



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Bufflehead

*Bucephala albeola*

Taxa: Avian

Order: Anseriformes

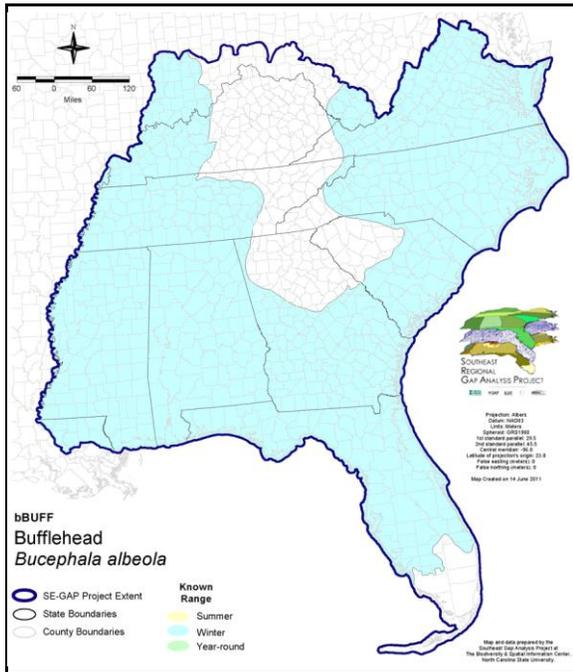
Family: Anatidae

SE-GAP Spp Code: **bBUFF**

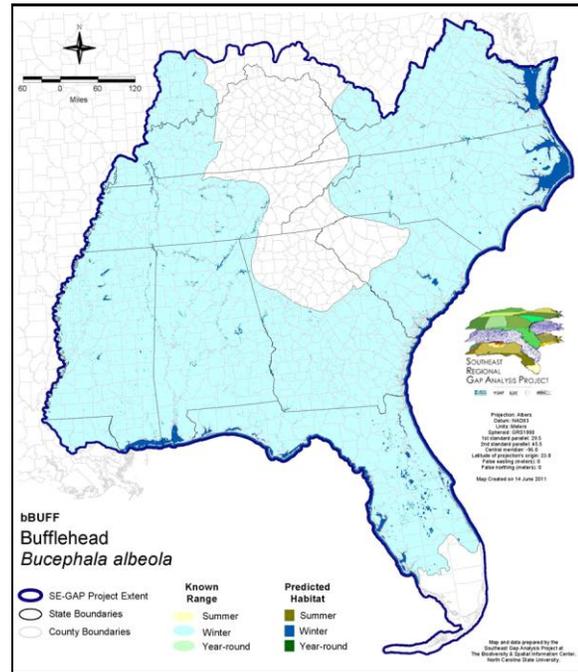
ITIS Species Code: 175145

NatureServe Element Code: ABNJB18030

#### KNOWN RANGE:



#### PREDICTED HABITAT:



Range Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Range\\_bBUFF.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_bBUFF.pdf)

Predicted Habitat Map Link: [http://www.basic.ncsu.edu/segap/datazip/maps/SE\\_Dist\\_bBUFF.pdf](http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_bBUFF.pdf)

GAP Online Tool Link: <http://www.gapservice.ncsu.edu/segap/segap/index2.php?species=bBUFF>

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bBUFF\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bBUFF_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AL (GB), ID (G), KY (N), NV (YES), NY (PB - GS), RI (Not Listed), UT (None), BC (4 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (S5B,S5N), AL (S4N), AR (S4N), AZ (S5N), CA (SNR), CO (S1B), CO (S1B), CT (SNA), DC (S1S2N), DE (S4N), FL (SNRN), GA (S5), HI (SNA), IA (S3N), IA (S3N), ID (S3B,S3N), IL (SNA), IN (S4N), KS (SNA), KY (S3N), LA (S4N), MA (S5N), MD (S5N), ME (S5N), MI (SNRN), MN (SNRB), MN (SNRB), MO (SNRN), MS (S4N), MT (S5B), MT (S5B), NC (S5N), ND (S4), NE (SNRN), NH (SNA), NJ (SNA), NM (S5N), NV (S4N), NY (SNRN), OH (SNRN), OK (S4N), OR (S2B,S5N), PA (S4N), RI (SNA), SC (SNRN), SD (S1B,S2N), TN (S5N), TX (S5N), UT (S3S4N), VA (SNRN), VT (S4N), WA (S4N), WI (SNA), WV (S4N), WY (S2B), AB (S5), BC (S5B), LB (S1S2N), MB (S4S5B), MB (S4S5B), NB (S3N), NF (S1S2N), NS (S4N), NT (SNRB), ON (S4), ON (S4), PE (SNA), QC (S4B), SK (S5B,S3M,S1N), YT (S3B)

**SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:**

	US FWS		US Forest Service		Tenn. Valley Author.		US DOD/ACOE	
	ha	%	ha	%	ha	%	ha	%
Status 1	93.7	5	0.0	0	0.0	0	0.0	0
Status 2	79.2	4	0.0	0	0.0	0	0.0	0
Status 3	1.6	< 1	0.0	0	0.0	0	23.6	1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	174.5	9	0.0	0	0.0	0	23.6	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	39.9	2	0.0	0
Status 2	0.0	0	160.6	9	0.0	0	0.0	0
Status 3	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
Total	0.0	0	160.6	9	39.9	2	0.0	0
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	13.6	< 1	0.0	0
Status 3	0.0	0	8.5	< 1	32.4	2	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	8.5	< 1	46.0	2	0.0	0
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	59.1	3	0.0	0	0.0	0	0.0	0
Status 3	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
Total	59.1	3	0.0	0	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	133.6 7			
Status 2	0.0	0	0.0	0	312.5 17			
Status 3	0.0	0	0.0	0	66.1 4			
Status 4	1,091.3	59	238.3	13	1,329.6 72			
Total	1,091.3	59	238.3	13	1,841.7 100			

GAP 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.

GAP 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.

GAP 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.

GAP 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.

## PREDICTED HABITAT MODEL(S):

### Winter Model:

Habitat Description: Buffleheads are a winter resident throughout the southeast. They are primarily a coastal, salt water duck, feeding on crustaceans and molluscs in shallow water bays and inlets (Gauthier 1993). Inland buffleheads will occupy ponds, lakes, and slow-moving rivers (Gauthier 1993).

Ecosystem Classifiers: Primarily aquatic, Open water (Fresh & brackish). Amy Silvano 8sept05

#### Hydrography Mask:

Slow Current Only

Utilizes flowing water features with buffer of unlimited into selected water features.

Utilizes open water features with buffer of unlimited into selected water features.

#### Selected Map Units:

Functional Group	Map Unit Name
Water	Open Water (Brackish/Salt)
Water	Open Water (Fresh)

**CITATIONS:** American Ornithologists' Union (AOU), Committee on Classification and Nomenclature. 1983. Check-list of North American Birds. Sixth Edition. American Ornithologists' Union, Allen Press, Inc., Lawrence, Kansas.

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Gauthier, G. 1993. Bufflehead (*Bucephala albeola*). In *The Birds of North America*, No. 67 (A. Pool and F. Gill, Eds). Philadelphia: The Academy of Natural Sciences; Washington, D.C.: The American Ornithologists' Union.

Gauthier, G., and J. N. M. Smith. 1987. Territorial behaviour, nest-site availability, and breeding density in buffleheads. *J. Anim. Ecol.* 56:171-184.

Harrison, C. 1978. A field guide to the nests, eggs and nestlings of North American birds. Collins, Cleveland, Ohio.

Root, T. 1988. Atlas of wintering North American birds: An analysis of Christmas Bird Count data. University of Chicago Press. 336 pp.

Savard, J.-P. L., G. E. J. Smith, and J. N. M. Smith. 1991. Duckling mortality in Barrow's goldeneye and bufflehead broods. *Auk* 108:568-577.

Terres, J.K. 1980. The Audubon Society encyclopedia of North American birds. Alfred A. Knopf, New York.

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This data was compiled and/or developed by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.