,119.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	47.1	< 1	0.4	< 1	0.0	0	373.9	< 1
Total	17,705.2	2	7,255.2	< 1	2,048.2	< 1	15,210.8	1	4,249.6	< 1	944.2	< 1	6,362.9	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,444.4	< 1	31.5	< 1	705.0	< 1	27.4	< 1	0.0	0	6,301.4	< 1
Status 2	0.0	0	123.8	< 1	378.8	< 1	741.6	< 1	0.0	0	66.2	< 1	25,423.5	2
Status 3	729.8	< 1	0.0	0	145.7	< 1	1,435.9	< 1	558.5	< 1	0.0	0	28,018.5	3
Status 4	0.0	0	0.0	0	22.8	< 1	44.9	< 1	152.3	< 1	1,044,187.4	95	1,044,828.6	95
Total	729.8	< 1	1,568.3	< 1	578.8	< 1	2,927.3	< 1	738.1	< 1	1,044,253.6	95	1,104,572.0	100

Common Name: ROUGH GREEN SNAKE

Scientific Name: *OPHEODRYS AESTIVUS*

ITIS TSN: 174172

NS EICode: ARADB23010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.8	< 1	14,222.1	< 1	4,631.4	< 1	0.0	0	1,785.0	< 1	212.0	< 1	266.9	< 1
Status 2	55,304.2	2	0.0	0	4,082.4	< 1	0.0	0	2,220.6	< 1	79.3	< 1	38,963.1	2
Status 3	0.0	0	48,870.7	2	1,794.8	< 1	55,707.6	2	16.4	< 1	18,348.7	< 1	5,622.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,193.1	< 1	1.9	< 1	0.0	0	369.8	< 1
Total	55,310.9	2	63,092.8	3	10,508.6	< 1	56,900.7	2	4,023.8	< 1	18,639.9	< 1	45,221.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,560.1	< 1	2.8	< 1	5,740.3	< 1	89.0	< 1	0.0	0	29,516.2	1
Status 2	54.5	< 1	40.7	< 1	527.5	< 1	1,460.2	< 1	0.0	0	40.0	< 1	102,772.3	4
Status 3	6,260.3	< 1	0.0	0	330.6	< 1	1,539.2	< 1	370.5	< 1	0.0	0	138,860.8	6
Status 4	0.0	0	0.0	0	109.3	< 1	72.5	< 1	176.9	< 1	2,168,679.7	89	2,170,603.1	89
Total	6,314.8	< 1	2,600.7	< 1	970.1	< 1	8,812.1	< 1	636.4	< 1	2,168,719.7	89	2,441,752.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: PINE SNAKE

Scientific Name: *PITUOPHIS MELANOLEUCUS*

ITIS TSN: 174263

NS EICode: ARADB26010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	292.7	< 1	1,995.8	< 1	0.0	0	219.9	< 1	0.0	0	0.9	< 1
Status 2	74.4	< 1	0.0	0	0.0	0	0.0	0	233.6	< 1	0.0	0	1,126.4	< 1
Status 3	0.0	0	5,159.3	1	13.8	< 1	47,196.9	13	0.0	0	0.0	0	17,392.3	5
Status 4	0.0	0	0.0	0	0.0	0	2.7	< 1	0.0	0	0.0	0	542.8	< 1
Total	74.4	< 1	5,452.0	2	2,009.5	< 1	47,199.6	13	453.4	< 1	0.0	0	19,062.5	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	314.1	< 1	65.0	< 1	0.0	0	2,888.3	< 1
Status 2	0.0	0	0.0	0	29.0	< 1	36.1	< 1	0.0	0	0.0	0	1,499.5	< 1
Status 3	39.2	< 1	0.0	0	149.7	< 1	409.0	< 1	0.0	0	0.0	0	70,360.1	20
Status 4	0.0	0	0.0	0	6.1	< 1	17.6	< 1	0.0	0	275,561.7	79	276,130.9	79
Total	39.2	< 1	0.0	0	184.8	< 1	776.7	< 1	65.0	< 1	275,561.7	79	350,878.8	100

Common Name: GLOSSY CRAYFISH SNAKE

Scientific Name: *REGINA RIGIDA*

ITIS TSN: 174123

NS EICode: ARADB27030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	420.8	< 1	0.0	0	0.0	0	241.6	< 1	8.2	< 1	265.3	< 1
Status 2	10,543.3	6	0.0	0	8.9	< 1	0.0	0	796.8	< 1	49.9	< 1	1,334.3	< 1
Status 3	0.0	0	3,014.3	2	106.1	< 1	9,034.7	5	0.0	0	307.0	< 1	448.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Total	10,543.3	6	3,435.0	2	115.0	< 1	9,034.7	5	1,038.3	< 1	365.0	< 1	2,048.6	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	657.2	< 1	0.0	0	200.7	< 1	26.2	< 1	0.0	0	1,819.9	< 1
Status 2	0.0	0	0.0	0	9.5	< 1	380.7	< 1	0.0	0	40.7	< 1	13,164.0	7
Status 3	439.2	< 1	0.0	0	56.2	< 1	237.8	< 1	0.0	0	0.0	0	13,644.2	7
Status 4	0.0	0	0.0	0	6.2	< 1	0.0	0	5.8	< 1	157,876.9	85	157,888.9	85
Total	439.2	< 1	657.2	< 1	71.8	< 1	819.2	< 1	32.0	< 1	157,917.6	85	186,517.0	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: QUEEN SNAKE

ITIS TSN: 174125

Scientific Name: REGINA SEPTENVITTATA

NS EICode: ARADB27040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,909.0	< 1	7,511.2	3	0.0	0	378.1	< 1	0.0	0	189.5	< 1
Status 2	409.3	< 1	0.0	0	851.9	< 1	0.0	0	653.6	< 1	8.6	< 1	2,740.9	1
Status 3	0.0	0	23,866.3	9	11.7	< 1	2,131.6	< 1	0.0	0	64.4	< 1	1,185.0	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,490.1	< 1	5.2	< 1	0.0	0	36.4	< 1
Total	409.3	< 1	25,775.3	10	8,374.8	3	3,621.7	1	1,036.9	< 1	73.0	< 1	4,151.7	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	14.4	< 1	167.8	< 1	0.0	0	0.0	0	10,169.9	4
Status 2	36.0	< 1	0.0	0	614.6	< 1	181.5	< 1	0.0	0	0.0	0	5,496.3	2
Status 3	170.9	< 1	0.0	0	395.7	< 1	276.9	< 1	53.7	< 1	0.0	0	28,156.3	11
Status 4	0.0	0	0.0	0	0.0	0	37.5	< 1	23.1	< 1	218,306.1	83	219,898.4	83
Total	206.9	< 1	0.0	0	1,024.7	< 1	663.8	< 1	76.9	< 1	218,306.1	83	263,720.9	100

Common Name: PINE WOODS SNAKE

ITIS TSN: 174265

Scientific Name: RHADINAEA FLAVILATA

NS EICode: ARADB28010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	3.2	< 1	154.0	< 1	0.0	0	0.0	0	312.9	< 1	0.0	0	1.6	< 1
Status 2	6,847.7	2	0.0	0	455.9	< 1	0.0	0	500.1	< 1	0.0	0	2,725.1	< 1
Status 3	0.0	0	5,761.5	2	953.7	< 1	34,417.3	11	0.0	0	1,399.0	< 1	9,315.7	3
Status 4	0.0	0	0.0	0	0.0	0	8.2	< 1	0.0	0	0.0	0	126.0	< 1
Total	6,850.9	2	5,915.5	2	1,409.7	< 1	34,425.5	11	813.1	< 1	1,399.0	< 1	12,168.5	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	737.8	< 1	0.0	0	268.0	< 1	65.0	< 1	0.0	0	1,542.5	< 1
Status 2	0.0	0	7.7	< 1	32.2	< 1	235.7	< 1	0.0	0	0.0	0	10,804.6	4
Status 3	2,944.0	< 1	0.0	0	149.7	< 1	489.2	< 1	3.7	< 1	0.0	0	55,433.7	18
Status 4	0.0	0	0.0	0	7.1	< 1	5.2	< 1	0.0	0	235,300.6	78	235,447.1	78
Total	2,944.0	< 1	745.6	< 1	189.0	< 1	998.1	< 1	68.7	< 1	235,300.6	78	303,227.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: BLACK SWAMP SNAKE

Scientific Name: SEMINATRIX PYGAEA

ITIS TSN: 174273

NS EICode: ARADB31010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1.5	< 1	12,003.1	1	0.0	0	0.0	0	1,817.3	< 1	903.1	< 1	2,991.9	< 1
Status 2	85,627.6	9	0.0	0	265.3	< 1	0.0	0	2,990.4	< 1	594.6	< 1	40,593.6	4
Status 3	0.0	0	34,266.3	4	313.2	< 1	43,540.7	4	0.0	0	20,442.5	2	33.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.9	< 1	0.0	0	0.0	0	0.0	0
Total	85,629.2	9	46,269.5	5	578.5	< 1	43,541.6	4	4,807.7	< 1	21,940.2	2	43,619.0	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,211.9	< 1	0.0	0	5,632.4	< 1	58.3	< 1	0.0	0	30,619.4	3
Status 2	0.0	0	16.5	< 1	40.4	< 1	3,915.1	< 1	0.0	0	303.6	< 1	134,347.1	14
Status 3	6,914.1	< 1	0.0	0	0.0	0	1,137.2	< 1	23.4	< 1	0.0	0	106,671.0	11
Status 4	0.0	0	0.0	0	37.1	< 1	0.0	0	314.2	< 1	698,185.5	72	698,537.7	72
Total	6,914.1	< 1	7,228.4	< 1	77.5	< 1	10,684.6	1	395.9	< 1	698,489.1	72	970,175.3	100

Common Name: BROWN SNAKE

Scientific Name: STORERIA DEKAYI

ITIS TSN: 174129

NS EICode: ARADB34010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,841.9	< 1	37,393.9	< 1	98,213.1	< 1	0.0	0	23,188.1	< 1	913.1	< 1	8,982.0	< 1
Status 2	138,316.2	1	0.0	0	22,441.0	< 1	0.0	0	24,649.3	< 1	1,521.7	< 1	92,037.9	< 1
Status 3	0.0	0	420,117.6	4	6,729.9	< 1	115,387.4	< 1	51.6	< 1	34,798.5	< 1	16,915.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,678.1	< 1	41.9	< 1	0.0	0	1,264.1	< 1
Total	140,158.2	1	457,511.5	4	127,384.0	1	118,065.5	1	47,930.9	< 1	37,233.4	< 1	119,199.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,012.8	< 1	11.4	< 1	11,025.4	< 1	244.4	< 1	0.0	0	191,826.2	2
Status 2	680.0	< 1	173.7	< 1	8,929.5	< 1	7,929.9	< 1	0.0	0	338.4	< 1	297,017.6	3
Status 3	15,808.8	< 1	0.0	0	1,889.3	< 1	15,396.8	< 1	4,217.7	< 1	0.0	0	631,312.6	5
Status 4	0.0	0	0.0	0	121.1	< 1	785.6	< 1	1,537.1	< 1	10,479,523.2	90	10,485,951.2	90
Total	16,488.7	< 1	10,186.5	< 1	10,951.4	< 1	35,137.6	< 1	5,999.2	< 1	10,479,861.6	90	11,606,107.5	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: REDBELLY SNAKE

ITIS TSN: 174131

Scientific Name: STORERIA OCCIPITOMACULATA

NS EICode: ARADB34030

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	36,562.7	< 1	96,780.7	1	0.0	0	20,705.1	< 1	908.3	< 1	8,388.9	< 1
Status 2	113,550.1	2	0.0	0	15,406.6	< 1	0.0	0	20,111.1	< 1	1,347.5	< 1	80,356.0	1
Status 3	0.0	0	396,906.0	6	1,572.1	< 1	80,994.5	1	33.3	< 1	23,297.7	< 1	11,852.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,985.2	< 1	38.7	< 1	0.0	0	485.0	< 1
Total	113,554.9	2	433,468.7	7	113,759.4	2	82,979.7	1	40,888.3	< 1	25,553.4	< 1	101,082.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,330.6	< 1	10.3	< 1	9,405.5	< 1	202.8	< 1	0.0	0	181,299.6	3
Status 2	624.0	< 1	21.7	< 1	8,547.2	< 1	5,744.3	< 1	0.0	0	307.9	< 1	246,016.4	4
Status 3	11,415.9	< 1	0.0	0	1,351.0	< 1	13,724.9	< 1	1,643.1	< 1	0.0	0	542,791.3	8
Status 4	0.0	0	0.0	0	51.4	< 1	669.2	< 1	886.0	< 1	5,691,425.9	85	5,695,541.5	85
Total	12,039.9	< 1	8,352.3	< 1	9,959.9	< 1	29,544.0	< 1	2,731.9	< 1	5,691,733.8	85	6,665,648.7	100

