



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Yellow-billed Cuckoo

Coccyzus americanus

Taxa: Avian

Order: Cuculiformes

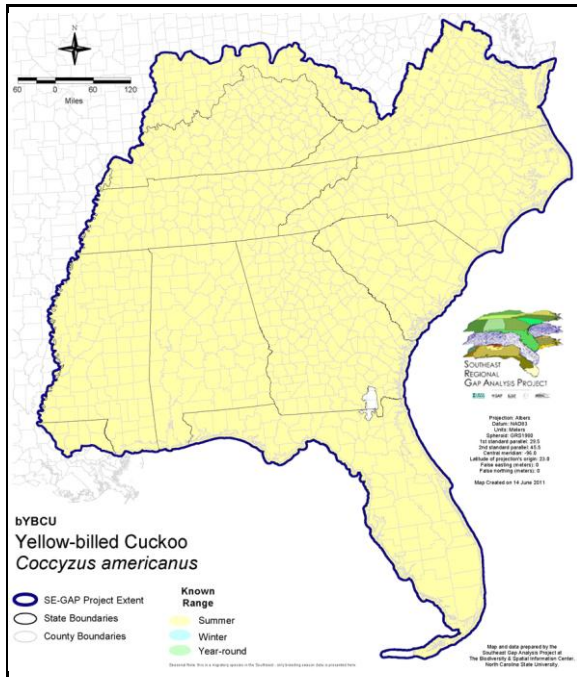
Family: Cuculidae

SE-GAP Spp Code: **bYBCU**

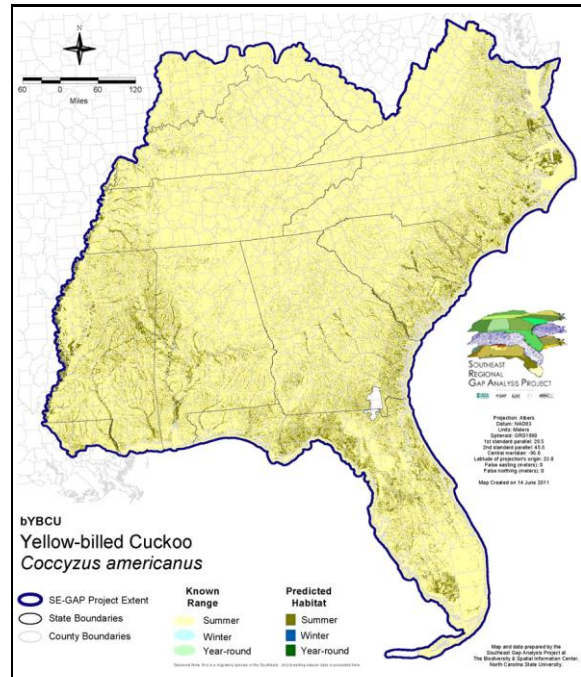
ITIS Species Code: 177831

NatureServe Element Code: ABNRB02020

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/bYBCU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AZ (WSC), ID (P), ID (P), KY (N), ME (SC), NJ (S/S), NV (YES), NY (PB), OR (SC), RI (Not Listed), UT (S-ESA), WA (C), WI (SC/M), WI (SC/M), BC (0.2 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (SNA), AL (S5B), AR (S4B), AZ (S3), CA (SNRB), CO (S3B), CO (S3B), CT (S5B), CT (S5B), DC (S2B,S3N), DE (S4B), FL (SNRB), GA (S5), IA (S3B), ID (S2B), ID (S2B), IL (S5), IN (S4B), KS (S5B), KY (S5B), LA (S5B), MA (S4B,S4N), MD (S5B), ME (S3?B), MI (S5), MN (SNRB), MO (SNRB), MS (S5B), MS (S5B), MT (S3B), NC (S5B), NC (S5B), ND (SU), NE (S5), NH (SNA), NJ (S5B), NM (S3B,S3N), NV (S1B), NY (S5), OH (S5), OK (S5B), OR (SHB), PA (S5B), RI (S5B,S5N), SC (S4), SD (S3B), SD (S3B), TN (S4S5), TX (S4S5B), UT (S1B), VA (S5B), VT (S4B), VT (S4B), WA (SH), WI (S3B), WI (S3B), WV (S5B), WY (S1), WY (S1), AB (SNA), BC (SXB), LB (SNA), MB (SNA), NB (SNA), NF (SNA), NS (SNA), ON (S4B), PE (SNA), QC (S4B), 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	85,543.7	< 1	6,706.6	< 1	0.0	0	0.0	0
Status 2	182,163.9	1	39,724.2	< 1	0.0	0	2,617.5	< 1
Status 3	1,855.9	< 1	382,745.8	3	26,349.8	< 1	151,772.9	< 1
Status 4	37.7	< 1	0.0	0	0.0	0	16.1	< 1
Total	269,601.2	2	429,176.6	3	26,349.8	< 1	154,406.5	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	34,890.5	< 1	66.6	< 1	9,540.4	< 1
Status 2	0.0	0	6,106.9	< 1	4,936.7	< 1	10.7	< 1
Status 3	19,354.8	< 1	141,173.5	< 1	0.0	0	1,118.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	19,354.8	< 1	182,170.8	1	5,003.3	< 1	10,669.8	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	217.4	< 1	11.3	< 1	0.0	0
Status 2	0.0	0	2,020.5	< 1	332,902.1	2	27.3	< 1
Status 3	3,214.6	< 1	318,545.5	2	117,907.8	< 1	134,374.1	< 1
Status 4	0.0	0	< 0.1	< 1	14,835.7	< 1	7.9	< 1
Total	3,214.6	< 1	320,783.5	2	465,656.9	3	134,409.3	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	2,093.8	< 1	0.0	0	0.0	0
Status 2	12,044.9	< 1	44,907.2	< 1	3.9	< 1	1,172.3	< 1
Status 3	0.0	0	11,301.8	< 1	6,775.5	< 1	65,095.4	< 1
Status 4	0.0	0	0.0	0	1,129.1	< 1	0.0	0
Total	12,044.9	< 1	58,302.8	< 1	7,908.5	< 1	66,267.6	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	139,070.3	< 1		
Status 2	0.0	0	0.0	< 1	628,638.0	4		
Status 3	457.5	< 1	< 0.1	< 1	1,382,043.6	12		
Status 4	12,643,866.6	83	15,222.1	< 1	12,689,913.3	83		
Total	12,644,324.1	83	15,222.3	< 1	14,839,665.3	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: Yellow-billed cuckoos breed in open areas with shrubby growth, such as occur in open deciduous woods with dense undergrowth, forest and marsh edges, thickets, densely vegetated late successional areas (Kaufman 1996). They especially use bottomland forests and generally avoid coniferous woods.(Hamel 1992). Roadsides are also used and overgrown orchards, overgrown fields with stands of small trees (Harrison 1975), and especially in damp areas (Fussell 1994) or in riparian zones (Simpson 1992). They also use hardwood swamps, cypress swamps, live oak hammocks (Layne et al. 1977). They are especially abundant in Abundant in mature oak, gum, and cypress stands in the southeast (Dickson et al 1980).

