



SOUTHEAST GAP ANALYSIS PROJECT



Species Modeling Report

Alder Flycatcher

Empidonax alnorum

Taxa: Avian

Order: Passeriformes

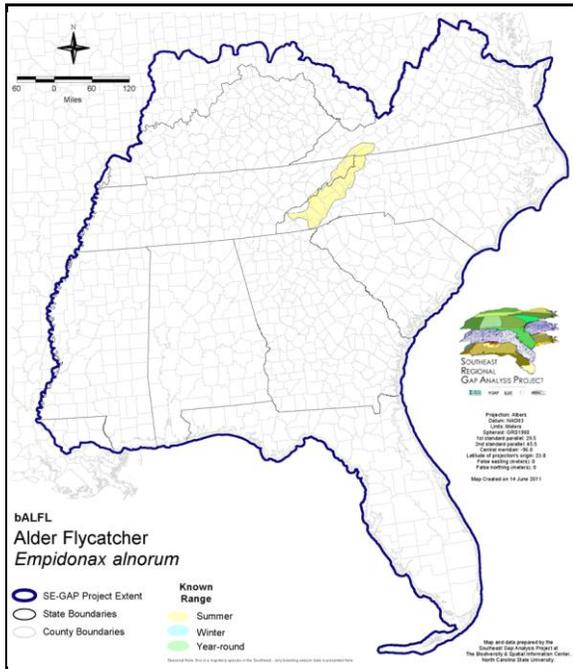
Family: Tyrannidae

SE-GAP Spp Code: **bALFL**

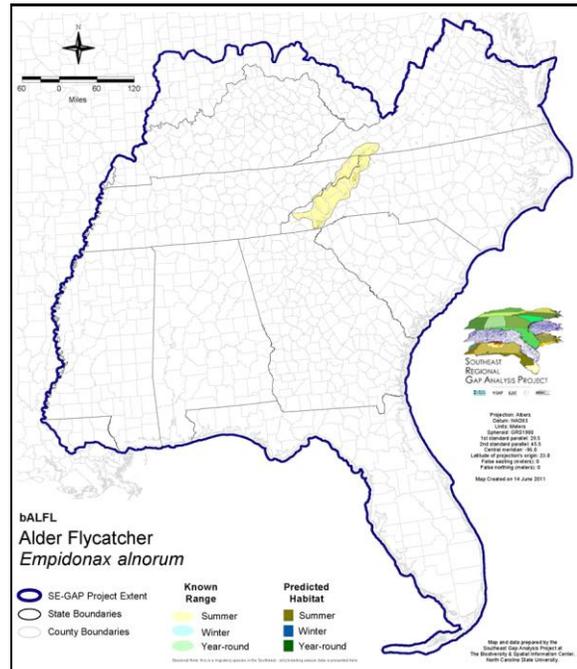
ITIS Species Code: 178340

NatureServe Element Code: ABPAE33030

KNOWN RANGE:



PREDICTED HABITAT:



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

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

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

Data Download: http://www.basic.ncsu.edu/segap/datazip/region/vert/bALFL_se00.zip

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---

State Status: CT (SC), CT (SC), KY (N), MD (I), NC (SR), NC (SR), NJ (S/S), NY (PB), RI (Not Listed), VA (SC), VA (SC), BC (4 (2005)), QC (Non suivie)

NS Global Rank: G5

NS State Rank: AK (S5B), AL (SNA), AR (SNA), CO (SNA), CT (S5B), CT (S5B), DC (S1N), DE (SNA), FL (SNA), GA (SNRN), IA (S3N), IL (S2), IN (S2B), KS (SNA), KY (SNA), LA (SNA), MA (S4B), MD (S2B), ME (S4S5B), MI (S5), MN (SNRB), MO (SNA), MS (SNA), MT (S1B), NC (S2B), NC (S2B), ND (SU), NE (SNRN), NH (S5B), NJ (S4B), NY (S5), OH (S3), OK (S2N), OR (SNA), PA (S3S4B), RI (SNA), SC (SNA), SD (SNA), TN (S1), TX (S4), VA (S1S2B), VA (S1S2B), VT (S5B), VT (S5B), WI (S3B), WI (S3B), WV (S3B), WY (SNA), AB (S5), BC (S5B), LB (S3B), MB (S5B), MB (S5B), NB (S5B), NF (S3B), NS (S5B), NT (SNRB), ON (S5B), PE (S5B), QC (S5B), SK (S5B,S5M), YT (S5B)