Common Name: SOUTHEASTERN CROWNED SNAKE

ITIS TSN: 174280

Scientific Name: TANTILLA CORONATA

NS EICode: ARADB35020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	14,288.9	< 1	0.0	0	0.0	0	2,831.0	< 1	0.0	0	303.2	< 1
Status 2	10,461.2	< 1	0.0	0	3,694.5	< 1	0.0	0	3,808.4	< 1	212.8	< 1	35,172.7	< 1
Status 3	0.0	0	48,492.1	1	99.1	< 1	100,780.3	3	22.1	< 1	22,432.4	< 1	23,086.6	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,562.0	< 1	5.5	< 1	0.0	0	973.1	< 1
Total	10,461.2	< 1	62,781.0	2	3,793.6	< 1	102,342.2	3	6,667.0	< 1	22,645.2	< 1	59,535.6	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	160.3	< 1	17.2	< 1	5,953.3	< 1	178.9	< 1	0.0	0	23,732.9	< 1
Status 2	80.4	< 1	60.2	< 1	993.4	< 1	905.7	< 1	0.0	0	0.0	0	55,389.3	1
Status 3	9,991.8	< 1	0.0	0	981.5	< 1	2,326.5	< 1	1,111.9	< 1	0.0	0	209,324.3	5
Status 4	0.0	0	0.0	0	150.6	< 1	129.2	< 1	211.2	< 1	3,533,278.2	92	3,536,309.7	92
Total	10,072.2	< 1	220.5	< 1	2,142.7	< 1	9,314.6	< 1	1,502.0	< 1	3,533,278.2	92	3,824,756.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN RIBBON SNAKE
Scientific Name: THAMNOPHIS SAURITUS

ITIS TSN: 174134
NS EICode: ARADB36120

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	49.1	< 1	16,335.9	< 1	1,890.5	< 1	0.0	0	16,743.7	< 1	916.6	< 1	7,378.2	< 1
Status 2	126,048.4	2	0.0	0	6,333.8	< 1	0.0	0	16,234.4	< 1	1,199.3	< 1	77,963.3	1
Status 3	0.0	0	129,602.7	2	2,079.9	< 1	92,782.2	1	26.2	< 1	31,753.7	< 1	12,195.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,234.6	< 1	35.4	< 1	0.0	0	678.5	< 1
Total	126,097.6	2	145,938.6	2	10,304.3	< 1	95,016.8	2	33,039.6	< 1	33,869.5	< 1	98,215.9	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,573.8	< 1	21.2	< 1	8,414.6	< 1	170.5	< 1	0.0	0	60,494.0	< 1
Status 2	442.0	< 1	102.6	< 1	2,811.7	< 1	6,314.9	< 1	0.0	0	322.3	< 1	237,772.7	4
Status 3	13,575.9	< 1	0.0	0	1,580.0	< 1	11,354.0	< 1	1,811.0	< 1	0.0	0	296,761.5	5
Status 4	0.0	0	0.0	0	87.4	< 1	462.9	< 1	1,003.9	< 1	5,685,197.2	90	5,689,699.8	91
Total	14,017.9	< 1	8,676.4	< 1	4,500.4	< 1	26,546.4	< 1	2,985.3	< 1	5,685,519.5	90	6,284,728.1	100

Common Name: COMMON GARTER SNAKE
Scientific Name: THAMNOPHIS SIRTALIS

ITIS TSN: 174136
NS EICode: ARADB36130

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,823.0	< 1	38,770.8	< 1	100,665.3	1	0.0	0	22,698.8	< 1	913.1	< 1	8,904.4	< 1
Status 2	132,406.6	1	0.0	0	21,618.3	< 1	0.0	0	23,885.4	< 1	1,392.7	< 1	90,397.5	1
Status 3	0.0	0	422,927.7	5	4,598.7	< 1	105,522.6	1	36.0	< 1	33,863.0	< 1	15,441.9	< 1
Status 4	0.0	0	0.0	0	0.0	0	2,600.7	< 1	38.7	< 1	0.0	0	916.2	< 1
Total	134,229.5	1	461,698.6	5	126,882.3	1	108,123.3	1	46,658.9	< 1	36,168.8	< 1	115,660.1	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	9,721.2	< 1	11.4	< 1	10,950.2	< 1	222.3	< 1	0.0	0	194,680.5	2
Status 2	684.4	< 1	164.6	< 1	8,958.6	< 1	7,369.9	< 1	0.0	0	322.0	< 1	287,199.9	3
Status 3	15,302.0	< 1	0.0	0	1,734.8	< 1	15,321.7	< 1	2,641.4	< 1	0.0	0	617,389.8	7
Status 4	0.0	0	0.0	0	89.8	< 1	727.3	< 1	1,164.6	< 1	7,927,607.2	88	7,933,144.5	88
Total	15,986.3	< 1	9,885.8	< 1	10,794.7	< 1	34,369.1	< 1	4,028.3	< 1	7,927,929.2	88	9,032,414.8	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: ROUGH EARTH SNAKE

Scientific Name: VIRGINIA STRIATULA

ITIS TSN: 174150

NS EICode: ARADB39010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	6.3	< 1	14,254.7	< 1	0.0	0	0.0	0	12,631.6	< 1	701.4	< 1	6,579.6	< 1
Status 2	114,637.8	2	0.0	0	221.4	< 1	0.0	0	14,918.7	< 1	1,145.4	< 1	70,926.0	1
Status 3	0.0	0	63,476.9	< 1	1,655.6	< 1	98,162.1	2	36.0	< 1	33,487.0	< 1	15,281.1	< 1
Status 4	0.0	0	0.0	0	0.0	0	948.2	< 1	38.7	< 1	0.0	0	916.2	< 1
Total	114,644.1	2	77,731.6	1	1,877.0	< 1	99,110.3	2	27,625.0	< 1	35,333.8	< 1	93,703.0	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,146.4	< 1	9.1	< 1	7,934.9	< 1	221.0	< 1	0.0	0	50,485.1	< 1
Status 2	0.0	0	24.2	< 1	1,752.8	< 1	5,421.9	< 1	0.0	0	253.6	< 1	209,301.8	3
Status 3	12,625.2	< 1	0.0	0	1,705.1	< 1	9,840.2	< 1	2,607.0	< 1	0.0	0	238,876.4	4
Status 4	0.0	0	0.0	0	88.9	< 1	150.7	< 1	1,007.6	< 1	5,902,623.0	92	5,905,773.2	92
Total	12,625.2	< 1	8,170.7	< 1	3,556.0	< 1	23,347.7	< 1	3,835.6	< 1	5,902,876.6	92	6,404,436.5	100

Common Name: SMOOTH EARTH SNAKE

Scientific Name: VIRGINIA VALERIAE

ITIS TSN: 174151

NS EICode: ARADB39020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	5.1	< 1	2,847.5	< 1	5,623.7	< 1	0.0	0	1,507.1	< 1	0.9	< 1	260.5	< 1
Status 2	6,366.3	< 1	0.0	0	3,189.2	< 1	0.0	0	2,556.5	< 1	190.7	< 1	6,264.7	< 1
Status 3	0.0	0	31,093.1	< 1	608.2	< 1	70,689.2	2	18.2	< 1	4,887.5	< 1	20,304.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	487.6	< 1	5.2	< 1	0.0	0	837.5	< 1
Total	6,371.5	< 1	33,940.6	< 1	9,421.0	< 1	71,176.9	2	4,086.9	< 1	5,079.1	< 1	27,667.0	< 1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	335.0	< 1	4.3	< 1	784.5	< 1	143.8	< 1	0.0	0	11,512.4	< 1
Status 2	78.8	< 1	23.2	< 1	880.4	< 1	677.2	< 1	0.0	0	20.1	< 1	20,247.0	< 1
Status 3	5,216.7	< 1	0.0	0	702.2	< 1	1,734.8	< 1	1,080.5	< 1	0.0	0	136,334.8	4
Status 4	0.0	0	0.0	0	120.4	< 1	85.6	< 1	240.8	< 1	3,357,925.6	95	3,359,702.7	95
Total	5,295.5	< 1	358.2	< 1	1,707.3	< 1	3,282.1	< 1	1,465.2	< 1	3,357,945.6	95	3,527,796.9	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: EASTERN CORAL SNAKE

Scientific Name: *MICRURUS FULVIUS*

ITIS TSN: 174354

NS EICode: ARADC02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	50.7	< 1	0.0	0	0.0	0	681.7	< 1	0.0	0	0.5	< 1
Status 2	161.2	< 1	0.0	0	0.0	0	0.0	0	690.5	< 1	0.0	0	1,179.9	< 1
Status 3	0.0	0	1,208.0	< 1	16.7	< 1	54,639.5	14	0.0	0	0.0	0	17,183.9	4
Status 4	0.0	0	0.0	0	0.0	0	8.2	< 1	0.0	0	0.0	0	563.7	< 1
Total	161.2	< 1	1,258.7	< 1	16.7	< 1	54,647.7	14	1,372.1	< 1	0.0	0	18,927.9	5
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	124.1	< 1	2.9	< 1	300.8	< 1	51.3	< 1	0.0	0	1,211.9	< 1
Status 2	0.0	0	0.0	0	23.9	< 1	112.3	< 1	0.0	0	0.0	0	2,167.7	< 1
Status 3	3,060.4	< 1	0.0	0	190.1	< 1	491.3	< 1	0.0	0	0.0	0	76,789.8	19
Status 4	0.0	0	0.0	0	8.4	< 1	5.0	< 1	0.0	0	314,160.9	80	314,746.2	80
Total	3,060.4	< 1	124.1	< 1	225.2	< 1	909.5	< 1	51.3	< 1	314,160.9	80	394,915.6	100

Common Name: COPPERHEAD

Scientific Name: *AGKISTRODON CONTORTRIX*

ITIS TSN: 174296

NS EICode: ARADE01010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	25.4	< 1	41,730.6	< 1	111,191.1	< 1	0.0	0	23,950.9	< 1	701.4	< 1	8,539.2	< 1
Status 2	120,586.9	< 1	0.0	0	20,047.3	< 1	0.0	0	27,122.5	< 1	1,589.6	< 1	92,067.7	< 1
Status 3	0.0	0	457,681.4	4	1,799.1	< 1	146,288.6	1	51.3	< 1	34,633.4	< 1	32,271.8	< 1
Status 4	0.0	0	0.0	0	0.0	0	1,143.8	< 1	47.1	< 1	0.0	0	1,626.2	< 1
Total	120,612.2	< 1	499,412.0	4	133,037.6	1	147,432.4	1	51,171.8	< 1	36,924.4	< 1	134,504.9	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,156.1	< 1	9.5	< 1	10,775.4	< 1	244.4	< 1	0.0	0	205,323.9	2
Status 2	719.1	< 1	147.5	< 1	9,762.9	< 1	7,210.0	< 1	0.0	0	270.0	< 1	279,523.4	2
Status 3	17,814.7	< 1	0.0	0	2,189.7	< 1	14,425.5	< 1	4,382.9	< 1	0.0	0	711,538.5	6
Status 4	0.0	0	0.0	0	351.9	< 1	840.2	< 1	1,635.1	< 1	11,019,241.9	90	11,024,886.2	90
Total	18,533.8	< 1	8,303.6	< 1	12,314.0	< 1	33,251.1	< 1	6,262.5	< 1	11,019,511.9	90	12,221,272.1	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: COTTONMOUTH

Scientific Name: *AGKISTRODON PISCIVORUS*

ITIS TSN: 174299

NS EICode: ARADE01020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	1,853.9	< 1	12,081.7	< 1	0.0	0	0.0	0	11,576.2	< 1	910.3	< 1	6,778.9	< 1
Status 2	123,731.6	7	0.0	0	3,740.8	< 1	0.0	0	4,866.3	< 1	875.5	< 1	57,770.9	3
Status 3	0.0	0	36,477.8	2	3,214.1	< 1	63,300.8	4	25.9	< 1	20,694.0	1	3,494.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	652.2	< 1	0.2	< 1	0.0	0	270.8	< 1
Total	125,585.5	7	48,559.5	3	6,954.8	< 1	63,953.0	4	16,468.6	< 1	22,479.8	1	68,315.1	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	8,887.8	< 1	15.7	< 1	7,632.0	< 1	63.4	< 1	0.0	0	49,799.7	3
Status 2	0.0	0	166.1	< 1	124.5	< 1	4,664.6	< 1	0.0	0	306.8	< 1	196,247.1	11
Status 3	7,214.9	< 1	0.0	0	361.1	< 1	10,229.0	< 1	141.9	< 1	0.0	0	145,154.1	8
Status 4	0.0	0	0.0	0	43.8	< 1	45.9	< 1	355.5	< 1	1,349,133.6	77	1,350,502.0	78
Total	7,214.9	< 1	9,053.9	< 1	545.0	< 1	22,571.6	1	560.8	< 1	1,349,440.4	77	1,741,702.9	100

Common Name: EASTERN DIAMONDBACK RATTLESNAKE

Scientific Name: *CROTALUS ADAMANTEUS*

ITIS TSN: 174309

NS EICode: ARADE02010

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	147.3	< 1	0.0	0	0.0	0	614.4	< 1	0.0	0	782.9	< 1
Status 2	317.2	< 1	0.0	0	191.5	< 1	0.0	0	957.1	< 1	28.9	< 1	2,024.6	< 1
Status 3	0.0	0	3,664.9	1	13.8	< 1	53,318.8	16	0.0	0	441.8	< 1	3,481.7	1
Status 4	0.0	0	0.0	0	0.0	0	9.1	< 1	0.0	0	0.0	0	95.0	< 1
Total	317.2	< 1	3,812.2	1	205.3	< 1	53,327.9	16	1,571.5	< 1	470.7	< 1	6,384.2	2
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	124.1	< 1	0.0	0	472.6	< 1	61.2	< 1	0.0	0	2,202.6	< 1
Status 2	0.0	0	3.6	< 1	24.9	< 1	154.5	< 1	0.0	0	0.0	0	3,702.2	1
Status 3	3,408.6	1	0.0	0	153.1	< 1	779.7	< 1	0.0	0	0.0	0	65,262.2	20
Status 4	0.0	0	0.0	0	8.0	< 1	13.9	< 1	0.0	0	252,675.4	78	252,801.4	78
Total	3,408.6	1	127.7	< 1	186.0	< 1	1,420.7	< 1	61.2	< 1	252,675.4	78	323,968.4	100

Vertebrate Species Predicted Distribution Summary by Management Category.