****However Robertson and Kushlan (1984) report that they do use pine forest, unclear if this is during breeding.

Breeding often coincides with the appearance of massive numbers of cicadas, caterpillars, or other large insects (Ehrlich et al. 1992). They are facultative nest parasites.

Nests that are built are usually placed in a shrub, vine, or tree up to 20 feet (but usually 1-3 m) above ground (Harrison 1975) on a horizontal limb (Nicholson 1997).

Subspecies OCCIDENTALIS requires patches of at least 25 acres of dense riparian forest with a canopy cover of at least 50% in both the understory and overstory; nests typically in mature willows (Biosystems Analysis 1989).

Quoted directly from existing state habitat notes - K. Cook, 17Feb05

Elevation Mask: < 1066m

Hydrography Mask:

Utilizes open water features with buffer of 120m from selected water features.

Utilizes wet vegetation features with buffers of 120m from and unlimited into selected vegetation features.

Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Deciduous Plantations
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 Hemlock-Hardwood Forest
Forest/Woodland	Appalachian Serpentine Woodland
Forest/Woodland	Appalachian Shale Barrens
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Northern Maritime Forest
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath Forest
Forest/Woodland	Atlantic Coastal Plain Southern Maritime 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 Limestone Forest

Forest/Woodland	East Gulf Coastal Plain Maritime 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	Mississippi Delta Maritime Forest
Forest/Woodland	Nashville Basin Limestone Glade
Forest/Woodland	Northeastern Interior Dry Oak Forest - Mixed 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-Central Interior Mesophytic Forest
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock
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 - 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
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 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 Peatland Pocosin
Wetlands	Atlantic Coastal Plain Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Streamhead Seepage Swamp, Pocosin, and Baygall
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Interior Highlands and Appalachian Sinkhole and Depression Pond
Wetlands	East Gulf Coastal Plain Interior Shrub Bog
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 - 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 Appalachian Seepage Fen
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 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 and Central Appalachian Bog and Fen
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.

Banks, R. C. 1988. Geographic variation in the yellow-billed cuckoo. *Condor* 90:473-477.

Bent, A. C. 1940. Life histories of North American cuckoos, goatsuckers, hummingbirds, and their allies. Part I. U.S. Nat. Mus. Bull. 176. 244 pp., 36 pls.

Biosystems Analysis, Inc. 1989. Endangered Species Alert Program Manual:Species Accounts and Procedures. Southern California Edison Environmental Affairs Division.

Brown, B. and M. Koenen. 1999. Yellow-billed cuckoo (*Coccyzus Americanus*). In *Wings of the Americas Species Information and Management Abstracts*. The Nature Conservancy. Version 11/19/99

California Department of Fish and Game. 1990. 1989 annual report on the status of California's state listed threatened and endangered plants and animals. 188 pp.

