



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Kentucky Warbler

*Oporornis formosus*

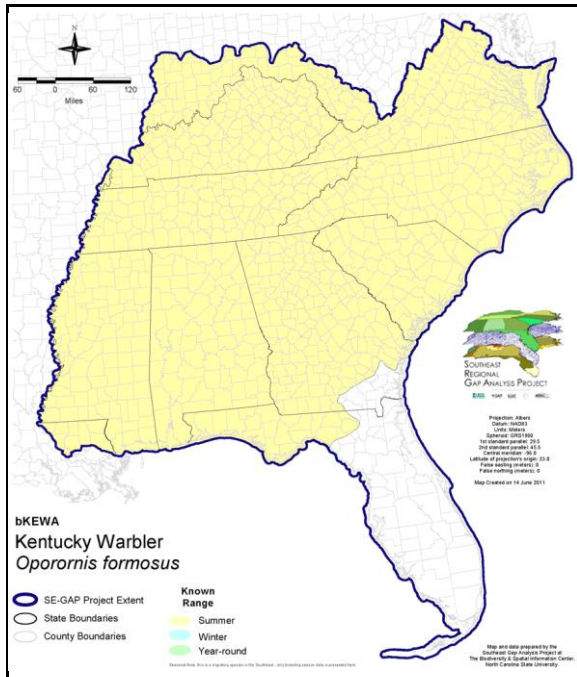
Taxa: Avian  
 Order: Passeriformes  
 Family: Parulidae