Common Name: TIMBER RATTLESNAKE

Scientific Name: CROTALUS HORRIDUS

ITIS TSN: 174306

NS EICode: ARADE02040

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.5	< 1	27,157.5	< 1	97,959.2	1	0.0	0	20,764.4	< 1	703.8	< 1	8,263.4	< 1
Status 2	63,331.7	< 1	0.0	0	15,754.8	< 1	0.0	0	19,731.5	< 1	1,022.0	< 1	40,729.8	< 1
Status 3	0.0	0	405,308.6	6	1,219.5	< 1	109,501.3	2	30.7	< 1	18,069.8	< 1	24,541.5	< 1
Status 4	0.0	0	0.0	0	0.0	0	429.1	< 1	38.4	< 1	0.0	0	1,038.0	< 1
Total	63,336.2	< 1	432,466.1	6	114,933.5	2	109,930.4	2	40,565.1	< 1	19,795.5	< 1	74,572.7	1
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	6,013.2	< 1	0.0	0	4,682.3	< 1	201.2	< 1	0.0	0	165,749.5	2
Status 2	588.9	< 1	16.7	< 1	8,411.4	< 1	5,784.6	< 1	0.0	0	297.7	< 1	155,669.0	2
Status 3	12,055.6	< 1	0.0	0	416.5	< 1	13,947.8	< 1	2,646.0	< 1	0.0	0	587,737.2	9
Status 4	0.0	0	0.0	0	76.8	< 1	700.0	< 1	892.9	< 1	5,757,489.2	86	5,760,664.4	86
Total	12,644.5	< 1	6,029.9	< 1	8,904.7	< 1	25,114.6	< 1	3,740.0	< 1	5,757,786.9	86	6,669,820.1	100

Common Name: PIGMY RATTLESNAKE

Scientific Name: SISTRURUS MILIARIUS

ITIS TSN: 174302

NS EICode: ARADE03020

	US FWS		US Forest Service		US Nat. Park Service		US Dept. of Defense		NC State Parks		NC University		NC WRC	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	4.8	< 1	14,163.8	< 1	0.0	0	0.0	0	3,477.1	< 1	908.2	< 1	2,959.8	< 1
Status 2	87,246.5	4	0.0	0	954.5	< 1	0.0	0	7,970.4	< 1	662.6	< 1	46,542.6	2
Status 3	0.0	0	54,913.5	3	22.0	< 1	105,167.2	5	0.0	0	20,863.8	1	20,221.2	1
Status 4	0.0	0	0.0	0	0.0	0	9.5	< 1	0.0	0	0.0	0	686.6	< 1
Total	87,251.3	4	69,077.3	3	976.5	< 1	105,176.6	5	11,447.5	< 1	22,434.6	1	70,410.2	4
	NC Forest Service		NC DCM		Local Governments		Non Gov. Orgs.		Misc. Public		Private		Total	
	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	7,681.9	< 1	8.3	< 1	6,401.5	< 1	121.3	< 1	0.0	0	35,726.7	2
Status 2	0.0	0	21.7	< 1	206.2	< 1	4,193.6	< 1	0.0	0	305.9	< 1	148,104.0	7
Status 3	10,496.3	< 1	0.0	0	305.8	< 1	1,955.9	< 1	44.9	< 1	0.0	0	213,990.6	11
Status 4	0.0	0	0.0	0	42.0	< 1	52.7	< 1	334.4	< 1	1,595,033.6	80	1,596,158.7	80
Total	10,496.3	< 1	7,703.6	< 1	562.3	< 1	12,603.6	< 1	500.6	< 1	1,595,339.6	80	1,993,980.0	100

Appendix CC. Vertebrate Species with < 1 Percent of Predicted Distribution on GAP Status Lands 1 and 2.

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
554268 ABNKC09010	MISSISSIPPI KITE <i>ICTINIA MISSISSIPPIENSIS</i>	-- SR	G5 S1B	< 1 29,186.9
175622 ABNKD06020	AMERICAN KESTREL <i>FALCO SPARVERIUS</i>	-- W1,W5	G5 S3B,S5N	< 1 51,916.5
175863 ABNLC21020	NORTHERN BOBWHITE <i>COLINUS VIRGINIANUS</i>	-- --	G5 S5	< 1 27,766.2
176520 ABNNB03090	KILLDEER <i>CHARADRIUS VOCIFERUS</i>	-- --	G5 S5B,S5N	< 1 10,419.4
177071 ABNPB01010	ROCK DOVE <i>COLUMBA LIVIA</i>	-- --	G5 SE	< 1 18,438.4
177856 ABNSB01030	EASTERN SCREECH-OWL <i>OTUS ASIO</i>	-- --	G5 S5	< 1 28,843.1
177884 ABNSB05010	GREAT HORNED OWL <i>BUBO VIRGINIANUS</i>	-- --	G5 S5	< 1 23,394.5
178001 ABNUA03010	CHIMNEY SWIFT <i>CHAETURA PELAGICA</i>	-- --	G5 S5B,SZN	< 1 20,777.2
178341 ABPAE33040	WILLOW FLYCATCHER <i>EMPIDONAX TRAILLII</i>	-- W2	G5 S3B,SZN	< 1 702.9
178329 ABPAE35020	EASTERN PHOEBE <i>SAYORNIS PHOEBE</i>	-- --	G5 S5B,S5N	< 1 18,541.9
178309 ABPAE43070	GREAT CRESTED FLYCATCHER <i>MYIARCHUS CRINITUS</i>	-- --	G5 S5B,SZN	< 1 34,455.3
554256 ABPAT02010	HORNED LARK <i>EREMOPHILA ALPESTRIS</i>	-- --	G5 S4B,S4N	< 1 12,526.0
178464 ABPAU01010	PURPLE MARTIN <i>PROGNE SUBIS</i>	-- --	G5 S5B,SZN	< 1 30,895.9
178443 ABPAU07010	NORTHERN ROUGH-WINGED SWALLOW <i>STELGIDOPTERYX SERRIPENNIS</i>	-- --	G5 S4B,SZN	< 1 26,189.1
178455 ABPAU09010	CLIFF SWALLOW <i>PETROCHELIDON PYRRHONOTA</i>	-- --	G5 S3B,SZN	< 1 21,278.0
179801 ABPBJ15010	EASTERN BLUEBIRD <i>SIALIA SIALIS</i>	-- --	G5 S5B,S5N	< 1 29,129.9
178620 ABPBK03010	NORTHERN MOCKINGBIRD <i>MIMUS POLYGLOTTOS</i>	-- --	G5 S5	< 1 30,302.6
178515 ABPBR01030	LOGGERHEAD SHRIKE <i>LANIUS LUDOVICIANUS</i>	-- SC	G5 S3B,S3N	< 1 12,642.9
178918 ABPBX03190	PRAIRIE WARBLER <i>DENDROICA DISCOLOR</i>	-- --	G5 S5B,S1N	< 1 27,196.0
179165 ABPBX65010	DICKCISSEL <i>SPIZA AMERICANA</i>	-- --	G5 SZB,SZN	< 1 11,381.0
179386 ABPBX91050	BACHMAN'S SPARROW <i>AIMOPHILA AESTIVALIS</i>	FSC SC	G3 S3B,S2N	< 1 1,482.5

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
179435 ABPBX94020	CHIPPING SPARROW <i>SPIZELLA PASSERINA</i>	-- --	G5 S5B,S5N	< 1 20,081.1
179443 ABPBX94050	FIELD SPARROW <i>SPIZELLA PUSILLA</i>	-- --	G5 S5B,S5N	< 1 33,277.0
179371 ABPBX96010	LARK SPARROW <i>CHONDESTES GRAMMACUS</i>	-- SR	G5 S1B,SZN	< 1 1,686.6
179333 ABPBXA0020	GRASSHOPPER SPARROW <i>AMMODRAMUS SAVANNARUM</i>	-- --	G5 S4B,S1N	< 1 14,987.3
179340 ABPBXA0030	HENSLOW'S SPARROW <i>AMMODRAMUS HENSLOWII</i>	FSC SR	G4 S2B,S1N	< 1 7,738.7
179034 ABPBXB2020	EASTERN MEADOWLARK <i>STURNELLA MAGNA</i>	-- --	G5 S5B,S5N	< 1 18,883.4
179064 ABPBXB9070	ORCHARD ORIOLE <i>ICTERUS SPURIUS</i>	-- --	G5 S5B,SZN	< 1 30,950.3
179191 ABPBY04040	HOUSE FINCH <i>CARPODACUS MEXICANUS</i>	-- --	G5 SE	< 1 23,074.4
179628 ABPBZ01010	HOUSE SPARROW <i>PASSER DOMESTICUS</i>	-- --	G5 SE	< 1 15,432.4
180137 AMAFB03010	WOODCHUCK <i>MARMOTA MONAX</i>	-- --	G5 S5	< 1 11,420.7
180290 AMAFF03060	OLDFIELD MOUSE <i>PEROMYSCUS POLIONOTUS</i>	-- SR	G5 S1	< 1 54.5
180362 AMAFF21010	BLACK RAT <i>RATTUS RATTUS</i>	-- --	G5 SE	< 1 11,183.5
180363 AMAFF21020	NORWAY RAT <i>RATTUS NORVEGICUS</i>	-- --	G5 SE	< 1 16,486.6
180366 AMAFF22010	HOUSE MOUSE <i>MUS MUSCULUS</i>	-- --	G5 SE	< 1 19,141.8
180604 AMAJA03010	RED FOX <i>VULPES VULPES</i>	-- --	G5 S5	< 1 34,766.4
173773 ARAAD02040	BOG TURTLE <i>CLEMMYS MUHLENBERGII</i>	T(S/A) T	G3 S2	< 1 2,713.6
173761 ARAAE02030	LOGGERHEAD MUSK TURTLE <i>STERNOTHERUS MINOR</i>	-- SC	G5 S1	< 1 30.1
174106 ARACB02010	SLENDER GLASS LIZARD <i>OPHISAURUS ATTENUATUS</i>	-- W1	G5 S3S4	< 1 16,088.1
173938 ARACF12010	TEXAS HORNED LIZARD <i>PHRYNOSOMA CORNUTUM</i>	-- --	G4G5 SE	< 1 15.9
174014 ARACJ02110	SIX-LINED RACERUNNER <i>CNEMIDOPHORUS SEXLINEATUS</i>	-- --	G5 S5	< 1 33,281.4
174156 ARADB17030	SOUTHERN HOGNOSE SNAKE <i>HETERODON SIMUS</i>	FSC SR	G4 S3	< 1 4,311.6

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
174238 ARADB21020	COACHWHIP <i>MASTICOPHIS FLAGELLUM</i>	-- SR	G5 S3	< 1 13,065.3
174151 ARADB39020	SMOOTH EARTH SNAKE <i>VIRGINIA VALERIAE</i>	-- --	G5 S4	< 1 31,759.4
174354 ARADC02010	EASTERN CORAL SNAKE <i>MICRURUS FULVIUS</i>	-- SR	G5 S1	< 1 3,379.6

Appendix DD. Vertebrate Species with 1 - 10 Percent of Predicted Distribution on GAP Status Lands 1 and 2.

