



# SOUTHEAST GAP ANALYSIS PROJECT



## Species Modeling Report

### Eastern Wood-Pewee

*Contopus virens*

Taxa: Avian

Order: Passeriformes

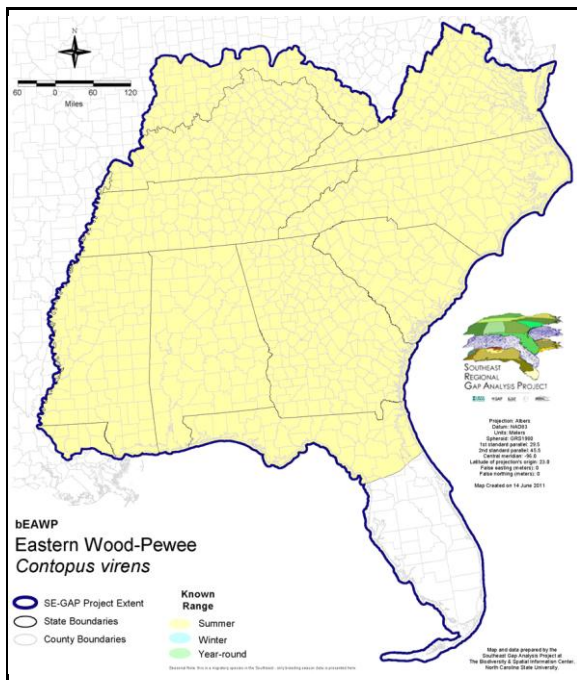
Family: Tyrannidae

SE-GAP Spp Code: **bEAWP**

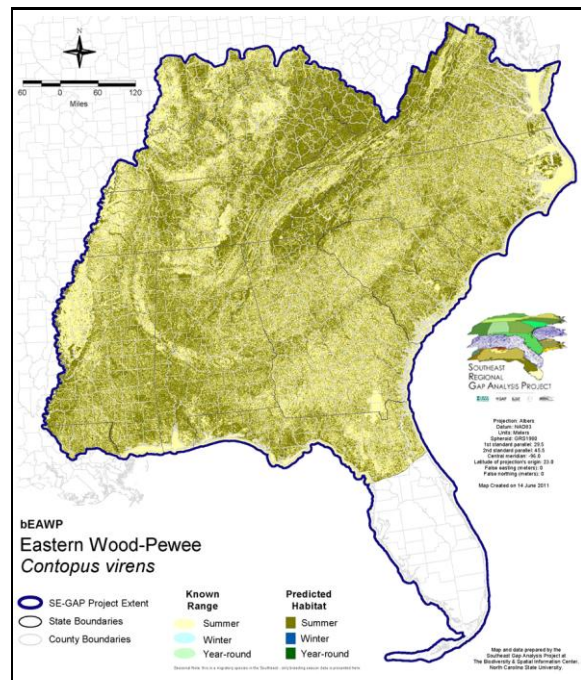
ITIS Species Code: 178359

NatureServe Element Code: ABPAE32060

#### KNOWN RANGE:



#### PREDICTED HABITAT:



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

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

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

Data Download: [http://www.basic.ncsu.edu/segap/datazip/region/vert/bEAWP\\_se00.zip](http://www.basic.ncsu.edu/segap/datazip/region/vert/bEAWP_se00.zip)

#### PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: KY (N), ME (SC), NJ (S/S), NY (PB), RI (Not Listed), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AL (S5B), AR (S4B), AZ (SNA), CO (SNA), CT (S5B), CT (S5B), DE (S5B), FL (SNRB), GA (S5), IA (S4B,S4N), IL (S5), IN (S4B), KS (S5B), KY (S5B), LA (S5B), MA (S5B), MD (S5B), ME (S4B), MI (S5), MN (SNRB), MO (SNRB), MS (S5B), MS (S5B), MT (SNA), NC (S5B), NC (S5B), ND (SNRB), NE (S4), NH (S5B), NJ (S4B), NM (SNA), NY (S5), OH (S5), OK (S5B), PA (S5B), RI (S5B,S5N), SC (S5), SD (S3B), SD (S3B), TN (S5), TX (S4B), VA (S5), VT (S5B), VT (S5B), WI (S4B), WI (S4B), WV (S5B), WY (SNA), LB (SNA), MB (S4S5B), MB (S4S5B), NB (S5B), NF (SNA), NS (S4B), ON (S4B), PE (S5B), QC (S4B), SK (S4B)

