



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Red-headed Woodpecker

Melanerpes erythrocephalus

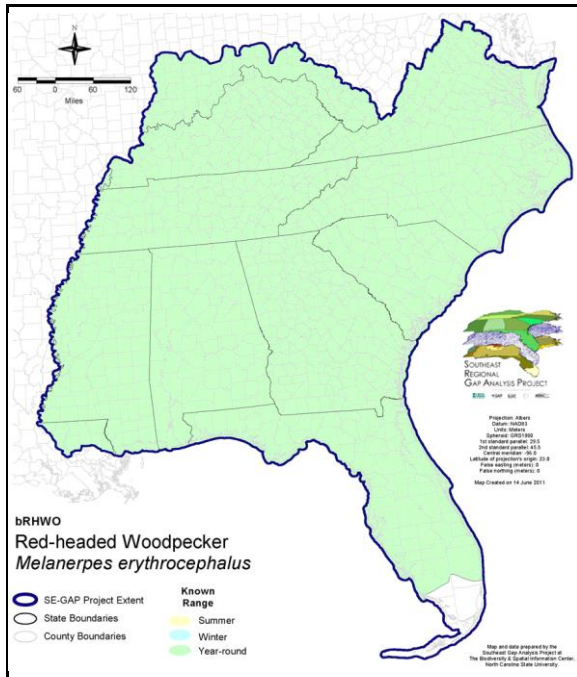
Taxa: Avian
Order: Piciformes
Family: Picidae

SE-GAP Spp Code: **brHWO**

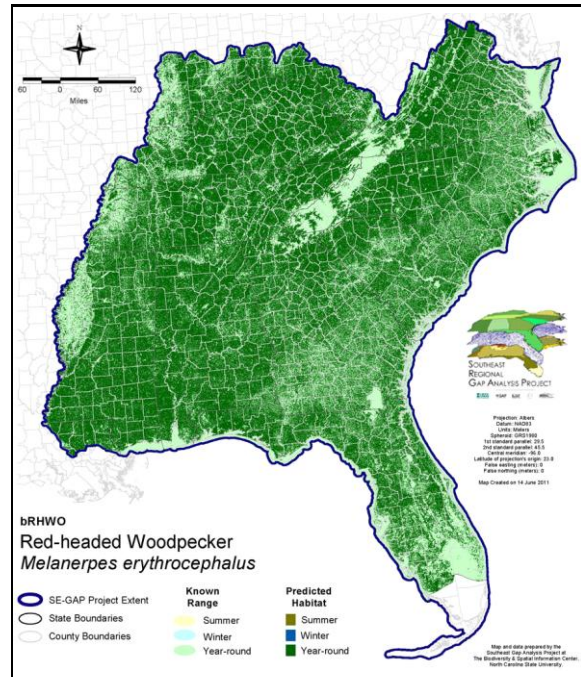
ITIS Species Code: 178186

NatureServe Element Code: ABNYF04040

KNOWN RANGE:



PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_brHWO.pdf

Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_brHWO.pdf

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/brHWO_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AR (W), CT (E), DE (E), ID (P), KY (N), ND (Level II), NJ (T/T), NY (SC), RI (Not Listed), UT (None), WI (SC/M), WI (SC/M), BC (8 (2005)), ON (SC), QC (Susceptible)

NS Global Rank: G5

NS State Rank: AL (S5), AR (S4B,S4S5N), AZ (SNA), CO (S3B), CO (S3B), CT (S1), DC (S1N,SHB), DC (S1N,SHB), DE (S1), FL (SNR), GA (S4), IA (S5B), ID (SNA), IL (S5), IN (S4), KS (S5B), KS (S5B), KY (S4B,S4N), LA (S4), MA (S1B,S2N), MD (S4), ME (SNA), MI (S5), MN (SNRB,SNRN), MO (SNRB,SNRN), MS (S4S5), MT (S3B), NC (S4B,S4N), ND (SNRB), NE (S5), NH (SNA), NJ (S2B,S2N), NM (S3B,S3N), NY (S2?), OH (S5), OK (S4S5), PA (S4B,S4N), RI (S1B,S1N), SC (SNR), SD (S5B), SD (S5B), TN (S4), TX (S3B), UT (SNA), VA (S4B), VT (S1S2B), VT (S1S2B), WI (S3B), WI (S3B), WV (S2B,S3N), WY (S3B), WY (S3B), AB (S1), BC (SNA), LB (SNA), MB (S2B), MB (S2B), NB (SNA), NF (SNA), NS (SNA), ON (S4B), PE (SNA), QC (S1B), SK (S1B,S1M)