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
173590 AAAAA01090	SPOTTED SALAMANDER <i>AMBYSTOMA MACULATUM</i>	-- --	G5 S5	3 32,697.9
173591 AAAAA01100	MARBLED SALAMANDER <i>AMBYSTOMA OPACUM</i>	-- --	G5 S5	6 290,749.2
173604 AAAAA01120	MOLE SALAMANDER <i>AMBYSTOMA TALPOIDEUM</i>	-- SC	G5 S2	3 63,503.6
173592 AAAAA01140	TIGER SALAMANDER <i>AMBYSTOMA TIGRINUM</i>	-- T	G5 S2	3 3,230.0
173699 AAAAD01010	GREEN SALAMANDER <i>ANEIDES AENEUS</i>	FSC E	G3G4 S2	8 44,521.7
173636 AAAAD03010	SEEPAGE SALAMANDER <i>DESMOGNATHUS AENEUS</i>	FSC SR	G3G4 S3	5 2,724.4
173637 AAAAD03020	SOUTHERN DUSKY SALAMANDER <i>DESMOGNATHUS AURICULATUS</i>	-- --	G5 S5	6 13,272.6
173633 AAAAD03040	DUSKY SALAMANDER <i>DESMOGNATHUS FUSCUS</i>	-- --	G5 S5	4 26,013.5
173640 AAAAD03060	SEAL SALAMANDER <i>DESMOGNATHUS MONTICOLA</i>	-- --	G5 S5	9 4,535.3
550245 AAAAD03150	BLUE RIDGE DUSKY SALAMANDER <i>DESMOGNATHUS ORESTES</i>	-- --	G2 S?	8 2,364.4
173687 AAAAD05040	LONGTAIL SALAMANDER <i>EURYCEA LONGICAUDA</i>	-- --	G5 S5	9 6,362.1
173695 AAAAD05090	DWARF SALAMANDER <i>EURYCEA QUADRIDIGITATA</i>	-- --	G5 S5	7 70,724.5
550246 AAAAD05140	SOUTHERN TWO-LINED SALAMANDER <i>EURYCEA CIRRIGERA</i>	-- --	G5 S5	2 8,394.6
586362 AAAAD05290	THREE-LINED SALAMANDER <i>EURYCEA GUTTOLINEATA</i>	-- --	G5 S5	5 39,576.5
173715 AAAAD06020	SPRING SALAMANDER <i>GYRINOPHILUS PORPHYRITICUS</i>	-- --	G5 S5	9 45,421.2
173678 AAAAD08010	FOUR-TOED SALAMANDER <i>HEMIDACTYLIUM SCUTATUM</i>	-- SC	G5 S3	4 47,504.1
173649 AAAAD12020	REDBACK SALAMANDER <i>PLETHODON CINEREUS</i>	-- --	G5 S5	2 41,113.1
173650 AAAAD12070	SLIMY SALAMANDER <i>PLETHODON GLUTINOSUS</i>	-- --	G5 S5	8 243,469.0
173667 AAAAD12150	RAVINE SALAMANDER <i>PLETHODON RICHMONDI</i>	-- W2	G5 S3	5 31,894.7
173674 AAAAD12220	WEHRLE'S SALAMANDER <i>PLETHODON WEHRLEI</i>	-- T	G5 S1	8 3,366.5
173675 AAAAD12230	WELLER'S SALAMANDER <i>PLETHODON WELLERI</i>	-- SC	G3 S2	6 3,554.9

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173676 AAAAD12240	YONAHLOSSEE SALAMANDER <i>PLETHODON YONAHLOSSEE</i>	-- --	G4 S4	7 2,229.3
208280 AAAAD12250	TELLICO SALAMANDER <i>PLETHODON AUREOLUS</i>	-- SR	G2G3Q S2	4 926.2
173653 AAAAD12370	SOUTHERN ZIGZAG SALAMANDER <i>PLETHODON VENTRALIS</i>	-- SC	G4 S1	9 51,455.0
173682 AAAAD13010	MUD SALAMANDER <i>PSEUDOTRITON MONTANUS</i>	-- --	G5 S5	4 23,149.7
173680 AAAAD13020	RED SALAMANDER <i>PSEUDOTRITON RUBER</i>	-- --	G5 S5	2 53,600.0
173627 AAAAE01030	NEUSE RIVER WATERDOG <i>NECTURUS LEWISI</i>	-- SC	G3 S3	1 2,165.5
173630 AAAAE01040	MUDPUPPY <i>NECTURUS MACULOSUS</i>	-- SC	G5 S1	4 37.6
173625 AAAAE01050	DWARF WATERDOG <i>NECTURUS PUNCTATUS</i>	-- --	G4 S4	6 40,198.7
173615 AAAAF01030	EASTERN NEWT <i>NOTOPHTHALMUS VIRIDESCENS</i>	-- --	G5 S5	7 411,741.4
173473 AAABB01020	AMERICAN TOAD <i>BUFO AMERICANUS</i>	-- --	G5 S5	3 293,422.2
173479 AAABB01130	OAK TOAD <i>BUFO QUERCICUS</i>	-- W1,W5	G5 S3S4	3 12,672.2
173475 AAABB01160	SOUTHERN TOAD <i>BUFO TERRESTRIS</i>	-- --	G5 S5	4 237,871.8
173478 AAABB01210	FOWLER'S TOAD <i>BUFO FOWLERI</i>	-- --	G5 S5	4 422,902.2
173520 AAABC01010	NORTHERN CRICKET FROG <i>ACRIS CREPITANS</i>	-- --	G5 S5	3 36,348.0
173518 AAABC01020	SOUTHERN CRICKET FROG <i>ACRIS GRYPHUS</i>	-- --	G5 S5	9 150,459.0
173509 AAABC02010	PINE BARRENS TREEFROG <i>HYLA ANDERSONII</i>	-- SR	G4 S3	7 39,869.2
173502 AAABC02050	COPE'S GRAY TREEFROG <i>HYLA CHRYSOSCELIS</i>	-- --	G5 S5	4 164,422.6
173503 AAABC02130	GRAY TREEFROG <i>HYLA VERSICOLOR</i>	-- W3,W4	G5 SU	6 29,576.5
173524 AAABC05020	BRIMLEY'S CHORUS FROG <i>PSEUDACRIS BRIMLEYI</i>	-- --	G5 S5	6 37,700.6
173530 AAABC05040	SOUTHERN CHORUS FROG <i>PSEUDACRIS NIGRITA</i>	-- --	G5 S5	2 5,523.6
173531 AAABC05050	ORNATE CHORUS FROG <i>PSEUDACRIS ORNATA</i>	-- SR	G5 S3	7 76,182.9

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173525 AAABC05070	UPLAND CHORUS FROG <i>PSEUDACRIS TRISERIATA</i>	-- --	G5 S5	6 79,153.6
207303 AAABC05090	SPRING PEEPER <i>PSEUDACRIS CRUCIFER</i>	-- --	G5 S5	6 302,553.8
173467 AAABE01010	EASTERN NARROWMOUTH TOAD <i>GASTROPHRYNE CAROLINENSIS</i>	-- --	G5 S5	7 244,273.2
173426 AAABF01040	EASTERN SPADEFOOT <i>SCAPHIOPUS HOLBROOKII</i>	-- --	G5 S5	4 250,315.7
173441 AAABH01070	BULLFROG <i>RANA CATESBEIANA</i>	-- --	G5 S5	6 274,865.9
173438 AAABH01090	GREEN FROG <i>RANA CLAMITANS</i>	-- --	G5 S5	6 274,865.9
173436 AAABH01220	SOUTHERN LEOPARD FROG <i>RANA SPHENOCEPHALA</i>	-- --	G5 S5	5 267,044.0
207016 AAABH01270	GOPHER FROG <i>RANA CAPITO</i>	FSC --	G4 S2	1 5,524.3
174505 ABNCA02010	PIED-BILLED GREBE <i>PODILYMBUS PODICEPS</i>	-- --	G5 S3B,S5N	6 14,188.1
174717 ABNFD01020	DOUBLE-CRESTED CORMORANT <i>PHALACROCORAX AURITUS</i>	-- SR	G5 S1B,S5N	9 13,470.8
174755 ABNFE01010	ANHINGA <i>ANHINGA ANHINGA</i>	-- SR	G5 S2B,SZN	8 15,687.5
174773 ABNGA04010	GREAT BLUE HERON <i>ARDEA HERODIAS</i>	-- W2	G5 S3B,S5N	8 81,819.4
174793 ABNGA08010	GREEN HERON <i>BUTORIDES VIRESCENS</i>	-- --	G5 S5B,SZN	7 86,823.3
174842 ABNGA13010	YELLOW-CROWNED NIGHT-HERON <i>NYCTANASSA VIOLACEA</i>	-- W2,W3	G5 S3B,SZN	3 13,196.3
174999 ABNJB05030	CANADA GOOSE <i>BRANTA CANADENSIS</i>	-- --	G5 S3B,S4N	2 126,110.4
175122 ABNJB09010	WOOD DUCK <i>AIX SPONSA</i>	-- --	G5 S5B,S4N	8 107,447.1
175068 ABNJB10040	AMERICAN BLACK DUCK <i>ANAS RUBRIPES</i>	-- W1	G5 S3B,S4N	5 16,529.7
175063 ABNJB10060	MALLARD <i>ANAS PLATYRHYNCHOS</i>	-- --	G5 S3B,S5N	3 26,494.0
175183 ABNJB20010	HOODED MERGANSER <i>LOPHODYTES CUCULLATUS</i>	-- --	G5 S1B,S4N	10 103,819.0
175272 ABNKA01010	BLACK VULTURE <i>CORAGYPS ATRATUS</i>	-- SC	G5 S3	1 62,622.5
175265 ABNKA02010	TURKEY VULTURE <i>CATHARTES AURA</i>	-- --	G5 S5B,S5N	4 525,948.4

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175304 ABNKC12020	SHARP-SHINNED HAWK <i>ACCIPITER STRIATUS</i>	-- SR	G5 S3B,S4N	4 254,526.9
175309 ABNKC12040	COOPER'S HAWK <i>ACCIPITER COOPERII</i>	-- SC	G5 S3B,S3N	3 369,374.7
175359 ABNKC19030	RED-SHOULDERED HAWK <i>BUTEO LINEATUS</i>	-- --	G5 S4B,S4N	5 312,200.0
175365 ABNKC19050	BROAD-WINGED HAWK <i>BUTEO PLATYPTERUS</i>	-- --	G5 S4B,SZN	5 201,858.6
175350 ABNKC19110	RED-TAILED HAWK <i>BUTEO JAMAICENSIS</i>	-- --	G5 S5B,S5N	2 265,483.3
175604 ABNKD06070	PEREGRINE FALCON <i>FALCO PEREGRINUS</i>	LE E	G4 S1B,S2N	1 4,910.7
176136 ABNLC14010	WILD TURKEY <i>MELEAGRIS GALLOPAVO</i>	-- --	G5 S4	5 312,899.5
176580 ABNNF19020	AMERICAN WOODCOCK <i>SCOLOPAX MINOR</i>	-- --	G5 S4B,S5N	3 283,526.0
176837 ABNNM03010	LAUGHING GULL <i>LARUS ATRICILLA</i>	-- --	G5 S4B,SZN	7 41,892.1
176824 ABNNM03120	HERRING GULL <i>LARUS ARGENTATUS</i>	-- --	G5 S4B,S5N	10 38,547.7
177125 ABNPB04040	MOURNING DOVE <i>ZENAIIDA MACROURA</i>	-- --	G5 S5B,S5N	3 137,019.9
177834 ABNRB02010	BLACK-BILLED CUCKOO <i>COCCYZUS ERYTHROPTALMUS</i>	-- SR	G5 S2B,SZN	9 49,190.9
177831 ABNRB02020	YELLOW-BILLED CUCKOO <i>COCCYZUS AMERICANUS</i>	-- --	G5 S5B,SZN	4 127,079.0
177851 ABNSA01010	BARN OWL <i>TYTO ALBA</i>	-- W2,W3	G5 S3B,S3N	2 107,851.9
177921 ABNSB12020	BARRED OWL <i>STRIX VARIA</i>	-- --	G5 S4	3 380,515.0
177979 ABNTA02020	COMMON NIGHTHAWK <i>CHORDEILES MINOR</i>	-- --	G5 S4B,SZN	1 51,843.0
177960 ABNTA07010	CHUCK-WILL'S-WIDOW <i>CAPRIMULGUS CAROLINENSIS</i>	-- --	G5 S5B,SZN	4 137,310.1
177961 ABNTA07070	WHIP-POOR-WILL <i>CAPRIMULGUS VOCIFERUS</i>	-- --	G5 S5B,SZN	2 217,424.4
178032 ABNUC45010	RUBY-THROATED HUMMINGBIRD <i>ARCHILOCHUS COLUBRIS</i>	-- --	G5 S5B,SZN	4 135,994.8
178119 ABNXD01020	BELTED KINGFISHER <i>CERYLE ALCYON</i>	-- --	G5 S5B,S5N	3 64,151.9
178186 ABNYF04040	RED-HEADED WOODPECKER <i>MELANERPES ERYTHROCEPHALUS</i>	-- --	G5 S4B,S4N	3 131,892.4

