



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Blue-winged Warbler

*Vermivora pinus*

Taxa: Avian

Order: Passeriformes

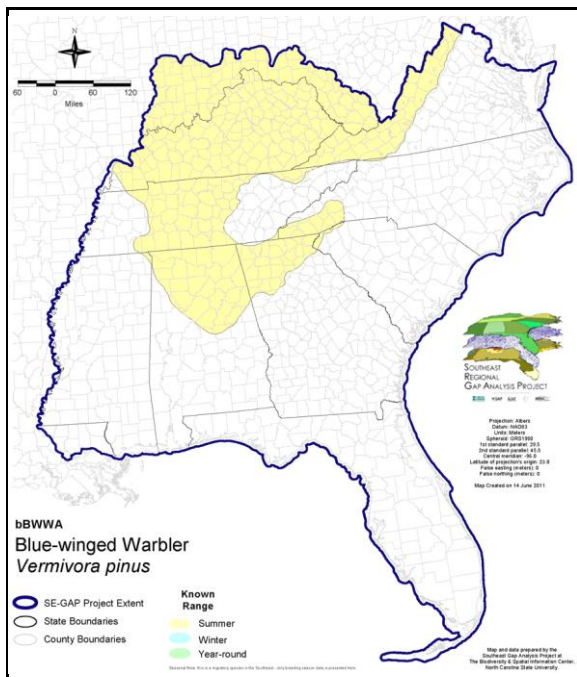
Family: Parulidae

SE-GAP Spp Code: **bBWWA**

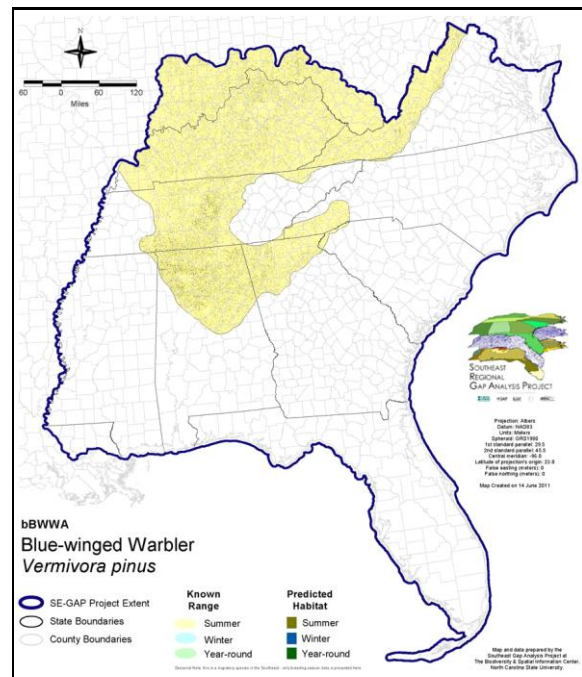
ITIS Species Code: 178853

NatureServe Element Code: ABPBX01020

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bBWWA\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bBWWA_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AR (W), KY (N), ME (SC), NC (SR), NC (SR), NJ (INC/S), NY (PB), RI (Not Listed), UT (None), WI (SC/M), WI (SC/M), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AL (S3B), AR (S3B,S5N), AZ (SNA), CO (SNA), CT (S5B), CT (S5B), DC (S3N), DE (S1B), FL (SNA), GA (S4), IA (S3B,S4N), IL (S4), IN (S4B), KS (S1?B), KS (S1?B), KY (S4S5B), LA (SNA), MA (S3S4B), MD (S4B), ME (S1B), MI (S5), MN (SNRB), MO (SNRB), MS (SNA), MS (SNA), MT (SNA), NC (S2B), NC (S2B), NE (SNRN), NH (S4B), NJ (S4B), NM (SNA), NY (S5), OH (S5), OK (S1B), PA (S4B), RI (S5B), SC (SNA), SD (SNA), TN (S4), TX (S4), UT (SNA), VA (S3B), VT (S2S3B), VT (S2S3B), WA (SNA), WI (S4B), WI (S4B), WV (S4B), AB (SNA), LB (SNA), MB (SNA), NB (SNA), NF (SNA), NS (SNA), ON (S4B), PE (SNA), QC (S2B), 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	1,966.0	< 1	155.2	< 1	0.0	0	0.0	0
Status 2	1,142.6	< 1	5,742.0	< 1	0.0	0	0.0	0
Status 3	140.7	< 1	35,934.6	2	6,120.5	< 1	12,388.2	< 1
Status 4	4.1	< 1	0.0	0	0.0	0	0.0	0
Total	3,253.3	< 1	41,831.7	2	6,120.5	< 1	12,388.2	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	287.2	< 1	0.0	0	0.0	0
Status 2	0.0	0	240.7	< 1	0.0	0	0.0	0
Status 3	0.0	0	2,266.6	< 1	0.0	0	118.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	2,794.4	< 1	0.0	0	118.4	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	70.3	< 1	5.4	< 1	0.0	0
Status 2	0.0	0	338.8	< 1	15,872.9	< 1	24.7	< 1
Status 3	4.8	< 1	3,502.2	< 1	6,266.3	< 1	538.5	< 1
Status 4	0.0	0	0.0	0	4,096.1	< 1	0.0	0
Total	4.8	< 1	3,911.2	< 1	26,240.6	1	563.1	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	617.7	< 1	0.0	0	0.0	0
Status 2	0.0	0	1,265.0	< 1	1.3	< 1	164.3	< 1
Status 3	0.0	0	321.9	< 1	481.2	< 1	0.0	0
Status 4	0.0	0	0.0	0	75.8	< 1	0.0	0
Total	0.0	0	2,204.6	< 1	558.3	< 1	164.3	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	3,101.7	< 1		
Status 2	0.0	0	0.0	0	24,792.0	1		
Status 3	0.0	0	0.0	0	68,083.7	5		
Status 4	2,159,079.0	94	7,450.7	< 1	2,174,797.6	94		
Total	2,159,079.0	94	7,450.7	< 1	2,270,775.1	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: Blue-winged warblers are typically found in early successional habitats in moist areas (Palmer-Ball 1996) at lower to mid-elevations. They prefer tall trees and saplings of 6 to 8 feet scattered throughout their habitat (Anderson et al. 1981). These warblers are found according to Simpson (1994) in 'overgrown old fields, brushy meadows, shrubby streambanks, early to medium second-growth deciduous stands, power line right-of-ways, and disturbed forest openings.' Dunn