

SOUTHEAST GAP ANALYSIS PROJECT

Species Modeling Report

Painted Bunting

Passerina ciris

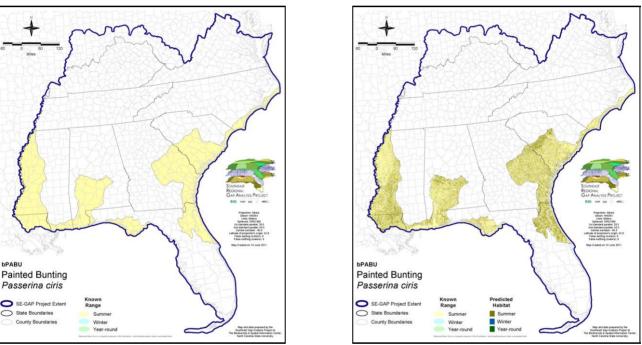
Taxa: Avian

- Order: Passeriformes
- Family: Cardinalidae

KNOWN RANGE:

SE-GAP Spp Code: **bPABU** ITIS Species Code: 179156 NatureServe Element Code: ABPBX64060

PREDICTED HABITAT:



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

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

 GAP Online Tool Link:
 http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=bPABU

 Data Download:
 http://www.basic.ncsu.edu/segap/datazip/region/vert/bPABU_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: AR (W), NV (YES), NY (PB), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AL (S2B), AL (S2B), AR (S4B), AZ (S2S3M), CA (SNA), CO (SNA), DE (SNA), FL (S3), GA (S3), IL (SNA), IN (SNA), KS (S3B), LA (S5B), MD (SNA), ME (SNA), MI (SNA), MO (S3), MS (S3S4B), MS (S3S4B), MT (SNA), NC (S3B), NC (S3B), NE (SNA), NM (S4B,S4N), NV (SNA), NY (SNA), OK (S5B), OR (SNA), PA (SNA), SC (SNRB), TN (S2), TX (S4B), VA (SNA), WI (SNA), WV (SNA), WY (SNA), AB (SNA), NB (SNA), NS (SNA), ON (SNA), QC (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	9,615.9	< 1	132.4	< 1	0.0	0	0.0	C
Status 2	10,104.7	< 1	1,213.2	< 1	0.0	0	0.0	C
Status 3	0.0	0	22,737.1	< 1	0.0	0	69,702.7	1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	19,720.5	< 1	24,082.7	< 1	0.0	0	69,702.7	1
1	US Dept. of	Energy	US Nat. Park	Service		NOAA	Other Federa	l Lands
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,161.8	< 1	92.7	< 1	2,396.3	< 1
Status 2	0.0	0	9,156.6	< 1	6,004.7	< 1	7.6	< 1
Status 3	17,923.1	< 1	3,112.8	< 1	0.0	0	1,079.2	< 1
Status 4	0.0	0	1.0	2	0.0	0	0.0	0
Total	17,923.1	< 1	13,432.6	< 1	6,097.4	< 1	3,483.0	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10.5	< 1	0.0	0	0.0	0
Status 2	0.0	0	385.2	< 1	34,627.4	< 1	0.0	0
Status 3	3.4	< 1	40,643.6	< 1	5,057.4	< 1	35,955.8	< 1
Status 4	0.0	0	0.0	0	2,449.2	< 1	0.0	0
Total	3.4	< 1	41,039.4	< 1	42,134.0	< 1	35,955.8	< 1
1	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	736.2	< 1	0.0	0	0.0	0
Status 2	2,045.8	< 1	6,077.1	< 1	0.0	0	456.0	< 1
Status 3	0.0	0	1,250.4	< 1	11,588.6	< 1	12,005.6	< 1
Status 4	0.0	0	0.0	0	230.4	< 1	0.0	0
Total	2,045.8	< 1	8,063.6	< 1	11,819.0	< 1	12,461.7	< 1
1	Private Land - I	No Res.		Water			Overa	all Total
	ha	%	ha	%			ha	%
Status 1	0.0	0	0.0	0			14,145.8	< 1
Status 2	0.0	0	0.0	3			70,078.4	1
Status 3	22.5	< 1	< 0.1	< 1			221,082.2	5
Status 4	4,387,997.4	93	1,546.8	< 1			4,394,674.4	93
Total	4,388,019.9	93	1,547.1	< 1			4,699,980.7	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:Painted buntings favor partly open situations with scattered brush or trees, riparian scrub-shrub thickets,
weedy and shrubby areas, woodland edges, yards and hedgerows (Hunter 1990, Hamel 1992, NatureServe
2005). Along Atlantic Coast, this bunting is found in scrub communities, and edges of maritime hammocks,
as well as roadside tickets, and fallow fields (Lowther et al 1999). The southeastern coastal population uses
a variety of habitats for breeding (Lanyon and Thompson 1986, Cox 1996, Meyers et al. 1999). While
Meyers et al. (1999) found nesting success to be similar in beach shrub-scrub, managed pine-oak forest,
and old growth oak forest, some forest-nesting individuals traveled up to 800 meters to feed in grassy or
marshy openings, while shrub-scrub birds remained in core areas. Lanyon and Thompson (1986)
determined that salt marsh/forest edge territories were preferred over interior forest, and concluded they
were of higher quality. Amy Silvano 11apr05

