



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Northern Parula

*Parula americana*

Taxa: Avian

Order: Passeriformes

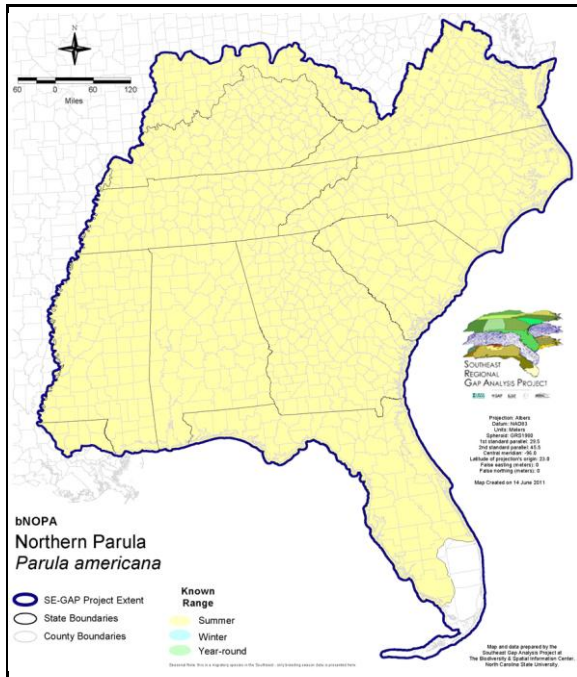
Family: Parulidae

SE-GAP Spp Code: **bNOPA**

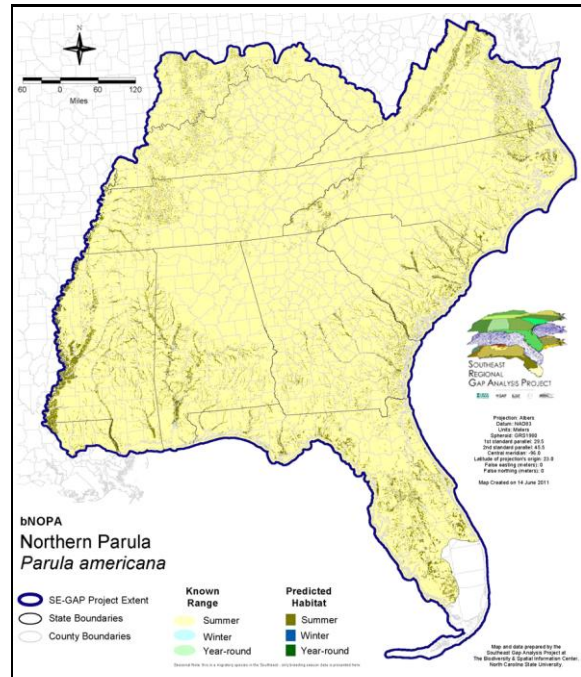
ITIS Species Code: 178868

NatureServe Element Code: ABPBX02010

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bNOPA\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bNOPA_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (SC), CT (SC), DE (E), KY (N), MA (T), NJ (P/S), NV (YES), NY (PB), RI (State Threatened), UT (None), BC (8 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (SNA), AL (S5B), AL (S5B), AR (S4B,S4N), AZ (S2N), CA (SNA), CO (SNA), CT (S1B), CT (S1B), DC (S3B,S3N), DE (S1B), FL (SNRB), GA (S5), IA (S3B,S3N), IL (S5), IN (S4B), KS (S4B), KY (S4S5B), LA (S5B), MA (S1B,S4M), MD (S4S5B), ME (S5), MI (S4), MN (SNRB), MO (SNRB), MS (S5B), MS (S5B), MT (SNA), NC (S5B), NC (S5B), ND (SNA), NE (SNA), NH (S5B), NJ (S3B), NM (S4N), NV (SNA), NY (S3S4), OH (S3), OK (S3B), OR (SNA), PA (S4), RI (S1B,S1N), SC (SNRB), SD (SNA), TN (S5), TX (S4B), UT (SNA), VA (S5), VT (S4B), VT (S4B), WA (SNA), WI (S3B), WI (S3B), WV (S5B), WY (SNA), AB (SNA), BC (SNA), LB (SNA), MB (S3B), MB (S3B), NB (S5B), NF (S1?B), NS (S5B), ON (S4B), PE (S5B), QC (S5B), SK (SNA), SK (SNA)