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	107,573.2	< 1	12,727.8	< 1	0.0	0	0.0	0
Status 2	215,747.3	< 1	176,052.9	< 1	0.0	0	5,247.0	< 1
Status 3	3,358.9	< 1	1,762,926.2	2	77,746.0	< 1	715,757.8	< 1
Status 4	84.2	< 1	< 0.1	< 1	0.0	0	143.4	< 1
Total	326,763.5	< 1	1,951,707.0	3	77,746.0	< 1	721,148.1	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	69,816.1	< 1	33.1	< 1	11,091.8	< 1
Status 2	0.0	0	12,219.0	< 1	7,474.0	< 1	67.4	< 1
Status 3	65,376.4	< 1	129,509.7	< 1	0.0	0	6,173.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	65,376.4	< 1	211,544.8	< 1	7,507.1	< 1	17,332.4	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,576.8	< 1	77.6	< 1	0.0	0
Status 2	0.0	0	9,686.1	< 1	657,469.3	< 1	1,037.8	< 1
Status 3	13,420.4	< 1	547,929.6	< 1	231,879.8	< 1	370,427.8	< 1
Status 4	0.0	0	< 0.1	< 1	111,539.3	< 1	48.9	< 1
Total	13,420.4	< 1	559,192.6	< 1	1,000,966.0	1	371,514.4	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	11,873.1	< 1	0.0	0	0.0	0
Status 2	12,614.9	< 1	77,797.8	< 1	6.8	< 1	3,574.4	< 1
Status 3	0.0	0	24,887.1	< 1	30,022.2	< 1	138,261.8	< 1
Status 4	0.0	0	1.0	< 1	4,165.6	< 1	< 0.1	< 1
Total	12,614.9	< 1	114,558.9	< 1	34,194.6	< 1	141,836.3	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	214,769.4	< 1		
Status 2	0.0	0	0.0	0	1,178,994.6	2		
Status 3	709.3	< 1	1.1	< 1	4,118,387.1	8		
Status 4	70,237,603.8	90	50,068.0	< 1	70,515,109.5	91		
Total	70,238,313.1	90	50,069.1	< 1	76,027,260.7	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):

Year-round Model:

Habitat Description: Found in open areas with scattered large trees and sparse ground cover, such as woodland edges, mature bottomland hardwood forests (Nicholson 1997), forest clearings, orchards, open pine woods, residential areas (Kaufman 1996), old burned areas (Ehrlich et al. 1988) and upland meadow or short-grass areas, such as pastures around farms or residential zones such as golf courses (Smith et al. 2000). Reported to breed in open swamps (Hamel 1992). Especially use open woods with beech or oak, open situations with scattered trees, and also parks, cultivated areas and gardens (AOU 1983). Breeds across the North Carolina except in the high elevations of the mountains (Potter et al. 1980) and the barrier islands (Fussell and Lyons 1990). Red-headed woodpeckers breed throughout Georgia in deciduous, coniferous, and mixed forests. They often are seen in open pine or oak woods, or in oak-beech woods. Other habitats include parks, golf courses, and residential areas (GA). In Florida they additionally use pine flatwoods and live oak hammocks (Layne et al. 1977).

Nest cavity is located from 8 to 80 feet above the ground, and is usually excavated in a dead tree without bark or in the dead limb of a live tree. They will also use a natural cavity or old telephone poles. However if the poles are coated with creosote, eggs or young will die. Forages by gleaning bark and foliage, and by hawking insects (Ehrlich et al. 1988).

In northcentral Florida, the average size of breeding territories during 1985 and 1986 was 5.7 ha (n=3 pairs) (Venables and Collopy 1989).

- K. Cook, 17Feb05

Additional information:

When 50% of oak trees were removed for prairie restoration on a 3.2-ha reserve in Ohio, red-heads began to nest in the area (The Nature Conservancy 2000). Red-heads may require forest fragment size of greater than 2 ha. "Those nesting in fragments >2.0 ha did not use smaller fragments (<2.0 ha) near larger fragments (Gutzwiller and Anderson 1987)." - Smith et al. 2000 in *The birds of North America*. K. Cook, 17Feb05

Elevation Mask: < 762m

Mask of Forest/Open Ecotone: Include within 500m of ecotone edge.