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178195 ABNYF04170	RED-BELLIED WOODPECKER <i>MELANERPES CAROLINUS</i>	-- --	G5 S5	4 351,961.1
178259 ABNYF07030	DOWNY WOODPECKER <i>PICOIDES PUBESCENS</i>	-- --	G5 S5	6 456,395.4
178262 ABNYF07040	HAIRY WOODPECKER <i>PICOIDES VILLOSUS</i>	-- --	G5 S4	6 465,648.1
178154 ABNYF10020	NORTHERN FLICKER <i>COLAPTES AURATUS</i>	-- --	G5 S5B,S5N	3 138,281.9
178166 ABNYF12020	PILEATED WOODPECKER <i>DRYOCOPUS PILEATUS</i>	-- --	G5 S4	6 450,282.2
178359 ABPAE32060	EASTERN WOOD-PEWEE <i>CONTOPUS VIRENS</i>	-- --	G5 S5B,SZN	3 230,498.3
178339 ABPAE33020	ACADIAN FLYCATCHER <i>EMPIDONAX VIRESCENS</i>	-- --	G5 S5B,SZN	5 197,074.4
178344 ABPAE33070	LEAST FLYCATCHER <i>EMPIDONAX MINIMUS</i>	-- W2	G5 S3B,SZN	2 2,440.8
178279 ABPAE52060	EASTERN KINGBIRD <i>TYRANNUS TYRANNUS</i>	-- --	G5 S5B,SZN	3 133,686.9
178431 ABPAU03010	TREE SWALLOW <i>TACHYGINETA BICOLOR</i>	-- W2	G5 S3B,S4N	4 39,930.8
178448 ABPAU09030	BARN SWALLOW <i>HIRUNDO RUSTICA</i>	-- --	G5 S5B,SZN	1 54,335.7
179680 ABPAV02020	BLUE JAY <i>CYANOCITTA CRISTATA</i>	-- --	G5 S5B,S5N	6 397,685.6
179731 ABPAV10010	AMERICAN CROW <i>CORVUS BRACHYRHYNCHOS</i>	-- --	G5 S5B,S5N	4 493,377.5
554383 ABPAW01020	CAROLINA CHICKADEE <i>POECILE CAROLINENSIS</i>	-- --	G5 S5	5 457,564.1
554138 ABPAW01110	TUFTED TITMOUSE <i>BAEOLOPHUS BICOLOR</i>	-- --	G5 S5	5 457,191.2
178775 ABPAZ01020	WHITE-BREASTED NUTHATCH <i>SITTA CAROLINENSIS</i>	-- --	G5 S4B,S5N	5 452,264.6
178785 ABPAZ01040	BROWN-HEADED NUTHATCH <i>SITTA PUSILLA</i>	-- --	G5 S5	5 216,815.3
178581 ABPBG06130	CAROLINA WREN <i>THRYOTHORUS LUDOVICIANUS</i>	-- --	G5 S5	3 134,515.6
178541 ABPBG09010	HOUSE WREN <i>TROGLODYTES AEDON</i>	-- --	G5 S4B,S5N	3 141,977.6
179853 ABPBJ08010	BLUE-GRAY GNATCATCHER <i>POLIOPTILA CAERULEA</i>	-- --	G5 S5B,S2N	6 136,798.0
179777 ABPBJ19010	WOOD THRUSH <i>HYLOCICHLA MUSTELINA</i>	-- --	G5 S5B,SZN	6 362,049.5

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179759 ABPBJ20170	AMERICAN ROBIN <i>TURDUS MIGRATORIUS</i>	-- --	G5 S5B,S5N	1 45,422.0
178625 ABPBK01010	GRAY CATBIRD <i>DUMETELLA CAROLINENSIS</i>	-- --	G5 S5B,S5N	4 141,917.9
178627 ABPBK06010	BROWN THRASHER <i>TOXOSTOMA RUFUM</i>	-- --	G5 S5B,S5N	3 147,172.1
178532 ABPBN01020	CEDAR WAXWING <i>BOMBYCILLA CEDRORUM</i>	-- --	G5 S4B,S5N	1 33,896.9
179637 ABPBT01010	EUROPEAN STARLING <i>STURNUS VULGARIS</i>	-- --	G5 SE	1 58,146.9
178991 ABPBW01020	WHITE-EYED VIREO <i>VIREO GRISEUS</i>	-- --	G5 S5B,S1N	7 125,120.0
179010 ABPBW01160	BLUE-HEADED VIREO <i>VIREO SOLITARIUS</i>	-- --	G5 S5B,S3N	9 113,778.1
179009 ABPBW01170	YELLOW-THROATED VIREO <i>VIREO FLAVIFRONS</i>	-- --	G5 S4B,SZN	4 144,815.0
179023 ABPBW01210	WARBLING VIREO <i>VIREO GILVUS</i>	-- SR	G5 S2B,SZN	4 12,314.9
179021 ABPBW01240	RED-EYED VIREO <i>VIREO OLIVACEUS</i>	-- --	G5 S5B,SZN	5 306,564.9
178853 ABPBX01020	BLUE-WINGED WARBLER <i>VERMIVORA PINUS</i>	-- SR	G5 S2B,SZN	1 900.4
178852 ABPBX01030	GOLDEN-WINGED WARBLER <i>VERMIVORA CHRYSOPTERA</i>	-- W5	G4 S3B,SZN	2 6,075.9
178868 ABPBX02010	NORTHERN PARULA <i>PARULA AMERICANA</i>	-- --	G5 S5B,SZN	9 190,258.8
178878 ABPBX03010	YELLOW WARBLER <i>DENDROICA PETECHIA</i>	-- --	G5 S4B,SZN	1 7,203.9
178914 ABPBX03170	PINE WARBLER <i>DENDROICA PINUS</i>	-- --	G5 S5B,S4N	6 206,866.6
178903 ABPBX03240	CERULEAN WARBLER <i>DENDROICA CERULEA</i>	FSC SR	G4 S3B,SZN	10 162,030.7
178844 ABPBX05010	BLACK-AND-WHITE WARBLER <i>MNIOTILTA VARIA</i>	-- --	G5 S5B,S1N	6 290,109.2
178979 ABPBX06010	AMERICAN REDSTART <i>SETOPHAGA RUTICILLA</i>	-- --	G5 S5B,SZN	7 130,521.8
178846 ABPBX07010	PROTHONOTARY WARBLER <i>PROTHONOTARIA CITREA</i>	-- --	G5 S5B,SZN	8 91,753.4
178850 ABPBX08010	WORM-EATING WARBLER <i>HELMITHEROS VERMIVORUS</i>	-- --	G5 S4B,SZN	8 84,612.4
178927 ABPBX10010	OVENBIRD <i>SEIURUS AUROCAPILLUS</i>	-- --	G5 S5B,S1N	4 212,607.5

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178935 ABPBX10030	LOUISIANA WATERTHRUSH <i>SEIURUS MOTACILLA</i>	-- --	G5 S4B,SZN	4 37,631.4
178937 ABPBX11010	KENTUCKY WARBLER <i>OPORORNIS FORMOSUS</i>	-- --	G5 S4B,SZN	7 118,650.1
178944 ABPBX12010	COMMON YELLOWTHROAT <i>GEOTHLYPIS TRICHAS</i>	-- --	G5 S5B,S4N	8 294,282.7
178972 ABPBX16010	HOODED WARBLER <i>WILSONIA CITRINA</i>	-- --	G5 S5B,SZN	5 237,503.4
178964 ABPBX24010	YELLOW-BREASTED CHAT <i>ICTERIA VIRENS</i>	-- --	G5 S5B,SZN	4 141,430.3
179888 ABPBX45030	SUMMER TANAGER <i>PIRANGA RUBRA</i>	-- --	G5 S5B,SZN	4 280,330.4
179883 ABPBX45040	SCARLET TANAGER <i>PIRANGA OLIVACEA</i>	-- --	G5 S5B,SZN	5 249,260.5
179124 ABPBX60010	NORTHERN CARDINAL <i>CARDINALIS CARDINALIS</i>	-- --	G5 S5	3 136,974.8
179145 ABPBX63010	BLUE GROSBEAK <i>GUIRACA CAERULEA</i>	-- --	G5 S5B,SZN	3 128,833.2
179150 ABPBX64030	INDIGO BUNTING <i>PASSERINA CYANEA</i>	-- --	G5 S5B,SZN	3 134,852.2
179156 ABPBX64060	PAINTED BUNTING <i>PASSERINA CIRIS</i>	-- --	G5 S3B,SZN	8 33,710.8
179276 ABPBX74030	EASTERN TOWHEE <i>PIPILO ERYTHROPHthalmus</i>	-- --	G5 S5B,S5N	5 466,786.5
179366 ABPBX95010	VESPER SPARROW <i>POECCETES GRAMINEUS</i>	-- SR	G5 S2B,S2N	2 1,217.3
179314 ABPBX99010	SAVANNAH SPARROW <i>PASSERCULUS SANDWICHENSIS</i>	-- SR	G5 S1B,S5N	2 705.6
179492 ABPBXA3010	SONG SPARROW <i>MELOSPIZA MELODIA</i>	-- --	G5 S5B,S5N	2 43,815.8
179032 ABPBXA9010	BOBOLINK <i>DOLICHONYX ORYZIVORUS</i>	-- --	G5 SAB,SZN	1 4,542.3
179045 ABPBXB0010	RED-WINGED BLACKBIRD <i>AGELAIUS PHOENICEUS</i>	-- --	G5 S5B,S5N	2 14,782.5
179104 ABPBXB6070	COMMON GRACKLE <i>QUISCALUS QUISCULA</i>	-- --	G5 S5B,S5N	1 61,403.8
179112 ABPBXB7030	BROWN-HEADED COWBIRD <i>MOLOTHRUS ATER</i>	-- --	G5 S5B,S5N	3 347,153.6
179083 ABPBXB9190	BALTIMORE ORIOLE <i>ICTERUS GALBULA</i>	-- W2	G5 S3B,S3N	1 16,042.2
179236 ABPBY06110	AMERICAN GOLDFINCH <i>CARDUELIS TRISTIS</i>	-- --	G5 S5B,S5N	1 35,335.3

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179921 AMAAA01010	VIRGINIA OPOSSUM <i>DIDELPHIS VIRGINIANA</i>	-- --	G5 S5	4 522,717.5
179936 AMABA01060	SOUTHEASTERN SHREW <i>SOREX LONGIROSTRIS</i>	-- --	G5 S4	6 390,908.5
179968 AMABA03020	SOUTHERN SHORT-TAILED SHREW <i>BLARINA CAROLINENSIS</i>	-- --	G5 S5	5 306,547.9
179971 AMABA04010	LEAST SHREW <i>CRYPTOTIS PARVA</i>	-- --	G5 S5	4 261,658.2
179979 AMABB04010	EASTERN MOLE <i>SCALOPUS AQUATICUS</i>	-- --	G5 S5	2 140,240.2
179988 AMACC01010	LITTLE BROWN BAT <i>MYOTIS LUCIFUGUS</i>	-- W2,W3	G5 S3	4 251,823.2
179993 AMACC01030	SOUTHEASTERN BAT <i>MYOTIS AUSTRORIPARIUS</i>	FSC SC	G3G4 S2?	3 37,955.3
179999 AMACC01130	EASTERN SMALL-FOOTED BAT <i>MYOTIS LEIBII</i>	FSC SC	G3 SUB,S2N	10 137,304.8
180025 AMACC03020	EASTERN PIPISTRELLE <i>PIPISTRELLUS SUBFLAVUS</i>	-- --	G5 S5	3 150,633.8
180008 AMACC04010	BIG BROWN BAT <i>EPTESICUS FUSCUS</i>	-- --	G5 S5	4 520,636.1
180016 AMACC05010	EASTERN RED BAT <i>LASIURUS BOREALIS</i>	-- --	G5 S5	3 150,633.8
180020 AMACC05020	SEMINOLE BAT <i>LASIURUS SEMINOLUS</i>	-- W2,W3	G5 S3B,SZN	5 224,896.0
180022 AMACC06010	EVENING BAT <i>NYCTICEIUS HUMERALIS</i>	-- --	G5 S5B,SZN	4 494,774.9
203452 AMACC08010	TOWNSEND'S BIG-EARED BAT <i>CORYNORHINUS TOWNSENDII</i>	-- --	G4 S1	3 16,879.1
555664 AMACC08020	RAFINESQUE'S BIG-EARED BAT <i>CORYNORHINUS RAFINESQUII</i>	FSC SC	G3G4 S3	4 215,737.2
180088 AMACD01010	BRAZILIAN FREE-TAILED BAT <i>TADARIDA BRASILIENSIS</i>	-- SC	G5 SUB,S2N	2 91,781.9
180124 AMAEB01040	EASTERN COTTONTAIL <i>SYLVILAGUS FLORIDANUS</i>	-- --	G5 S5	3 147,921.0
180207 AMAFB02230	EASTERN CHIPMUNK <i>TAMIAS STRIATUS</i>	-- --	G5 S5	5 191,494.2
180175 AMAFB07010	EASTERN GRAY SQUIRREL <i>SCIURUS CAROLINENSIS</i>	-- --	G5 S5	4 215,905.3
180172 AMAFB07040	EASTERN FOX SQUIRREL <i>SCIURUS NIGER</i>	-- SR	G5 S3	1 4,192.7
180166 AMAFB08010	RED SQUIRREL <i>TAMIASCIURUS HUDSONICUS</i>	-- --	G5 S5	8 202,593.3