**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	49,325.9	< 1	7,899.4	< 1	0.0	0	0.0	0
Status 2	92,994.5	1	45,579.4	< 1	0.0	0	1,102.1	< 1
Status 3	933.0	< 1	218,152.7	3	885.6	< 1	76,011.2	1
Status 4	29.2	< 1	0.0	0	0.0	0	0.0	0
Total	143,282.5	2	271,631.5	4	885.6	< 1	77,113.4	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	80,557.4	1	72.5	< 1	9,408.6	< 1
Status 2	0.0	0	6,038.1	< 1	3,120.4	< 1	0.0	0
Status 3	9,391.5	< 1	82,714.2	1	0.0	0	606.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	9,391.5	< 1	169,309.7	2	3,192.8	< 1	10,015.0	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	171.3	< 1	46.1	< 1	0.0	0
Status 2	0.0	0	763.7	< 1	214,280.1	3	0.0	0
Status 3	2,066.8	< 1	194,447.2	3	55,193.0	< 1	43,634.5	< 1
Status 4	0.0	0	0.0	0	4,930.1	< 1	0.7	< 1
Total	2,066.8	< 1	195,382.1	3	274,449.3	4	43,635.2	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,769.0	< 1	0.0	0	0.0	0
Status 2	6,152.6	< 1	34,903.8	< 1	0.0	0	474.8	< 1
Status 3	0.0	0	8,816.3	< 1	1,688.9	< 1	33,794.0	< 1
Status 4	0.0	0	0.0	0	421.2	< 1	0.0	0
Total	6,152.6	< 1	45,489.1	< 1	2,110.1	< 1	34,268.9	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	149,250.0 2			
Status 2	0.0	0	0.0	2	405,409.7 6			
Status 3	379.1	< 1	0.0	0	728,714.4 14			
Status 4	5,386,078.7	78	4,244.8	< 1	5,400,605.6 78			
Total	5,386,457.8	78	4,244.9	< 1	6,683,979.7 100			

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):

### Summer Model:

Habitat Description: Nothorn Parula are primarily a riparian species (Moldenhauer and Regelski 1996). In the Coastal Plain and Piedmont, breeds mainly in swamps and bottomland forests; in the mountains, favors hemlock or mixed hemlock-hardwood forests, but also occurs in other woods (Hamel 1992). Prefers mature forest but also occurs in young deciduous woods (see Bushman and Therres 1988). Favors woods with a very dense understory of saplings and shrubs near slow or non-flowing water; canopy may range from poorly developed to mainly closed (see Bushman and Therres 1988). Commonly nests in swamps (Fussell 1994), ravines (Nicholson 1997) and damp lowland woods (Pearson 1959), especially in trees that border streams (Alsop 1991). May also be found in dry habitats such as orchards and parks, so long as there is an abundance of Spanish moss or old man's beard present (Griscom and Sprunt 1957, Fussell 1994).

The nest can be placed 6 -100 feet above the ground in coniferous and hardwood trees, usually in a clump of old man's beard or Spanish moss (Griscom and Sprunt 1957). In areas with few lichens, the nest may be built in a clump of hemlock or spruce needles, with lichens added to it (Curson et al. 1994). The nest may also be built in clumps of deciduous leaves (Nicholson 1997) or into rubbish accumulated by flooding in branches over-hanging a stream (Ehrlich et al. 1988). Inside of nest lined with moss or lichen fibers, hair, fine grass, pine needles or plant down (Bent 1953). A hole leading through the moss is usually located at the level of the nest bowl. Occasionally two holes are used. Where epiphytes are absent, other materials are used (Petrides 1942, Hall 1983). Amy Silvano 6jun05

\*\*\*Quoted from compiled notes.

Ecosystem Classifiers: Mixed (non-cp), Mesic, Montane, Cove, Maritime, Forested Wetlands, Tidal wooded swamps, and then Floodplain/Riparian systems within the Piedmont and CP. Amy Silvano 6jun05

### Hydrography Mask:

Utilizes flowing water features with buffer of 4000m from selected water features.

Utilizes open water features with buffer of 4000m from selected water features.

Contiguous Wet Vegetation Set (mesic) buffers of 60m from and unlimited into selected vegetation features.

### Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Deciduous Plantations
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Northern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	Atlantic Coastal Plain Southern Tidal Wooded Swamp
Brackish Tidal Marsh & Wetland	East Gulf Coastal Plain Tidal Wooded Swamp
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Northern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	East Gulf Coastal Plain Maritime Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Northern Mesic Hardwood Forest
Forest/Woodland	East Gulf Coastal Plain Southern Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Southern Mesic Slope Forest
Forest/Woodland	Mississippi Delta Maritime Forest
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	South-Central Interior Mesophytic Forest
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern Appalachian Montane Pine Forest and Woodland
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier

Forest/Woodland	Southern Piedmont Mesic Forest
Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Taxodium/Nyssa Modifier
Wetlands	Atlantic Coastal Plain Nonriverine Swamp and Wet Hardwood Forest - Oak Dominated Modifier
Wetlands	Atlantic Coastal Plain Northern Basin Peat Swamp
Wetlands	Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier
Wetlands	East Gulf Coastal Plain Small Stream and River Floodplain Forest
Wetlands	Lower Mississippi River Bottomland and Floodplain Forest
Wetlands	Lower Mississippi River Bottomland Depressions - Forest Modifier
Wetlands	Mississippi River Low Floodplain (Bottomland) Forest
Wetlands	Mississippi River Riparian Forest
Wetlands	South Florida Cypress Dome
Wetlands	South Florida Hardwood Hammock
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Coastal Plain Hydric Hammock
Wetlands	Southern Coastal Plain Nonriverine Cypress Dome
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest

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