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	0.0	0	196.7	< 1	0.0	0	0.0	0
Status 2	0.0	0	899.4	2	0.0	0	0.0	0
Status 3	0.0	0	5,975.9	13	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	7,071.9	15	0.0	0	0.0	0
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	980.0	2	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	0.0	0	2,122.9	5	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	3,102.9	7	0.0	0	0.0	0
	Native Am. Reserv.		State Park/Hist. Park		State WMA/Gameland		State Forest	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	0.0	0	0.0	0	0.0	0
Status 3	100.6	< 1	368.3	< 1	69.0	< 1	11.2	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	100.6	< 1	368.3	< 1	69.0	< 1	11.2	< 1
	State Coastal Reserve		ST Nat.Area/Preserve		Other State Lands		Private Cons. Easemt.	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	0.0	0	0.0	0
Status 2	0.0	0	54.3	< 1	0.0	0	0.0	0
Status 3	0.0	0	0.0	0	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	54.3	< 1	0.0	0	0.0	0
	Private Land - No Res.		Water		Overall Total			
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	0.0	0	1,176.7 3			
Status 2	0.0	0	0.0	0	953.6 2			
Status 3	0.0	0	0.0	0	8,647.9 31			
Status 4	29,717.7	64	0.5	< 1	29,718.3 64			
Total	29,717.7	64	0.5	< 1	40,496.5 100			

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: Alder flycatchers breed in brushy and scrubby growth, thickets, deciduous forest edge, open second growth, and swamps (NATURE SERVE). In the higher elevations, both bogs with scattered shrubs and saplings, and uplands with shrub/saplings thickets, are used (Hamel 1992). Kaufman (1996) lists this flycatcher as normally occurring 'near water, as around streams, ponds, or bogs.' Nests in damp thickets of alder and various shrubs, in bogs, along marshy borders of lakes, and in brush along stream banks (Harrison 1979).

The Alder Flycatcher hunts exclusively from perches with tall shrubs or low trees, either hawking them from the air or gleaning from the foliage (Kaufman 1996, Lowther 1999).

Nest is usually in a deciduous shrub or sapling (Hamel 1992, Lowther 1999), averaging about 2 feet above the ground (Kaufman 1996).

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

Additional information:

Marshall and Vandruff (2002) demonstrate that Alder Flycatchers use utility swaths for breeding. Can not find any quantitative information on spatial relationship to water.

Crozier and Niemi (2003) found that Alder flycatcher abundance in Michigan was related to patch size by the following linear equation = prob. Of occurrence = $1.07 + 0.38\text{Area} + 0.03\text{edgecontrast}$ (R^2 for Area was 0.56 and 0.1 for edge contrast). K. Cook, 17Feb05

Elevation Mask: > 1050m and < 2500m

Mask of Forest/Open Ecotone: Include within 60m of ecotone edge.

Mask of Woodlands and Shrublands: Include all woodland and shrubland interiors and 60m buffer from them.

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)
Bald	Central Appalachian Montane Rocky Bald - Shrub Modifier
Bald	Southern Appalachian Grass and Shrub Bald - Shrub Modifier
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	Appalachian Shale Barrens
Forest/Woodland	Central and Southern Appalachian Montane Oak Forest
Forest/Woodland	Central and Southern Appalachian Northern Hardwood Forest
Forest/Woodland	Central and Southern Appalachian Spruce-Fir Forest
Forest/Woodland	Central Appalachian Alkaline Glade and Woodland
Forest/Woodland	Central Appalachian Oak and Pine Forest
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	Ridge and Valley Calcareous Valley Bottom Glade and 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 Montane Pine Forest and Woodland
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-Heath Forest - Virginia/Pitch Pine Modifier
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest
Forest/Woodland	Southern Ridge and Valley Dry Calcareous Forest - Hardwood Modifier
Rock Outcrop	Southern Appalachian Granitic Dome
Wetlands	Central Appalachian Floodplain - Forest Modifier
Wetlands	Central Appalachian Floodplain - Herbaceous Modifier
Wetlands	Central Appalachian Riparian - Forest Modifier
Wetlands	Central Appalachian Riparian - Herbaceous Modifier
Wetlands	North-Central Appalachian Seepage Fen
Wetlands	South-Central Interior Large Floodplain - Forest Modifier
Wetlands	South-Central Interior Large Floodplain - Herbaceous Modifier
Wetlands	South-Central Interior Small Stream and Riparian
Wetlands	Southern and Central Appalachian Bog and Fen
Wetlands	Southern Appalachian Seepage Wetland
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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This data was compiled and/or developed by the Southeast GAP Analysis Project at The Biodiversity and Spatial Information Center, North Carolina State University.