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
180170 AMAFB09010	SOUTHERN FLYING SQUIRREL <i>GLAUCOMYS VOLANS</i>	-- --	G5 S5	5 274,467.4
180212 AMAFE01010	AMERICAN BEAVER <i>CASTOR CANADENSIS</i>	-- --	G5 S5	4 60,501.1
180342 AMAFF02020	EASTERN HARVEST MOUSE <i>REITHRODONTOMYS HUMULIS</i>	-- --	G5 S4	1 56,906.5
180278 AMAFF03070	WHITE-FOOTED MOUSE <i>PEROMYSCUS LEUCOPUS</i>	-- --	G5 S5	4 443,110.9
180279 AMAFF03080	COTTON MOUSE <i>PEROMYSCUS GOSSYPINUS</i>	-- --	G5 S5	7 233,928.9
180379 AMAFF04010	GOLDEN MOUSE <i>OCHROTOMYS NUTTALLI</i>	-- --	G5 S5	6 429,695.9
180349 AMAFF07010	HISPID COTTON RAT <i>SIGMODON HISPIDUS</i>	-- --	G5 S5	1 58,174.3
180297 AMAFF11010	MEADOW VOLE <i>MICROTUS PENNSYLVANICUS</i>	-- --	G5 S5	3 40,375.9
180314 AMAFF11150	WOODLAND VOLE <i>MICROTUS PINETORUM</i>	-- --	G5 S5	3 228,370.1
180318 AMAFF15010	MUSKRAT <i>ONDATRA ZIBETHICUS</i>	-- --	G5 S5	3 17,159.7
180386 AMAFH01010	MEADOW JUMPING MOUSE <i>ZAPUS HUDSONIUS</i>	-- W2	G5 S3	2 50,033.3
180402 AMAFK01010	NUTRIA <i>MYOCASTOR COYPUS</i>	-- --	G5 SE	7 14,332.2
180599 AMAJA01010	COYOTE <i>CANIS LATRANS</i>	-- --	G5 S3	4 496,574.6
180609 AMAJA04010	COMMON GRAY FOX <i>UROCYON CINEREOARGENTUS</i>	-- --	G5 S5	5 401,080.6
180544 AMAJB01010	BLACK BEAR <i>URSUS AMERICANUS</i>	-- SR	G5 S3	5 457,500.3
180575 AMAJE02010	COMMON RACCOON <i>PROCYON LOTOR</i>	-- --	G5 S5	4 446,600.4
180554 AMAJF02020	LEAST WEASEL <i>MUSTELA NIVALIS</i>	-- SR	G5 S2?	8 89,096.3
180556 AMAJF02030	LONG-TAILED WEASEL <i>MUSTELA FRENATA</i>	-- W3	G5 S3?	3 150,289.6
180553 AMAJF02050	MINK <i>MUSTELA VISON</i>	-- --	G5 S4?	4 68,356.9
180562 AMAJF06010	STRIPED SKUNK <i>MEPHITIS MEPHITIS</i>	-- --	G5 S4?	2 80,664.0
180572 AMAJF08010	NORTHERN RIVER OTTER <i>LUTRA CANADENSIS</i>	-- --	G5 S4S5	4 65,894.2

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
180582 AMAJH03020	BOBCAT <i>LYNX RUFUS</i>	-- --	G5 S4?	4 493,969.1
180699 AMALC02020	WHITE-TAILED DEER <i>ODOCOILEUS VIRGINIANUS</i>	-- --	G5 S5	3 149,256.4
173752 ARAAB01010	SNAPPING TURTLE <i>CHELYDRA SERPENTINA</i>	-- --	G5 S5	3 56,802.2
173783 ARAAD01010	PAINTED TURTLE <i>CHRYSEMYS PICTA</i>	-- --	G5 S5	3 52,861.1
173771 ARAAD02010	SPOTTED TURTLE <i>CLEMMYS GUTTATA</i>	-- --	G5 S4	9 57,305.8
173786 ARAAD03010	CHICKEN TURTLE <i>DEIROCHELYS RETICULARIA</i>	-- SR	G5 S3	4 7,578.1
173805 ARAAD07020	RIVER COOTER <i>PSEUDEMYS CONCINNA</i>	-- --	G5 S4	2 37,754.8
173809 ARAAD07030	FLORIDA COOTER <i>PSEUDEMYS FLORIDANA</i>	-- --	G5 S3S4	3 31,124.3
173776 ARAAD08010	EASTERN BOX TURTLE <i>TERRAPENE CAROLINA</i>	-- --	G5 S5	4 450,172.3
173819 ARAAD09010	YELLOWBELLY SLIDER <i>TRACHEMYS SCRIPTA</i>	-- --	G5 S5	3 42,705.9
173765 ARAAE01010	STRIPED MUD TURTLE <i>KINOSTERNON BAURII</i>	-- W3	G5 S3?	9 66,137.9
173763 ARAAE01050	EASTERN MUD TURTLE <i>KINOSTERNON SUBRUBRUM</i>	-- --	G5 S5	6 28,768.5
173758 ARAAE02040	COMMON MUSK TURTLE <i>STERNOTHERUS ODORATUS</i>	-- --	G5 S5	3 49,951.9
208680 ARAAG01030	SPINY SOFTSHELL <i>APALONE SPINIFERA</i>	-- --	G5 S3	2 1,194.3
551771 ARABA01010	AMERICAN ALLIGATOR <i>ALLIGATOR MISSISSIPPIENSIS</i>	T(S/A) T	G5 S3	4 26,858.6
174110 ARACB02030	EASTERN GLASS LIZARD <i>OPHISAURUS VENTRALIS</i>	-- --	G5 S4	6 155,384.9
209006 ARACB02040	MIMIC GLASS LIZARD <i>OPHISAURUS MIMICUS</i>	FSC SC	G3 S2	2 1,940.6
173885 ARACF01010	GREEN ANOLE <i>ANOLIS CAROLINENSIS</i>	-- --	G5 S5	5 317,740.1
173865 ARACF14130	EASTERN FENCE LIZARD <i>SCELOPORUS UNDULATUS</i>	-- --	G5 S5	2 76,970.4
173962 ARACH01010	COAL SKINK <i>EUMECES ANTHRACINUS</i>	-- W2	G5 S3	8 162,839.3
173959 ARACH01050	FIVE-LINED SKINK <i>EUMECES FASCIATUS</i>	-- --	G5 S5	6 441,837.5

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
173960 ARACH01070	SOUTHEASTERN FIVE-LINED SKINK <i>EUMECEES INEXPECTATUS</i>	-- --	G5 S5	3 144,485.2
173961 ARACH01080	BROADHEAD SKINK <i>EUMECEES LATICEPS</i>	-- --	G5 S5	6 442,833.4
174008 ARACH03010	GROUND SKINK <i>SCINCELLA LATERALIS</i>	-- --	G5 S5	5 414,534.9
174161 ARADB02010	WORM SNAKE <i>CARPHEPHIS AMOENUS</i>	-- --	G5 S5	4 240,629.3
174195 ARADB03010	SCARLET SNAKE <i>CEMOPHORA COCCINEA</i>	-- --	G5 S4	2 102,081.5
174169 ARADB07010	RACER <i>COLUBER CONSTRICTOR</i>	-- --	G5 S5	4 528,710.5
174158 ARADB10010	RINGNECK SNAKE <i>DIADOPHIS PUNCTATUS</i>	-- --	G5 S5	5 421,186.6
174175 ARADB13020	CORN SNAKE <i>ELAPHE GUTTATA</i>	-- --	G5 S5	4 94,010.5
174177 ARADB13030	RAT SNAKE <i>ELAPHE OBSOLETA</i>	-- --	G5 S5	3 150,633.8
174164 ARADB14010	MUD SNAKE <i>FARANCIA ABACURA</i>	-- --	G5 S4S5	6 15,434.2
563935 ARADB17020	EASTERN HOGNOSE SNAKE <i>HETERODON PLATIRHINOS</i>	-- --	G5 S4S5	2 225,447.7
174185 ARADB19010	MOLE KINGSSNAKE <i>LAMPROPELTIS CALLIGASTER</i>	-- --	G5 S4	2 130,119.5
209247 ARADB19020	COMMON KINGSSNAKE <i>LAMPROPELTIS GETULA</i>	-- --	G5 S5	4 485,874.9
174187 ARADB19050	MILK SNAKE <i>LAMPROPELTIS TRIANGULUM</i>	-- --	G5 S4	5 118,931.2
174244 ARADB22020	REDBELLY WATER SNAKE <i>NERODIA ERYTHROGASTER</i>	-- --	G5 S5	5 277,419.2
174248 ARADB22030	BANDED WATER SNAKE <i>NERODIA FASCIATA</i>	-- --	G5 S5	3 99,408.6
174251 ARADB22060	NORTHERN WATER SNAKE <i>NERODIA SIPEDON</i>	-- --	G5 S5	4 223,830.5
174255 ARADB22070	BROWN WATER SNAKE <i>NERODIA TAXISPILOTA</i>	-- --	G5 S4S5	3 31,724.8
174172 ARADB23010	ROUGH GREEN SNAKE <i>OPHEODRYS AESTIVUS</i>	-- --	G5 S5	5 132,288.5
174263 ARADB26010	PINE SNAKE <i>PITUOPHIS MELANOLEUCUS</i>	-- --	G5 S3	1 4,387.8
174123 ARADB27030	GLOSSY CRAYFISH SNAKE <i>REGINA RIGIDA</i>	-- SR	G5 S2S3	8 14,983.9

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
174125 ARADB27040	QUEEN SNAKE <i>REGINA SEPTENVITTATA</i>	-- --	G5 S4	6 15,666.2
174265 ARADB28010	PINE WOODS SNAKE <i>RHADINAEA FLAVILATA</i>	-- W2	G4 S3	4 12,347.1
174129 ARADB34010	BROWN SNAKE <i>STORERIA DEKAYI</i>	-- --	G5 S5	4 488,843.7
174131 ARADB34030	REDBELLY SNAKE <i>STORERIA OCCIPITOMACULATA</i>	-- --	G5 S5	6 427,316.0
174280 ARADB35020	SOUTHEASTERN CROWNED SNAKE <i>TANTILLA CORONATA</i>	-- --	G5 S4	2 79,122.2
174134 ARADB36120	EASTERN RIBBON SNAKE <i>THAMNOPHIS SAURITUS</i>	-- --	G5 S5	5 298,266.8
174136 ARADB36130	COMMON GARTER SNAKE <i>THAMNOPHIS SIRTALIS</i>	-- --	G5 S5	5 481,880.4
174150 ARADB39010	ROUGH EARTH SNAKE <i>VIRGINIA STRIATULA</i>	-- --	G5 S4S5	4 259,786.9
174296 ARADE01010	COPPERHEAD <i>AGKISTRODON CONTORTRIX</i>	-- --	G5 S5	4 484,847.4
174309 ARADE02010	EASTERN DIAMONDBACK RATTLESNAKE <i>CROTALUS ADAMANTEUS</i>	-- SR	G4 S1	2 5,904.8
174306 ARADE02040	TIMBER RATTLESNAKE <i>CROTALUS HORRIDUS</i>	-- --	G4 S4	5 321,418.5
174302 ARADE03020	PIGMY RATTLESNAKE <i>SISTRURUS MILIARIUS</i>	-- SR	G5 S3	9 183,830.7

Appendix EE. Vertebrate Species with 10 - 20 Percent of Predicted Distribution on GAP Status Lands 1 and 2.