Ecosystem Classifiers: Maritime Forest, Antropogenic (Low Urban, Disturbed, Agricultural), Coastal Dune & Freshwater Wetland. Amy Silvano 11apr05

Mask of Forest/Open Ecotone: Include within 250m of ecotone edge. Mask of Woodlands and Shrublands: Include all woodland and shrubland interiors and 250m buffer from them.

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)		
Coastal Dune & Freshwater Wetland	Atlantic and Gulf Coastal Plain Interdunal Wetland		
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Northern Dune and Maritime Grassland		
Coastal Dune & Freshwater Wetland	Atlantic Coastal Plain Southern Dune and Maritime Grassland		
Coastal Dune & Freshwater Wetland	East Gulf Coastal Plain Dune and Coastal Grassland		
Coastal Dune & Freshwater Wetland	Southwest Florida Dune and Coastal Grassland		
Forest/Woodland	Atlantic Coastal Plain Central Maritime Forest		
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 Northern Maritime Forest		
Forest/Woodland	Atlantic Coastal Plain Southern Maritime Forest		
Forest/Woodland	East Gulf Coastal Plain Maritime Forest		
Forest/Woodland	Mississippi Delta Maritime Forest		
Forest/Woodland	Southeast Florida Coastal Strand and Maritime Hammock		
Forest/Woodland	Southern Coastal Plain Oak Dome and Hammock		
Forest/Woodland	Southwest Florida Coastal Strand and Maritime Hammock		
Wetlands	Southern Coastal Plain Hydric Hammock		

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., and M. R. Browning. 1995. Comments on the status of revived old names for some North American birds. Auk 112:633-648.

Bent, A. C. 1968. Life histories of North American cardinals, grosbeaks, buntings, towhees, finches, sparrows, and allies. Bull. U.S. Nat. Mus. 237.

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.

Conner, R.N., J.G. Dickson, J.H. Williamson, and B. Ortego. 2004. Width of forest streamside zones and breeding bird abundance in eastern Texas. Southeastern Naturalist 3(4):669-682.

Cox, J. 1996. Painted bunting. Pages 644-651 R.E. Ashton, ed., Rare and endangered biota of Florida, revised edition. Univ. Press of Florida, Gainesville.

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.

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

Harrison, H.H. 1979. A field guide to western birds' nests. Houghton Mifflin Company, Boston. 279 pp.

Hunter, W. C. 1990. Handbook for nongame bird managment and monitoring in the Southeast Region. U.S. Fish and Wildlife Service, Atlanta, Georgia. 198 pp.

Keast, A., and E. S. Morton. 1980. Migrant birds in the Neotropics; ecology, distribution, and conservation. Smithsonian Inst. Press, Washington, D.C.

Lanyon, S. M., and C. F. Thompson. 1986. Site fidelity and habitat quality as determinants of settlement pattern in male painted buntings. Condor 88:206-210.

Lowther, P.E., S.M. Lanyon, and C.W. Thompson. 1999. Painted bunting (Passerina ciris). In A. Poole and F. Gill, eds., The Birds of North America, No. 398. The Academy of Natural Sciences, Philadelphia and The American Ornithologists' Union, Washington, D

Meyers, J.M., E.G. Springborn, and L.K. Duncan. 1999. Unpublished data.

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.

Rappole, J.H., and D.W. Warner. 1980. Ecological aspects of migrant bird behavior in Veracruz, Mexico. Pages 353-393 in A. Keast and E.S. Morton, editors. Migrant birds in the neotropics:ecology, behavior, distribution, and conservation. Smithsonian Insti

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 Institu

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.

Thompson, C.W. 1991. Is the painted bunting actually two species? Problems determining species limits between allopatric populations. Condor 93:987-1000.

Thompson, C.W. 1991. The sequence of molts and plumages in painted buntings and implications for theories of delayed plumage maturation. Condor 93:209-235.

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		

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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.