Carter, M., G. Fenwick, C. Hunter, D. Pashley, D. Petit, J. Price, and J. Trapp. 1996. Watchlist 1996:For the future. *Field Notes* 50(3):238-240.

Dickson, J.G., R.N. Conner and J.H. Williamson. 1980. Relative abundance of breeding birds in forest stands in the southeast. *South J. Appl. For.* 4:174-179.

Droege, S., and J.R. Sauer. 1990. North American Breeding Bird Survey, annual summary, 1989. U.S. Fish and Wildlife Service, Biological Report 90(8). 22 pp.

Ehrlich, P.R., D.S. Dobkin, and D. Wheye. 1988. *The birder's handbook:a field guide to the natural history of North American birds*. Simon and Shuster, Inc., New York. xxx + 785 pp.

Ehrlich, P.R., D.S. Dobkin, and D. Wheye. 1992. *Birds in jeopardy:the imperiled and extinct birds of the United States and Canada, including Hawaii and Puerto Rico*. Stanford University Press, Stanford, California. 259 pp.

Fussell, J.O. III. 1994. *A birder's guide to coastal North Carolina*. Chapel Hill and London: The University of North Carolina Press.

Hagan, J.M., III, and D.W. Johnston, editors. 1992. *Ecology and conservation of neotropical migrant landbirds*. Smithsonian Institution Press, Washington, D.C. xiii + 609 pp.

- Hamel, P. B. 1992. The land manager's guide to the birds of the south. The Nature Conservancy, Chapel Hill, North Carolina. 367 pp + several appendices.
- Harrison, H.H. 1975. A field guide to bird's nests in the U.S. east of the Mississippi River. Houghton Mifflin Company, Boston, Massachusetts. 257 p.
- Harrison, H.H. 1979. A field guide to western birds' nests. Houghton Mifflin Company, Boston. 279 pp.
- Hughes, J.M. 1999. Yellow-billed cuckoo (*Coccyzus americanus*). In A. Poole and F. Gill, eds., *The Birds of North America*, No. 418. The Academy of Natural Sciences, Philadelphia and The American Ornithologists' Union, Washington, DC.
- Hunter, W. C., R. D. Ohmart, and B. W. Anderson. 1988. Use of exotic saltcedar (*TAMARIX CHINENSIS*) by birds in arid riparian systems. *Condor* 90:113-123.
- Kaufman K. 1996. *Lives of North American Birds*. Boston, New York: Houghton Mifflin Company.
- Kepler, C. B., and A. K. Kepler. 1978. Status and nesting of the yellow-billed cuckoo in Puerto Rico. *Auk* 95:417-419.
- Lack, D. 1976. *Island biology illustrated by the land birds of Jamaica*. Studies in Ecology, Vol. 3. Univ. California Press, Berkeley. 445 pp.
- Layne, J.N.; Stallcup, J.A.; Woolfenden, G.E.; McCauley, M.N.; Worley, D.J. 1977. *Fish and Wildlife Inventory of the Seven-County Region Included in the Central Florida Phosphate Industry Area-Wide Environmental Impact Study*. Volumes I and II. Also available.
- Nicholson CP. 1997. *Atlas of the breeding birds of Tennessee*. Knoxville: University of Tennessee Press.
- Potter, E. F., J. F. Parnell, and R. P. Teulings. 1980. *Birds of the Carolinas*. Univ. North Carolina Press, Chapel Hill. 408 pp.
- Raffaele, H.A. 1983. *A guide to the birds of Puerto Rico and the Virgin Islands*. Fondo Educativo Interamericano, San Juan, Puerto Rico. 255 pp.
- Robertson, W. B. Jr. and J. A. Kushlan. 1984. *The Southern Florida Avifauna*. *Environments of South Florida Present and Past II*. P. J. Gleason ed. Coral Gables, Florida: Miami Geological Society; pp. 219-257. 551 pages.
- Sauer, J.R., and S. Droege. 1992. Geographical patterns in population trends of neotropical migrants in North America. Pages 26-42 in J.M. Hagan III and D.W. Johnston, editors. *Ecology and conservation of neotropical migrant landbirds*. Smithsonian Institution.
- Sauer, J.R., J.E. Hines, G. Gough, I. Thomas, and B.G. Peterjohn. 1997. *The North American Breeding Bird Survey Results and Analysis*. Version 96.3. Patuxent Wildlife Research Center, Laurel, MD.
- Simpson MB Jr. 1992. *Birds of the Blue Ridge Mountains*. Chapel Hill and London: University of North Carolina Press.
- Stiles, F.G., and A.F. Skutch. 1989. *A guide to the birds of Costa Rica*. Comstock Publ. Associates, Cornell University Press, Ithaca, New York. 511 pp.
- Terres, J.K. 1980. *The Audubon Society encyclopedia of North American birds*. Alfred A. Knopf, New York.

For more information:: SE-GAP Analysis Project / BaSIC
 127 David Clark Labs
 Dept. of Biology, NCSU
 Raleigh, NC 27695-7617
 (919) 513-2853
www.basic.ncsu.edu/segap

Compiled: 15 September 2011

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