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
173600 AAAAA01070	MABEE'S SALAMANDER <i>AMBYSTOMA MABEEI</i>	-- SR	G4 S3	12 138,513.7
173609 AAAAB01010	TWO-TOED AMPHIUMA <i>AMPHIUMA MEANS</i>	-- --	G5 S4	14 217,039.2
173587 AAAAC01010	HELLBENDER <i>CRYPTOBRANCHUS ALLEGANIENSIS</i>	FSC SC	G4 S3	10 1,126.7
173642 AAAAD03080	BLACKBELLY SALAMANDER <i>DESMOGNATHUS QUADRAMACULATUS</i>	-- --	G5 S5	13 5,905.6
550248 AAAAD05150	BLUE RIDGE TWO-LINED SALAMANDER <i>EURYCEA WILDERAE</i>	-- --	G5 S5	13 35,925.2
550398 AAAAD10010	SHOVELNOSE SALAMANDER <i>LEUROGNATHUS MARMORATUS</i>	-- --	G4 S4	17 5,521.5
173660 AAAAD12090	JORDAN'S SALAMANDER <i>PLETHODON JORDANI</i>	-- --	G5 S5	17 83,425.4
208294 AAAAD12300	SOUTHERN APPALACHIAN SALAMANDER <i>PLETHODON TEYAHALEE</i>	-- W3	G3Q S3?	15 136,249.1
173647 AAAAD14010	MANY-LINED SALAMANDER <i>STEREOCHILUS MARGINATUS</i>	-- --	G5 S4	14 198,108.8
173736 AAAAG02010	LESSER SIREN <i>SIREN INTERMEDIA</i>	-- --	G5 S4	12 147,045.2
173735 AAAAG02020	GREATER SIREN <i>SIREN LACERTINA</i>	-- --	G5 S4	12 160,912.7
173505 AAABC02060	GREEN TREEFROG <i>HYLA CINEREA</i>	-- --	G5 S5	15 236,722.1
173499 AAABC02090	PINE WOODS TREEFROG <i>HYLA FEMORALIS</i>	-- --	G5 S5	12 204,456.6
173508 AAABC02100	BARKING TREEFROG <i>HYLA GRATIOSA</i>	-- --	G5 S4	13 220,293.8
173504 AAABC02120	SQUIRREL TREEFROG <i>HYLA SQUIRELLA</i>	-- --	G5 S5	11 222,576.6
207286 AAABC05110	LITTLE GRASS FROG <i>PSEUDACRIS OCULARIS</i>	-- --	G5 S5	14 206,161.6
173435 AAABH01160	PICKEREL FROG <i>RANA PALUSTRIS</i>	-- --	G5 S5	10 127,819.0
173440 AAABH01200	WOOD FROG <i>RANA SYLVATICA</i>	-- --	G5 S5	12 90,107.6
173437 AAABH01230	CARPENTER FROG <i>RANA VIRGATIPES</i>	-- --	G5 S4	16 205,092.2
174846 ABNGA02010	LEAST BITTERN <i>IXOBRYCHUS EXILIS</i>	-- W3	G5 S3B,SZN	14 34,095.6
554135 ABNGA04040	GREAT EGRET <i>ARDEA ALBA</i>	-- --	G5 S4B,S4N	10 76,878.4

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
174813 ABNGA06030	SNOWY EGRET <i>EGRETTA THULA</i>	-- SC	G5 S3B,S3N	18 53,536.0
174827 ABNGA06040	LITTLE BLUE HERON <i>EGRETTA CAERULEA</i>	-- SC	G5 S3B,S3N	14 56,219.3
174826 ABNGA06050	TRICOLORED HERON <i>EGRETTA TRICOLOR</i>	-- SC	G5 S3B,S3N	19 53,414.5
174803 ABNGA07010	CATTLE EGRET <i>BUBULCUS IBIS</i>	-- --	G5 S4B,SZN	12 66,139.7
174832 ABNGA11010	BLACK-CROWNED NIGHT-HERON <i>NYCTICORAX NYCTICORAX</i>	-- --	G5 S4B,S4N	12 7,131.8
174930 ABNGE01010	WHITE IBIS <i>EUDOCIMUS ALBUS</i>	-- W2	G5 S3B,S3N	17 54,348.9
175590 ABNKC01010	OSPREY <i>PANDION HALIAETUS</i>	-- --	G5 S4B,S1N	13 99,999.5
175420 ABNKC10010	BALD EAGLE <i>HALIAETUS LEUCOCEPHALUS</i>	LT E	G4 S2B,S2N	11 140,634.2
175790 ABNLC11010	RUFFED GROUSE <i>BONASA UMBELLUS</i>	-- --	G5 S4	18 107,054.3
176292 ABNME14020	AMERICAN COOT <i>FULICA AMERICANA</i>	-- --	G5 SAB,S5N	14 4,026.9
176815 ABNNM03210	GREAT BLACK-BACKED GULL <i>LARUS MARINUS</i>	-- --	G5 S3B,S5N	16 24,833.4
176924 ABNNM08020	CASPIAN TERN <i>STERNA CASPIA</i>	-- SR	G5 S1B,S2N	19 1,673.3
178257 ABNYF07060	RED-COCKADED WOODPECKER <i>PICOIDES BOREALIS</i>	LE E	G3 S2	11 101,193.0
179737 ABPAV10080	FISH CROW <i>CORVUS OSSIFRAGUS</i>	-- --	G5 S5B,S5N	12 242,460.7
179725 ABPAV10110	COMMON RAVEN <i>CORVUS CORAX</i>	-- SR	G5 S3	10 197,573.9
178911 ABPBX03020	CHESTNUT-SIDED WARBLER <i>DENDROICA PENNSYLVANICA</i>	-- --	G5 S5B,SZN	18 113,689.5
178888 ABPBX03050	BLACK-THROATED BLUE WARBLER <i>DENDROICA CAERULESCENS</i>	-- --	G5 S4B,SZN	20 111,068.8
178898 ABPBX03100	BLACK-THROATED GREEN WARBLER <i>DENDROICA VIRENS</i>	-- --	G5 S4B,SZN	15 225,327.5
178904 ABPBX03120	BLACKBURNIAN WARBLER <i>DENDROICA FUSCA</i>	-- --	G5 S4B,SZN	18 109,970.6
178905 ABPBX03130	YELLOW-THROATED WARBLER <i>DENDROICA DOMINICA</i>	-- --	G5 S5B,SZN	14 210,922.4
178848 ABPBX09010	SWAINSON'S WARBLER <i>LIMNOTHLYPIS SWAINSONII</i>	-- W2,W5	G4 S3B,SZN	12 195,244.3

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
179139 ABPBX61030	ROSE-BREASTED GROSBK <i>PHEUCTICUS LUDOVICIANUS</i>	-- --	G5 S4B,SZN	13 121,706.7
179108 ABPBXB6060	BOAT-TAILED GRACKLE <i>QUISCALUS MAJOR</i>	-- --	G5 S5B,S5N	13 36,106.0
179929 AMABA01010	MASKED SHREW <i>SOREX CINEREUS</i>	-- --	G5 S4	10 104,264.2
179943 AMABA01180	SMOKY SHREW <i>SOREX FUMEUS</i>	-- --	G5 S4	17 96,943.9
179946 AMABA01250	PYGMY SHREW <i>SOREX HOYI</i>	-- --	G5 S3	16 99,487.4
179967 AMABA03010	NORTHERN SHORT-TAILED SHREW <i>BLARINA BREVICAUDA</i>	-- --	G5 S5	13 340,506.4
179977 AMABB03010	HAIRY-TAILED MOLE <i>PARASCALOPS BREWERI</i>	-- --	G5 S4	10 151,722.5
179964 AMABB05010	STAR-NOSED MOLE <i>CONDYLURA CRISTATA</i>	-- --	G5 S4	14 169,776.0
180001 AMACC01100	INDIANA BAT <i>MYOTIS SODALIS</i>	LE E	G2 SUB,SZN	17 138,688.5
180000 AMACC01150	NORTHERN BAT <i>MYOTIS SEPTENTRIONALIS</i>	-- SC	G4 SUB,S2N	10 152,393.9
180120 AMAEB01030	MARSH RABBIT <i>SYLVILAGUS PALUSTRIS</i>	-- --	G5 S5	14 246,545.3
180336 AMAFF01010	MARSH RICE RAT <i>ORYZOMYS PALUSTRIS</i>	-- --	G5 S5	12 239,420.3
180276 AMAFF03040	COMMON DEER MOUSE <i>PEROMYSCUS MANICULATUS</i>	-- --	G5 S5	14 51,137.2
180372 AMAFF08010	EASTERN WOODRAT <i>NEOTOMA FLORIDANA</i>	-- --	G5 S3	10 147,712.4
555661 AMAFF08100	ALLEGHENY WOODRAT <i>NEOTOMA MAGISTER</i>	FSC SC	G3G4 S1S2	10 1,698.4
180324 AMAFF17010	SOUTHERN BOG LEMMING <i>SYNAPTOMYS COOPERI</i>	-- W2,W5	G5 S3	16 50,255.2
180390 AMAFH02010	WOODLAND JUMPING MOUSE <i>NAPAEUZAPUS INSIGNIS</i>	-- --	G5 S3	13 98,242.6
180570 AMAJF05010	EASTERN SPOTTED SKUNK <i>SPILOGALE PUTORIUS</i>	-- --	G5 S3S4	11 117,193.4
180722 AMALA01010	FERAL PIG <i>SUS SCROFA</i>	-- --	G5 SE	13 195,533.4
173814 ARAAD07050	REDBELLY TURTLE <i>PSEUDEMYS RUBRIVENTRIS</i>	-- --	G5 S3	13 20,687.7
174166 ARADB14020	RAINBOW SNAKE <i>FARANCIA ERYTROGRAMMA</i>	-- --	G5 S3S4	16 232,277.6

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
174273 ARADB31010	BLACK SWAMP SNAKE <i>SEMINATRIX PYGAEA</i>	-- SR	G5 S2S3	17 164,966.6
174299 ARADE01020	COTTONMOUTH <i>AGKISTRODON PISCIVORUS</i>	-- --	G5 S5	14 246,046.8

Appendix FF. Vertebrate Species with 20 - 50 Percent of Predicted Distribution on GAP Status Lands 1 and 2.

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
173645 AAAAD03100	PIGMY SALAMANDER DESMOGNATHUS WRIGHTII	FSC W5	G3G4 S3	23 44,259.0
173643 AAAAD03110	SANTEETLAH DUSKY SALAMANDER DESMOGNATHUS SANTEETLAH	-- SR	G3Q S2S3	37 10,232.5
550253 AAAAD03130	CAROLINA MOUNTAIN DUSKY DESMOGNATHUS CAROLINENSIS	-- --	G2 S?	20 21,313.7
550243 AAAAD03140	OCOEE SALAMANDER DESMOGNATHUS OCOEE	-- --	G2G3 S?	28 42,570.3
173690 AAAAD05020	JUNALUSKA SALAMANDER EURYCEA JUNALUSKA	FSC SC	G2Q S2	21 357.2
173668 AAAAD12160	SOUTHERN REDBACK SALAMANDER PLETHODON SERRATUS	-- --	G5 S4	21 36,143.0
174685 ABNFC01020	BROWN PELICAN PELECANUS OCCIDENTALIS	-- SC	G4 S3B,S4N	24 21,973.1
174856 ABNGA01020	AMERICAN BITTERN BOTAURUS LENTIGINOSUS	-- SR	G4 S1B,S3N	29 27,315.2
174924 ABNGE02010	GLOSSY IBIS PLEGADIS FALCINELLUS	-- SC	G5 S2B,S1N	24 37,839.2
175086 ABNJB10130	BLUE-WINGED TEAL ANAS DISCORS	-- W2	G5 S1B,S2N	22 6,497.9
175073 ABNJB10160	GADWALL ANAS STREPERA	-- --	G5 S2B,S4N	25 18,837.9
175430 ABNKC11010	NORTHERN HARRIER CIRCUS CYANEUS	-- SR	G5 S1B,S4N	24 32,046.2
175905 ABNLC07010	RING-NECKED PHEASANT PHASIANUS COLCHICUS	-- --	G5 SE	34 1,844.5
176263 ABNME03040	BLACK RAIL LATERALLUS JAMAICENSIS	FSC SR	G4 S3B,S2N	30 31,673.8
176209 ABNME05010	CLAPPER RAIL RALLUS LONGIROSTRIS	-- --	G5 S5	29 26,932.2
176207 ABNME05020	KING RAIL RALLUS ELEGANS	-- W1,W3	G4G5 S3B,S3N	26 32,545.6
176221 ABNME05030	VIRGINIA RAIL RALLUS LIMICOLA	-- --	G5 S3B,S5N	31 30,804.2
176284 ABNME13010	COMMON MOORHEN GALLINULA CHLOROPUS	-- --	G5 S3B,S3N	28 32,303.9
176517 ABNNB03040	WILSON'S PLOVER CHARADRIUS WILSONIA	-- SR	G5 S3B,SZN	24 3,918.2
176507 ABNNB03070	PIPING PLOVER CHARADRIUS MELODUS	LT T	G3 S2B,S2N	24 3,918.2
176472 ABNNC01010	AMERICAN OYSTERCATCHER HAEMATOPUS PALLIATUS	-- --	G5 S4B,S4N	28 23,902.6