Mask of Woodlands and Shrublands: Include all woodland and shrubland interiors and 500m buffer from them.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Developed Open Space
Anthropogenic	Low Intensity Developed
Anthropogenic	Pasture/Hay
Anthropogenic	Successional Grassland/Herbaceous
Anthropogenic	Successional Grassland/Herbaceous (Other)
Anthropogenic	Successional Grassland/Herbaceous (Utility Swath)
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	Allegheny-Cumberland Dry Oak Forest and Woodland - Pine Modifier
Forest/Woodland	Appalachian Shale Barrens
Forest/Woodland	Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest
Forest/Woodland	Atlantic Coastal Plain Fall-Line Sandhills Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Open Understory Modifier
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Scrub/Shrub Understory Modifier
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest

Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath Forest
Forest/Woodland	Atlantic Coastal Plain Upland Longleaf Pine Woodland
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	Central Appalachian Pine-Oak Rocky Woodland
Forest/Woodland	Central Interior Highlands Calcareous Glade and Barrens
Forest/Woodland	Central Interior Highlands Dry Acidic Glade and Barrens
Forest/Woodland	Cumberland Sandstone Glade and Barrens
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Mixed Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Shortleaf Pine-Oak Forest - Pine Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Loblolly Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Offsite Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Open Understory Modifier
Forest/Woodland	East Gulf Coastal Plain Interior Upland Longleaf Pine Woodland - Scrub/Shrub Modifier
Forest/Woodland	East Gulf Coastal Plain Limestone Forest
Forest/Woodland	East Gulf Coastal Plain Northern Dry Upland Hardwood Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Bluff Forest
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Hardwood Modifier
Forest/Woodland	East Gulf Coastal Plain Northern Loess Plain Oak-Hickory Upland - Juniper Modifier
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	Florida Longleaf Pine Sandhill - Open Understory Modifier
Forest/Woodland	Florida Longleaf Pine Sandhill - Scrub/Shrub Understory Modifier
Forest/Woodland	Florida Peninsula Inland Scrub
Forest/Woodland	Nashville Basin Limestone Glade
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier
Forest/Woodland	Northern Atlantic Coastal Plain Dry Hardwood Forest
Forest/Woodland	Ridge and Valley Calcareous Valley Bottom Glade and Woodland
Forest/Woodland	South Florida Pine Rockland
Forest/Woodland	South-Central Interior Mesophytic Forest
Forest/Woodland	Southeastern Interior Longleaf Pine Woodland
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Mafic Glade and Barrens
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Appalachian Low Mountain Pine Forest
Forest/Woodland	Southern Coastal Plain Dry Upland Hardwood Forest
Forest/Woodland	Southern Coastal Plain Oak Dome and Hammock
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 - Loblolly Pine 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 Glade and Barrens
Forest/Woodland	Southern Piedmont Mafic Hardpan Woodland
Forest/Woodland	Southern Piedmont Mesic Forest
Forest/Woodland	Southern Piedmont Northern Triassic Basin Dry Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest

Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Pine Modifier
Wetlands	Atlantic Coastal Plain Blackwater Stream Floodplain Forest - Forest Modifier
Wetlands	Atlantic Coastal Plain Brownwater Stream Floodplain Forest
Wetlands	Atlantic Coastal Plain Clay-Based Carolina Bay Forested Wetland
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 Northern Basin Swamp and Wet Hardwood Forest
Wetlands	Atlantic Coastal Plain Northern Wet Longleaf Pine Savanna and Flatwoods
Wetlands	Atlantic Coastal Plain Peatland Pocosin
Wetlands	Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Southern Wet Pine Savanna and Flatwoods
Wetlands	Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin, and Baygall
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Florida Pine Flatwoods
Wetlands	East Gulf Coastal Plain Jackson Plain Dry Flatwoods - Open Understory Modifier
Wetlands	East Gulf Coastal Plain Jackson Plain Dry Flatwoods - Scrub/Shrub Understory Modifier
Wetlands	East Gulf Coastal Plain Large River Floodplain Forest - Forest Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Offsite Hardwood Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Open Understory Modifier
Wetlands	East Gulf Coastal Plain Near-Coast Pine Flatwoods - Scrub/Shrub Understory Modifier
Wetlands	East Gulf Coastal Plain Northern Seepage Swamp
Wetlands	East Gulf Coastal Plain Small Stream and River Floodplain Forest
Wetlands	East Gulf Coastal Plain Southern Loblolly-Hardwood Flatwoods
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	North-Central Appalachian Acidic Swamp
Wetlands	North-Central Interior and Appalachian Rich Swamp
Wetlands	South Florida Bayhead Swamp
Wetlands	South Florida Cypress Dome
Wetlands	South Florida Dwarf Cypress Savanna
Wetlands	South Florida Hardwood Hammock
Wetlands	South Florida Pine Flatwoods
Wetlands	South Florida Pond-Apple/Popash Slough
Wetlands	South Florida Willow Head
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	South-Central Interior/Upper Coastal Plain Wet Flatwoods
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Coastal Plain Hydric Hammock
Wetlands	Southern Coastal Plain Nonriverine Basin Swamp
Wetlands	Southern Coastal Plain Nonriverine Cypress Dome
Wetlands	Southern Coastal Plain Seepage Swamp and Baygall
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Seepage Wetland
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest
Wetlands	Southern Piedmont/Ridge and Valley Upland Depression Swamp

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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