and Garrett (1997) state the common factor found in the breeding habitat of all Blue-winged warblers is 'abundant undergrowth of shrubs, herbs, and weeds. Gill et al. (2001), Palmer-Ball (1996), and Anderson et al. (1981) all describe breeding habitat of the blue-winged warbler as either disturbed forests or forest or woodland edges. Harrison (1975) reports that although the Blue-winged range overlaps that of the Golden-winged, the Blue-winged 'tends to choose moister habitats.' Amy Silvano 6jun05

Ecosystem Classifiers: Mixed, & Hardwood Forests, Glade woodlands only, Disturbed, Plantations, Ag, Forested Swamps, Shrub/scrub, Depressional (shrubland or forested), Riparian. Amy silvano 6jun05

\*\*\* Some sections quoted directly from NC-GAP compiled notes

Elevation Mask: < 983m

Mask of Forest/Open Ecotone: Include within 15m of ecotone edge.

Mask of Woodlands and Shrublands: Include all woodland and shrubland interiors and 15m buffer from them.

### Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Deciduous Plantations
Anthropogenic	Pasture/Hay
Anthropogenic	Successional Shrub/Scrub (Clear Cut)
Anthropogenic	Successional Shrub/Scrub (Other)
Anthropogenic	Successional Shrub/Scrub (Utility Swath)
Forest/Woodland	Alabama Ketona Glade and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central Appalachian Alkaline Glade and Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	South-Central Interior Mesophytic Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest
Forest/Woodland	Southern Interior Low Plateau Dry-Mesic Oak Forest - Evergreen Modifier
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Hardwood Modifier
Forest/Woodland	Southern Piedmont Dry Oak-(Pine) Forest - Mixed Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Hardwood Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Mixed Modifier
Forest/Woodland	Southern Piedmont Dry Oak-Heath Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Southern Piedmont Mafic Hardpan Woodland
Forest/Woodland	Southern Piedmont Mesic Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Floodplain - Herbaceous Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier

Wetlands	Central Appalachian Riparian - Herbaceous Modifier
Wetlands	Central Interior Highlands and Appalachian Sinkhole and Depression Pond
Wetlands	North-Central Appalachian Acidic Swamp
Wetlands	North-Central Appalachian Seepage Fen
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Large Floodplain - Herbaceous Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern and Central Appalachian Bog and Fen
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Large Floodplain Forest - Herbaceous Modifier
Wetlands	Southern Piedmont Seepage Wetland
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest
Wetlands	Southern Piedmont/Ridge and Valley Upland Depression Swamp
Wetlands	Western Highland Rim Seepage Fen

**CITATIONS:**

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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.