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
176726 ABNND01010	BLACK-NECKED STILT <i>HIMANTOPUS MEXICANUS</i>	-- SR	G5 S2B	26 20,230.3
176638 ABNNF02010	WILLET <i>CATOPTROPHORUS SEMIPALMATUS</i>	-- --	G5 S4B,S4N	30 33,865.7
176926 ABNNM08010	GULL-BILLED TERN <i>STERNA NILOTICA</i>	-- T	G5 S3B,SZN	29 26,879.3
176922 ABNNM08030	ROYAL TERN <i>STERNA MAXIMA</i>	-- --	G5 S4B,S4N	24 4,309.9
176927 ABNNM08050	SANDWICH TERN <i>STERNA SANDVICENSIS</i>	-- W2,W5	G5 S3B,SZN	28 26,800.2
176888 ABNNM08070	COMMON TERN <i>STERNA HIRUNDO</i>	-- --	G5 S4B,SZN	28 26,801.2
176887 ABNNM08090	FORSTER'S TERN <i>STERNA FORSTERI</i>	-- W2	G5 S3B,S5N	27 31,650.1
176923 ABNNM08100	LEAST TERN <i>STERNA ANTILLARUM</i>	-- W1,W5	G4 S3B,SZN	23 27,028.1
176894 ABNNM08150	SOOTY TERN <i>STERNA FUSCATA</i>	-- --	G5 S1B,S3N	32 2,241.4
554447 ABNNM14010	BLACK SKIMMER <i>RYNCHOPS NIGER</i>	-- SC	G5 S3B,S3N	24 26,960.5
178202 ABNYF05010	YELLOW-BELLIED SAPSUCKER <i>SPHYRAPICUS VARIUS</i>	-- SR	G5 S2B,S5N	21 73,727.7
178340 ABPAE33030	ALDER FLYCATCHER <i>EMPIDONAX ALNORUM</i>	-- SR	G5 S2B,SZN	44 13,509.7
178784 ABPAZ01010	RED-BREASTED NUTHATCH <i>SITTA CANADENSIS</i>	-- W2,W5	G5 S3B,S4N	41 17,388.7
178803 ABPBA01010	BROWN CREEPER <i>CERTHIA AMERICANA</i>	-- W2,W5	G5 S3B,S5N	49 15,945.0
178547 ABPBG09050	WINTER WREN <i>TROGLODYTES TROGLODYTES</i>	-- --	G5 S3B,S5N	27 44,160.2
178608 ABPBG10020	MARSH WREN <i>CISTOTHORUS PALUSTRIS</i>	-- --	G5 S4B,S4N	29 34,909.2
179796 ABPBJ18080	VEERY <i>CATHARUS FUSCESCENS</i>	-- --	G5 S4B,SZN	24 77,863.4
178977 ABPBX16030	CANADA WARBLER <i>WILSONIA CANADENSIS</i>	-- --	G5 S4B,SZN	23 89,564.1
179346 ABPBXA0060	SEASIDE SPARROW <i>AMMODRAMUS MARITIMUS</i>	-- --	G4 S4B,S4N	29 29,856.7
179410 ABPBXA5020	DARK-EYED JUNCO <i>JUNCO HYEMALIS</i>	-- --	G5 S5B,S5N	23 100,552.9
179259 ABPBY05010	RED CROSSBILL <i>LOXIA CURVIROSTRA</i>	-- W2,W3	G5 S3B,S3N	37 17,124.8

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
179933 AMABA01150	WATER SHREW <i>SOREX PALUSTRIS</i>	-- --	G5 S2	31 6,309.4
179941 AMABA01210	LONG-TAILED SHREW <i>SOREX DISPAR</i>	-- SC	G4 S2	25 10,688.7
180294 AMAFF09020	SOUTHERN RED-BACKED VOLE <i>CLETHRIONOMYS GAPPERI</i>	-- --	G5 S4	24 85,086.5
180307 AMAFF11090	ROCK VOLE <i>MICROTUS CHROTORRHINUS</i>	-- --	G4 S2	40 59,862.4
180600 AMAJA01020	RED WOLF <i>CANIS RUFUS</i>	LEXN E	G1 S1	25 131,026.9
180691 AMATA01010	FERAL HORSE <i>EQUUS CABALLUS</i>	-- --	G5 SE	45 3,986.2
173830 ARAAA01010	LOGGERHEAD <i>CARETTA CARETTA</i>	LT T	G3 S2B,S2N	24 1,309.3
173833 ARAAA02010	GREEN TURTLE <i>CHELONIA MYDAS</i>	LT T	G3 S1B,SZN	25 1,304.7
551770 ARAAA04010	ATLANTIC RIDLEY <i>LEPIDOCHELYS KEMPII</i>	LE E	G1 SAB,SZN	24 1,313.4
173843 ARAAC01010	LEATHERBACK <i>DERMOCHELYS CORIACEA</i>	LE E	G3 SZN	24 1,297.4
173780 ARAAD06010	DIAMONDBACK TERRAPIN <i>MALACLEMYS TERRAPIN</i>	-- SC	G4 S3	22 6,147.5

Appendix GG. Vertebrate Species with > 50 Percent of Predicted Distribution on GAP Status Lands 1 and 2.

ITIS TSN NS EICode	Common Name Scientific	Federal Status State Status	NS Global NS State	Percent Hectares
173639 AAAAD03050	IMITATOR SALAMANDER <i>DESMOGNATHUS IMITATOR</i>	-- W2	G3 S3	50 34,509.5
177942 ABNSB15020	NORTHERN SAW-WHET OWL <i>AEGOLIUS ACADICUS</i>	-- SC	G5 S2B,S2N	73 10,025.3
554382 ABPAW01010	BLACK-CAPPED CHICKADEE <i>POECILE ATRICAPILLUS</i>	-- SC	G5 S3	70 12,240.8
179865 ABPBJ05010	GOLDEN-CROWNED KINGLET <i>REGULUS SATRAPA</i>	-- SC	G5 S3B,S5N	56 11,501.3
179779 ABPBJ18110	HERMIT THRUSH <i>CATHARUS GUTTATUS</i>	-- SR	G5 S1B,S5N	71 8,894.5
179233 ABPBY06030	PINE SISKIN <i>CARDUELIS PINUS</i>	-- W3	G5 SZB,S4N	71 8,894.5
552514 AMAEB01090	APPALACHIAN COTTONTAIL <i>SYLVILAGUS OBSCURUS</i>	FSC SR	G4 S3	57 15,912.2
180169 AMAFB09020	NORTHERN FLYING SQUIRREL <i>GLAUCOMYS SABRINUS</i>	-- --	G5 S1	61 13,617.7

Appendix HH. List of Example GAP Applications

Businesses and Non-government Organizations:

The following are some examples of applications of GAP data by the private sector:

- The Wyoming Natural Heritage Program (a private non-government organization) transformed the endangered and sensitive species database into a spatially referenced digital geographic information system using the GAP digital base map and other GAP spatial data.
- Hughes Corp. is experimenting with the Utah and Nevada GAP digital base maps, simulating images to aid the development of new space-based remote sensing devices.
- The Nature Conservancy used the Wyoming GAP data to develop a map of ecoregions of Wyoming.
- Weyerhaeuser Corp. is using the Arkansas GAP data in managing their lands in Arkansas.
- IBM Corp. is funding a project at the University of California-Santa Barbara that, in part, uses GAP data in the development of visualization software.
- NM-GAP vegetation data is being used for an environmental assessment of a proposed spaceport, a state/private venture.

County and City Planning:

Some other examples of the use of GAP by local governments are:

- CA-GAP biological data were combined with the Southern California Association of Governments (SCAG) land ownership data to show which ownerships and jurisdictions were needed for joint conservation planning and management of a particular natural community or species, maximizing efficiency and minimizing the potential for yet another conservation crisis.
- In California, county and city planners of several jurisdictions, wildlife agencies, developers of the 4S Ranch property, and the state Natural Communities Conservation Planning program used the GAP regional data, as well as more detailed information, to conserve 1,640 acres of habitat within a 2,900-acre planned development.
- Day-to-day county planning operations in Piute, Grande, and Washington counties, Utah.
- County planners in Piute County, Utah, used GAP data to optimize the siting of a proposed sawmill for aspen with respect to the distribution of aspen stands.
- Missoula County, Montana, used the GAP land cover map of the area as a base map for its comprehensive long-range plan.
- Snohomish County, Washington, used the GAP land cover map in meeting state requirements for a growth management plan.
- The City of Bainbridge Island, Washington, used GAP data to assist them in development of a watershed planning project.

State Uses:

The following are some examples of uses of GAP data by state agencies.

- The GAP database of species habitats was used by the Tennessee Wildlife Resources Agency (TWRA) to update its book "Species in Need of Management."
- Images of land cover derived from GAP TM data are used by TWRA for locating particular habitat types. Information on the locations of these habitat types is provided by TWRA to the public for a wide variety of public service functions, from education to cooperative resource management.
- Early GAP data developed by TWRA were used to help identify an extremely important area of the state with high biodiversity that was subsequently purchased by the state for conservation.
- Preliminary findings from GAP were used by TWRA to develop three resource management initiatives.
- The Tennessee GAP project, which is being carried out primarily by TWRA, is the foundation of a multi-agency, long-term biodiversity program for Tennessee.
- GAP data have been used by the Tennessee Forestry Stewardship Program to help develop a district program for nine conservation planning districts, outlining Best Management Practices (BMPs) for biological conservation on private lands.
- GAP data are being used extensively by TWRA in the preparation of project proposals to the North American Waterfowl Conservation Program. These proposals require that biodiversity issues are addressed in specific detail. The use of GAP data on occurrence of land cover types and terrestrial vertebrates has made this possible.
- The Wyoming Department of Fish and Game used GAP data to assist them in transforming the Wildlife Observation System database into a spatially referenced geographic information system.
- The Utah Division of Wildlife Resources and the Bear River Water Conservancy District used the Utah GAP land cover map in a resource management assessment for mitigating conflicts between a proposed groundwater withdrawal project and the maintenance of an elk calving area in the Uinta Mountains.
- The Utah Division of Wildlife Resources, the Rocky Mountain Elk Foundation, and Sheik Safari International used the Utah GAP land cover map to identify critical elk habitat. The environmental profile of these areas was then used to identify other similar areas for elk habitat enhancement.
- The Utah Division of Wildlife Resources used the Utah GAP land cover map for a rapid ecological assessment of the Echo Henefer Wildlife Management Area.
- The Washington Department of Fish and Wildlife used GAP data to develop a breeding bird atlas and an atlas of mammals of Washington State.
- The Washington Department of Fish and Wildlife uses GAP data to operate an integrated landscape management program.
- The Washington Department of Fish and Wildlife uses GAP data from Eastern Washington to assist with an innovative program that brings the forest products industry, state agency biologists, non-government organizations, and tribal biologists together in the field to jointly determine the appropriate management practices for any particular site of concern (Timber, Fish & Wildlife Program).
- The Idaho Department of Fish and Game used GAP data to evaluate the impact from expanded military training activities on public lands in Southern Idaho.

- The Idaho Department of Fish and Game uses GAP data for regional planning efforts on a regular basis.

Statewide Planning:

Biodiversity planning programs or projects are now under way in Arizona, California, Colorado, Maine, Missouri, Nevada, Oregon, and Tennessee. It is likely that similar efforts will develop in other states. These activities were the subject of the State Biodiversity Programs meeting discussed on page _ in this report. In some cases, these efforts grew out of the state GAP project, however, in most cases, the GAP data are being used to meet a previously defined need. In all cases, GAP data are central to their development and operations. The goals of each of these programs or projects are presented briefly below.

Federal Agency Applications:

Some examples of applications of GAP data by federal agencies follow:

- GAP data are being supplied to all military installations in the Great Basin ecoregion for integrated management of the natural resources. These installations constitute a very large amount of land area. Much of it is of high value for native species.
- The Ouachita National Forest used the Arkansas GAP data to help them develop an ecosystem management plan.
- The Wyoming GAP data were used by NASA to calibrate a model that predicts vegetation types based on climate and soil variables.
- The potential contributions to biodiversity conservation of four different options proposed for new wilderness designation in Idaho were quantified by the Idaho Cooperative Fish and Wildlife Research Unit in cooperation with the Park Studies Unit.
- The potential contributions to biodiversity conservation of four different options proposed for new national park designation in Idaho were quantified by the Idaho Cooperative Park Studies Unit.
- The U.S. Forest Service in Booneville, Arkansas, used the Arkansas GAP data land cover maps in a 3-dimensional presentation to provide the public with a visual representation of the region and to enhance the public's involvement with the National Forest planning process.
- The U.S. Fish and Wildlife Service regularly uses the GAP data for Southern California for habitat evaluation and management.
- The U.S. Forest Service, Bureau of Land Management, and National Park Service are using the GAP data for a wide variety of natural resource management operations in Utah. For example, the entire Utah GAP database is directly linked with existing National Park Service databases for use by National Parks.
- The Bureau of Land Management uses the Wyoming GAP data for managing the Buffalo Resource Area.
- The U.S. Forest Service used the Utah GAP data to help assist them in evaluating human-induced impacts to forested lands surrounding ski resorts in central Utah.
- The U.S. Fish and Wildlife Service in Delaware used GAP data to help identify potential habitat for the federally endangered Delmarva fox squirrel. These maps

were displayed and served as a catalyst for bringing together people with a stake in the issue.

- The U.S. Fish and Wildlife Service used the Indiana GAP data as part of a biological assessment for the base closure of the Jefferson Proving Grounds and its conversion to a National Wildlife Refuge. This 58,000-acre installation has restricted human access due to unexploded ordinance and contains some of the highest-quality natural habitat in Indiana.
- The U.S. Fish and Wildlife Service in Louisiana used GAP data to avoid conflict over the designation of critical habitat of the federally endangered Louisiana black bear.
- The NOAA Coastal Marine Sanctuary in Washington State uses GAP data for an educational display.
- In Washington and New Mexico, digital land cover maps have been distributed to all National Forests.
- The U.S. Natural Resources Conservation Service (NRCS) in New Mexico is using a GAP clustered imagery as a base for their land cover mapping activities.
- The Department of Defense is funding the development of an electronic environmental information system for the Mojave ecoregion, which would use GAP data as a foundation or base layer of information. The system will link 29 DoD installations to a common source of environmental information.