

Species Modeling Report

Valley and Ridge Salamander

Plethodon hoffmani

Taxa: Amphibian Order: Caudata

Family: Plethodontidae

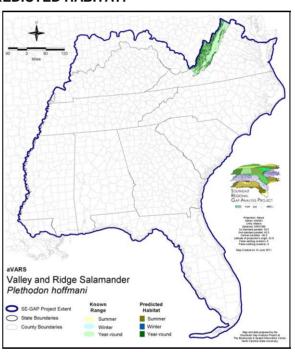
SE-GAP Spp Code: aVARS ITIS Species Code: 173657

NatureServe Element Code: AAAAD12080

KNOWN RANGE:

Valley and Ridge Salamander Plethodon hoffmani

PREDICTED HABITAT:



Range Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Range_aVARS.pdf Predicted Habitat Map Link: http://www.basic.ncsu.edu/segap/datazip/maps/SE_Dist_aVARS.pdf GAP Online Tool Link: http://www.gapserve.ncsu.edu/segap/segap/index2.php?species=aVARS

http://www.basic.ncsu.edu/segap/datazip/region/vert/aVARS_se00.zip Data Download:

PROTECTION STATUS:

Reported on March 14, 2011

Federal Status: ---State Status: ---NS Global Rank: G5

NS State Rank: MD (S5), PA (S4), VA (S4), WV (S4)

aVARS Page 1 of 3

SUMMARY OF PREDICTED HABITAT BY MANAGMENT AND GAP PROTECTION STATUS:

	L	JS FWS	US Forest Service		Tenn. Valley Author.		US DOD/ACOE	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	387.9	< 1	0.0	0	0.0	0
Status 2	0.0	0	107,841.8	12	0.0	0	0.0	0
Status 3	0.0	0	244,323.0	26	0.0	0	43.7	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	352,552.7	38	0.0	0	43.7	< 1
	US Dept. of Energy		US Nat. Park Service		NOAA		Other Federal Lands	
	ha	%	ha	%	ha	%	ha	%
Status 1	0.0	0	4,381.7	< 1	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	3,817.8	< 1	0.0	0	0.0	0
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	8,199.5	< 1	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	19,512.5	2	0.0	0
Status 3	0.0	0	1,990.4	< 1	0.0	0	194.4	< 1
Status 4	0.0	0	0.0	0	0.0	0	0.0	0
Total	0.0	0	1,990.4	< 1	19,512.5	2	194.4	< 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	332.1	< 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	5.8	< 1	0.0	0
Total	0.0	0	332.1	< 1	5.8	< 1	0.0	0
	Private Land - No Res.		Water				Overall Total	
	ha	%	ha	%			ha	%
Status 1	0.0	0	0.0	0			4,769.6	< 1
Status 2	0.0	0	0.0	0			127,686.4	14
Status 3	0.0	0	0.0	0			250,369.3	53
Status 4	308,155.1	33	0.4	< 1			308,161.3	33
Total	308,155.1	33	0.4	< 1			690,986.6	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.

aVARS Page 2 of 3

PREDICTED HABITAT MODEL(S):

Year-round Model:

Habitat Description: The Valley and Ridge salamander is found in the physiographic region from which it gets its name and is

associated with hardwood forest. They can be found under rocks, logs, and other surface cover along ravines and mountain slopes (Petranka 1998). They are sometimes found in the twilight zones of West Virginia caves (Petranka 1998). Courtship and mating probably occur in spring. A clutch of 3-8 eggs is laid in spring. The larval stage is passed in the egg and the female attends the clutch. Hatching occurs in

August-September and sexual maturity is reached in 2-3 years. Stacy Smith, 15April05

Elevation Mask: < 1402m

ected 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	Central and Southern Appalachian Montane Oak Forest				
Forest/Woodland	Northeastern Interior Dry Oak Forest-Hardwood Modifier				
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				

CITATIONS:

Highton, R. 1986. Plethodon hoffmani. Catalogue of American Amphibians and Reptiles. 392:1-

2.

Petranka, J. W. 1998. Salamanders of the United States and Canada. Washington DC: Smithsonian Inst.

Press.

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.

aVARS Page 3 of 3