**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	88,314.5	< 1	37,505.7	< 1	0.0	0	0.0	0
Status 2	213,422.2	< 1	405,067.2	< 1	0.0	0	4,650.3	< 1
Status 3	3,551.5	< 1	2,627,735.9	5	53,499.3	< 1	569,953.0	1
Status 4	67.4	< 1	< 0.1	< 1	0.0	0	127.4	< 1
Total	305,355.6	< 1	3,070,308.9	6	53,499.3	< 1	574,730.6	1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	270,383.1	< 1	20.4	< 1	0.0	0
Status 2	0.0	0	14,876.6	< 1	3,705.8	< 1	40.1	< 1
Status 3	65,232.2	< 1	108,016.6	< 1	0.0	0	3,947.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	65,232.2	< 1	393,276.2	< 1	3,726.2	< 1	3,987.5	< 1
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	1,546.7	< 1	72.0	< 1	0.0	0
Status 2	0.0	0	19,425.3	< 1	630,364.9	1	1,411.9	< 1
Status 3	23,717.7	< 1	302,380.2	< 1	231,038.2	< 1	219,205.3	< 1
Status 4	0.0	0	< 0.1	< 1	99,093.1	< 1	44.6	< 1
Total	23,717.7	< 1	323,352.4	< 1	960,568.1	2	220,661.7	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	15,249.6	< 1	0.0	0	0.0	0
Status 2	11,656.2	< 1	91,271.6	< 1	5.0	< 1	2,300.0	< 1
Status 3	0.0	0	6,957.4	< 1	14,765.3	< 1	53,682.1	< 1
Status 4	0.0	0	2.1	< 1	2,618.3	< 1	0.0	0
Total	11,656.2	< 1	113,480.6	< 1	17,388.5	< 1	55,982.1	< 1
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%		
Status 1	0.0	0	0.0	0	413,092.1	< 1		
Status 2	0.0	0	0.0	0	1,398,197.0	3		
Status 3	539.9	< 1	1.0	< 1	4,284,222.8	13		
Status 4	44,788,226.0	83	30,908.0	< 1	45,020,112.5	84		
Total	44,788,765.9	83	30,909.0	< 1	51,115,624.4	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: Breeds in all woodland types at low and mid elevations, in forested wetlands (including southern riverine forests, southern mixed hardwood swamp forests, bald cypress, pocosin, Carolina bays, and Appalachian riverine forests); upland broadleaf woodlands (oak-hickory, southerh hardwoods at low elevations, and Appalachian cove forests at mid elevations); and mixed broadleaf-needleleaf woodlands (pine-oak and pine-white cedar at low elevations, red cedar-hemlock-eastern white pine-mixed deciduous at mid elevation and red spruce-beech-maple at high elevations). Also inhabits Pine woodlands (Coastal Plain and Piedmont: longleaf-slash, loblolly-shortleaf. Piedmont, Ridge and Valley, Highland Rime and Cumberland Plateau: virginia pine, shortleaf pine) (Hunter -AL). Any area supplied with large trees, from deep woods to old orchards and town plantings is used. Slightly partial to deciduous woods, but is very common in almost every patch of woods, can even adapt to pure stands of pine. Also mature forests, farm woodlots, orchards, parks, yards, borders of fields, clearings, roadsides (Anderson-AL). Open to medium-growth woods in rather dry situation. Hammel (1992) reports that they inhabit open pines, parks, wooded residential areas and remote forests. In peidmont highest densities in pine forest of intermediate age (about 60 years); lower densities in older pine forest and in mature oak-hickory forest. Size of forest fragment does not appear to be an important factor for habitat selection (McCarty 1996). Prefers forest clearings and edges, such as those around meadows, roadsides, and ponds (Kaufman 1996, McCarty 1996). Both Alsop (1991) and Simpson (1992) list the pewee as rare in the spruce-fir forests. In Florida they are common in deciduous woods throughout breeding range, also open pine woods and less common in hardwood forests and swamps (Stevenson and Anderson 1994). Does not use whitepine-hemlock, but does use other pine/scrub oak habitats.(Hamel 1992)

In addition to foraging from a high perch, they also will glean from foliage and take insects from the ground (Ehrlich et al 1988, Kaufman 1996, McMarty 1996).

Nests can be in trees or saplings, either deciduous or coniferous (Hamel 1992), and usually on horizontal branch far from truck (Ehrlich 1988). Generally it is 15 to 50 feet above the ground (Hamel 1992, Potter et al 1980).

Home range size was 10.8 acres (Schoener 1968).

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

Elevation Mask: < 1371m

### Selected Map Units:

Functional Group	Map Unit Name
Anthropogenic	Deciduous Plantations
Anthropogenic	Low Intensity Developed
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	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 Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
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	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	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	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 Oak Forest
Forest/Woodland	Southern and Central Appalachian Oak Forest - Xeric
Forest/Woodland	Southern Appalachian Low Mountain Pine Forest
Forest/Woodland	Southern Appalachian Montane Pine Forest and Woodland
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 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 Clay-Based Carolina Bay Herbaceous 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 Sandhill Seep
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	Atlantic Coastal Plain Xeric River Dune
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 Cypress Dome
Wetlands	South Florida Hardwood Hammock
Wetlands	South Florida Pine Flatwoods
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern Appalachian Seepage Wetland
Wetlands	Southern Coastal Plain Blackwater River Floodplain Forest
Wetlands	Southern Coastal Plain Herbaceous Seepage Bog
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
Wetlands	Western Highland Rim Seepage Fen

**CITATIONS:** Alsop FJ III. 1991. Birds of the Smokies. Gatlinburg: Great Smoky Mountains Natural History Association.

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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.