SE-GAP Spp Code: **bKEWA**

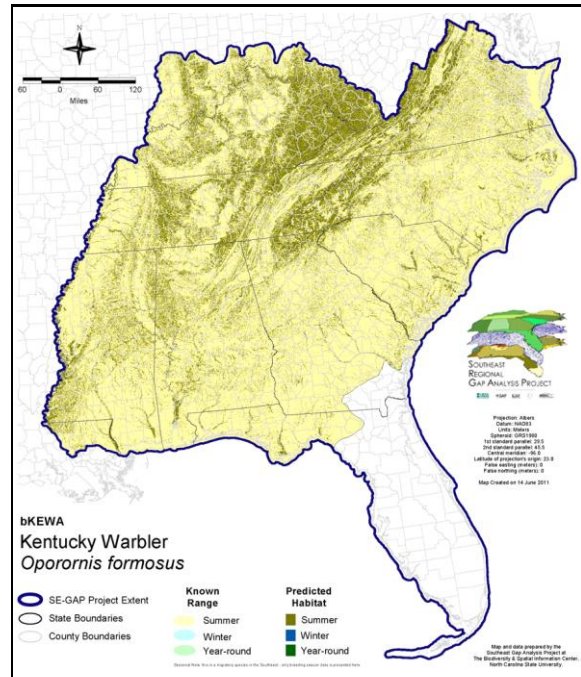
ITIS Species Code: 178937

NatureServe Element Code: ABPBX11010

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bKEWA\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bKEWA_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: KY (N), NJ (SC/SC), NV (YES), NY (PB), RI (Not Listed), UT (None), WI (THR), WI (THR), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (SNA), AL (S4B), AR (S4B), AZ (S1M), CA (SNA), CO (SNA), CT (S3B), CT (S3B), DC (S3S4N), DE (S3B), FL (SNRB), GA (S5), IA (S1B,S3N), IL (S5), IN (S4B), KS (S3B), KY (S5B), LA (S4B), MA (S2N), MD (S4B), ME (SNA), MI (SNRN), MN (SNA), MO (S4), MS (S5B), MS (S5B), MT (SNA), NC (S4B), NC (S4B), NE (S3), NH (SNA), NJ (S3B,S3N), NM (SNA), NV (SNA), NY (S2), OH (S5), OK (S4B), PA (S4B), RI (SNA), SC (S4), TN (S4), TX (S3B), UT (SNA), VA (S5), WA (SNA), WI (S1S2B), WI (S1S2B), WV (S4B), WY (SNA), AB (SNA), MB (SNA), NB (SNA), NF (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	44,002.3	< 1	28,866.0	< 1	0.0	0	0.0	0
Status 2	86,771.8	< 1	290,584.9	1	0.0	0	2,308.2	< 1
Status 3	1,901.8	< 1	1,522,461.4	7	24,158.3	< 1	120,943.7	< 1
Status 4	16.9	< 1	0.0	0	0.0	0	0.0	0
Total	132,692.8	< 1	1,841,912.3	8	24,158.3	< 1	123,251.9	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	199,866.1	< 1	0.0	0	0.0	0
Status 2	0.0	0	10,014.3	< 1	1,070.4	< 1	0.0	0
Status 3	17,998.5	< 1	66,563.6	< 1	0.0	0	609.3	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	17,998.5	< 1	276,444.0	1	1,070.4	< 1	609.3	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	924.8	< 1	68.0	< 1	0.0	0
Status 2	0.0	0	14,613.2	< 1	373,391.9	2	1,334.5	< 1
Status 3	16,644.8	< 1	128,926.6	< 1	123,818.2	< 1	31,784.0	< 1
Status 4	0.0	0	0.0	0	37,204.6	< 1	1.1	< 1
Total	16,644.8	< 1	144,464.6	< 1	534,482.6	2	33,119.6	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	10,874.6	< 1	0.0	0	0.0	0
Status 2	5,173.2	< 1	56,875.0	< 1	< 0.1	< 1	843.1	< 1
Status 3	0.0	0	2,188.4	< 1	2,065.1	< 1	14,358.3	< 1
Status 4	0.0	0	2.1	< 1	814.6	< 1	0.0	0
Total	5,173.2	< 1	69,940.1	< 1	2,879.8	< 1	15,201.5	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	284,601.6 1			
Status 2	0.0	0	0.0	0	842,980.6 4			
Status 3	330.1	< 1	0.0	0	2,074,752.2 16			
Status 4	17,467,561.1	78	6,938.9	< 1	17,549,726.9 79			
Total	17,467,891.2	78	6,938.9	< 1	20,752,061.2 100			

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: Kentucky warblers are found on (often north-facing) slopes and in moist ravines of the interior regions of shady upland deciduous or mixed forests (Dunn and Garrett 1997), riparian areas (Alsop 1991) and wet bottomland hardwoods (Potter et al. 1980), especially cove hardwoods (Simpson 1992) and often along streams (Stupka 1963). Habitat always includes shrubs (Potter et al. 1980) such as laurel and rhododendron tangles (Nicholson 1997) and a ground cover of herbaceous vines and plants (Alsop 1991). Prefers large trees with an open overstory (Anderson and Shugart 1974, Robbins, Dawson, and Dowell 1989). Eggs are laid mainly in May-June. Clutch size is 3-6 (usually 4-5). Incubation lasts 12-13 days, by female. Young are tended by both parents, leave nest at 8-10 days (before they can fly), fed by adults for up to 17 days more. Typically one brood, but sometimes two (Harrison 1975) (From NatureServe 2005). 21apr05

\*\*\*\*Habitat compiled from NC-GAP

Ecosystem Classifiers: Mixed, Hardwood, Mesic, Cove, & Montane Forests, Wetland (Wet hardwood swamps of ACP, Floodplain/Riparian (excluding herb modifiers). Amy Silvano 21apr05

Elevation Mask: < 1150m

Contiguous Patch Minimum Size (hectares): 17

### Selected Map Units:

Functional Group	Map Unit Name
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland
Forest/Woodland	Allegheny-Cumberland Dry Oak Forest and Woodland - Hardwood Modifier
Forest/Woodland	Appalachian Hemlock-Hardwood Forest
Forest/Woodland	Atlantic Coastal Plain Dry and Dry-Mesic Oak Forest
Forest/Woodland	Atlantic Coastal Plain Fall-line Sandhills Longleaf Pine Woodland - Offsite Hardwood Modifier
Forest/Woodland	Atlantic Coastal Plain Mesic Hardwood and Mixed Forest
Forest/Woodland	Atlantic Coastal Plain Northern Mixed Oak-Heath 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 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 Upland Longleaf Pine Woodland - Offsite Hardwood 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 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	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	South-Central Interior Mesophytic Forest
Forest/Woodland	Southern and Central Appalachian Cove Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Appalachian Montane Pine Forest and Woodland
Forest/Woodland	Southern Coastal Plain Dry Upland Hardwood Forest
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 Mesic Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
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 Small Blackwater River Floodplain Forest
Wetlands	Atlantic Coastal Plain Small Brownwater River Floodplain Forest
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
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-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Piedmont Large Floodplain Forest - Forest Modifier
Wetlands	Southern Piedmont Small Floodplain and Riparian Forest

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