# APPENDIX H INFORMATION ON RARE, THREATENED OR ENDANGERED SPECIES IN CUMBERLAND GAP NATIONAL HISTORICAL PARK

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# Key to Numeric Rank for Global Rangs (G) and State Ranks (S) for Documented Plant Species of Concern for Cumberland National Historical Park Ordered Alphabetically by Scientific Name, Ranking, and Status According to Natureserve and the States of Kentucky, Tennessee, and Virginia

- G1 = Critically imperiled globally
- G2 = Imperiled globally
- G3 = Rare or uncommon
- G4 = Widespread, abundant, and apparently secure, but with cause for long-term concern
- G5 = Demonstrably widespread, abundant and secure
- G? = Unranked
- GNR = Not ranked
- S1 = Critically imperiled statewide
- S2 = Imperiled statewide
- S3 = Rare or uncommon
- S4 = Widespread, abundant, and apparently secure, but with cause for long-term concern in the state
- S5 = Demonstrably widespread, abundant and secure in the state
- S? = Unranked
- SH = State Historic
- SNR = Not ranked
- SNA = Exotic species

n/a = not ranked (usually because only genus was identified)

# Qualifiers:

- ? = Inexact numeric rank
- Q = Questionable taxonomy

	Plant Species of Cor Scientific Name, Rar of Kentu	nking, and		ng to Nati			
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Acer pensylvanicum	STRIPED MAPLE	28754	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Acorus americanus	SWEETFLAG	182561	Pounds, Patrick, and Hinkle 1989	G5	S4	SNA	SNR
Acorus calamus	SWEETFLAG	42523	Pounds, Patrick, and Hinkle 1989	G4?	S4	SNR	SNR
Adiantum pedatum	NORTHERN MAIDENHAIR- FERN	17311	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Adlumia fungosa	CLIMBING FUMITORY	18897	Pounds, Patrick, and Hinkle 1989	G4	S1	S2	S3
Agalinis tenuifolia	SLENDER FALSE- FOXGLOVE	33036	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Ageratina aromatica	LESSER SNAKEROOT	36467	Pounds, Patrick, and Hinkle 1989	G4G5	S4	SNR	SNR
Agrimonia gryposepala	TALL HAIRY GROOVEBUR	25095	Pounds, Patrick, and Hinkle 1989	G5	S1S2	SNR	SNR
Agrostis hyemalis	WINTER BENTGRASS	40394	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Agrostis perennans	PERENIAL BENTGRASS	40423	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Alisma subcordatum	BROAD-LEAVED WATER-PLANTAIN	38895	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR
Allium cernuum	NODDING ONION	42721	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR

Latin Name	of Kentucky, T	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Allium tricoccum	WILD LEEK	42672	Pounds, Patrick, and Hinkle 1989	G5	S4	S1S2	SNR
Amianthium muscitoxicum	FLY-POISON	42775	Pounds, Patrick, and Hinkle 1989	G4G5	S1S2	SNR	SNR
Anemone quinquefolia	WOOD ANEMONE	18448	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Angelica venenosa	HAIRY ANGELICA	29453	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Antennaria solitaria	SINGLE-HEAD PUSSYTOES	36756	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Aplectrum hyemale	PUTTYROOT	43489	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4S5
Arabis canadensis	SICKLEPOD	22678	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Arabis lyrata	LYRE-LEAF ROCKCRESS	22672	NatureServe 2002/2003	G5	S3?	SNR	SNR
Aralia nudicaulis	WILD SARSAPARILLA	29376	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
Aralia racemosa	AMERICAN SPIKENARD	29377	Pounds, Patrick, and Hinkle 1989	G4G5	S4	SNR	SNR
Arisaema dracontium	GREEN DRAGON	42529	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Aristolochia macrophylla	PIPEVINE	18336	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR

	lant Species of Con Scientific Name, Ran of Kentucky, Te	iking, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Aristolochia serpentaria	VIRGINIA SNAKEROOT	18342	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNR
Aruncus dioicus	COMMON GOATSBEARD	25130	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SU
Asclepias exaltata	POKE MILKWEED	30266	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asclepias quadrifolia	WHORLED MILKWEED	30297	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asclepias variegata	WHITE MILKWEED	30319	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asclepias verticillata	WHORLED MILKWEED	30320	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Asclepias viridiflora	GREEN MILKWEED	30322	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asplenium montanum	MOUNTAIN SPLEENWORT	17351	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Asplenium pinnatifidum	LOBED SPLEENWORT	17354	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
Asplenium resiliens	BLACK-STEM SPLEENWORT	17358	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asplenium ruta- muraria	WALLRUE SPLEENWORT	192107	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Asplenium trichomanes	MAIDENHAIR SPLEENWORT	17364	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR

Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Aster acuminatus	WHORLED ASTER	35521	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR
Aster infirmus	CORNEL-LEAF ASTER	35591	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Aster laevis var. concinnus	SMOOTH BLUE ASTER	193140	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3
Aster oblongifolius	AROMATIC ASTER	35615	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4
Aster surculosus	MICHAUX'S WOOD ASTER	35662	Pounds, Patrick, and Hinkle 1989	G4G5	S5	SNR	S1
Aureolaria pedicularia	FERNLEAF YELLOW FALSE- FOXGLOVE	33489	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
Blephilia ciliata	DOWNY WOODMINT	32460	NatureServe 2002/2003	G5	S4	SNR	SNR
Blephilia hirsuta	HAIRY WOODMINT	32461	Pounds, Patrick, and Hinkle 1988	G5?	S5?	SNR	S3
Boykinia aconitifolia	BROOK SAXIFRAGE	24314	Pounds, Patrick, and Hinkle 1989	G4	S2	SNR	SNR
Brickellia eupatorioides	FALSE BONESET	36875	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Calamagrostis porteri	PORTER'S REEDGRASS	40562	Pounds, Patrick, and Hinkle 1989	G4	S2	S1	S3S4
Callitriche heterophylla	LARGE WATER- STARWORT	32053	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR

	Plant Species of Cor Scientific Name, Ra of Kentucky, T	nking, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Cardamine diphylla	TWO-LEAF TOOTHWORT	22792	Pounds, Patrick, and Hinkle 1989	G5	S5	S3S4	S3
Cardamine rotundifolia	ROUND-LEAF WATER CRESS	22810	Pounds, Patrick, and Hinkle 1989	G4	S3S4	S2S3	S4
Carex abscondita	THICKET SEDGE	39475	BONAP County Database	G4G5	S3S4	SNR	SNR
Carex appalachica	APPALACHIAN SEDGE	39497	NatureServe 2002/2003	G4	S2?	S1	S4
Carex atlantica ssp. atlantica	PRICKLY BOG SEDGE	523747	NatureServe 2002/2003	G5	S4?	SNR	SNR
Carex austrocaroliniana	TARHEEL SEDGE	39514	Pounds, Patrick, and Hinkle 1989	G4	S3	S2S3	SNR
Carex baileyi	BAILEY'S SEDGE	39376	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
Carex bromoides	BROMELIKE SEDGE	39380	NatureServe 2002/2003	G5	S4?	SNR	SNR
Carex careyana	CAREY'S SEDGE	39541	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S3
Carex debilis var. pubera	WHITE EDGE SEDGE	527086	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Carex interior	INLAND SEDGE	39652	NatureServe 2002/2003	G5	SNR	SNR	S1
Carex laxiculmis	SPREADING SEDGE	39411	NatureServe 2002/2003	G5	S3S4	SNR	SNR
Carex laxiflora	LOOSE- FLOWERED SEDGE	39662	Pounds, Patrick, and Hinkle 1989	G5	S5	S4	SNR
Carex leptalea	BRISTLY-STALK SEDGE	39669	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR

	Plant Species of Cor Scientific Name, Rar of Kentucky, T	nking, and		ng to Nati	ureserve		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Carex lucorum	BLUE RIDGE SEDGE	501241	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S2
Carex nigromarginata	BLACK EDGE SEDGE	39719	NatureServe 2002/2003	G5	S4?	SNR	SNR
Carex normalis	GREATER STRAW SEDGE	39720	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Carex purpurifera	PURPLE SEDGE	39776	Pounds, Patrick, and Hinkle 1989	G4?	S3S4	S3	S2
Carex radiata	STELLATE SEDGE	39778	Pounds, Patrick, and Hinkle 1989	G4	S2?	SNA	SNR
Carex striatula	LINED SEDGE	39822	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	SNR
Carex styloflexa	BENT SEDGE	39823	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	SNR
Carya alba	MOCKERNUT HICKORY	501306	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Carya ovalis	RED HICKORY	19241	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Carya pallida	SAND HICKORY	19244	NatureServe 2002/2003	G5	S4	SNR	SNR
Castanea dentata	AMERICAN CHESTNUT	19454	Pounds, Patrick, and Hinkle 1989	G4	S1?	S2S3	SNR
Castanea pumila	ALLEGHENY CHINQUAPIN	19457	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
Caulophyllum thalictroides	BLUE COHOSH	18840	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR

	Plant Species of Con Scientific Name, Rar of Kentucky, Te	iking, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Chamaelirium luteum	DEVIL'S-BIT	42894	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Cheilanthes alabamensis	ALABAMA LIPFERN	17434	Pounds, Patrick, and Hinkle 1989	G4G5	SH	SNR	S1
Chelone glabra	WHITE TURTLEHEAD	33182	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Chrysopsis mariana	MARYLAND GOLDEN ASTER	202495	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Cinna latifolia	SLENDER WOOD REEDGRASS	40584	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S3
Cirsium muticum	SWAMP THISTLE	36387	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Clematis catesbyana	SATINCURLS	18691	NatureServe 2002/2003	G4G5	SH	SNR	S1
Clematis viorna	VASE-VINE LEATHERFLOWER	18715	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Clitoria mariana	MARYLAND BUTTERFLY-PEA	26542	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Cocculus carolinus	CAROLINA CORALBEAD	18864	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S1

Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Convallaria montana	AMERICAN LILY- OF-THE-VALLEY	511293	Pounds, Patrick, and Hinkle 1989	G4	S1	SNA	SNR
Corallorrhiza odontorhiza	AUTUMN CORAL- ROOT	43525	Pounds, Patrick, and Hinkle 1989. Plant list compiled by BONAP from its County Database, and converted to NPSpecies by I&M Office.	G5	S4S5	SNR	S5
Corallorrhiza wisteriana	SPRING CORALROOT	43528	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
Corydalis sempervirens	PALE CORYDALIS	19010	Pounds, Patrick, and Hinkle 1989	G4G5	S3?	S1S2	SNR
Crataegus calpodendron	PEAR HAWTHORN	24547	NatureServe 2002/2003	G5	S4?	SNR	S1
Crataegus uniflora	DWARF HAWTHORN	24608	NatureServe 2002/2003	G5	S3?	SNR	SNR
Croton monanthogynus	PRAIRIE TEA	28283	NatureServe 2002/2003	G5	S5	SNR	S3
Cypripedium acaule	PINK LADY'S- SLIPPER	43534	Pounds, Patrick, and Hinkle 1989	G5	S4	S4	S5
Cypripedium parviflorum	SMALL YELLOW LADY'S-SLIPPER	501943	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
Cypripedium pubescens	LARGE YELLOW LADY'S-SLIPPER	501945	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Danthonia compressa	FLATTENED OATGRASS	41637	NatureServe 2002/2003	G5	S3S4	SNR	SNR

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Dennstaedtia punctilobula	EASTERN HAY- SCENTED FERN	17491	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Deschampsia flexuosa	WAVY HAIRGRASS	40595	NatureServe 2002/2003	G5	S2	SNR	SNR
Diarrhena americana	AMERICAN BEAKGRAIN	41644	Pounds, Patrick, and Hinkle 1989	G4?	S5	SNR	S3
Diplazium pycnocarpon	GLADE FERN	502095	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Disporum maculatum	NODDING MANDRIN	42920	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	S3
Dryopteris goldiana	GOLDIE'S WOODFERN	17537	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
Elephantopus tomentosus	TOBACCOWEED	37300	Pounds, Patrick, and Hinkle 1989	G5	S3	SNR	SNR
Elymus canadensis	NODDING WILD- RYE	40683	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S2?
Epilobium coloratum	PURPLE-LEAF WILLOW-HERB	27298	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Eryngium yuccifolium	RATTLESNAKE- MASTER	29506	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S2
Eupatorium incarnatum	PINK THOROUGHWORT	502514	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S2
Euphorbia mercurialina	MERCURY SPURGE	28101	Pounds, Patrick, and Hinkle 1989	G4	S1S2	SNR	SNA

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Frangula caroliniana	CAROLINA BUCKTHORN	506986	Pounds, Patrick, and Hinkle 1989	G5	SNA	SNR	S3
Galearis spectabilis	SHOWY ORCHIS	43591	Pounds, Patrick, and Hinkle 1989	G5	S5	S4	S5
Gentiana decora	SHOWY GENTIAN	29975	Pounds, Patrick, and Hinkle 1989	G4?	S3	SNR	S3S4
Gentiana villosa	STRIPED GENTIAN	29990	Pounds, Patrick, and Hinkle 1989	G4	S4?	SNR	SNR
Geum vernum	SPRING AVENS	24664	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3S4
Glyceria melicaria	SLENDER MANNA GRASS	40849	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Helianthus atrorubens	PURPLE-DISK SUNFLOWER	36620	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Helianthus hirsutus	STIFF-HAIR SUNFLOWER	36646	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
Heuchera parviflora	LITTLE-LEAVED ALUMROOT	24365	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S3
Hexalectris spicata	CRESTED CORALROOT	43608	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	S3
Hexastylis arifolia	LITTLE BROWN JUG	502983	Pounds, Patrick, and Hinkle 1989	G5	S5	S5	S3
Hexastylis heterophylla	VARIABLE-LEAVED HEARTLEAF	502985	Pounds, Patrick, and Hinkle 1989	G4G5Q	S3S4	SNR	SNR

	Plant Species of Con Scientific Name, Rar of Kentucky, To	nking, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Hieracium scabrum	ROUGH HAWKWEED	37727	Pounds, Patrick, and Hinkle 1989	G5	S4	S2	SNR
Hieracium venosum	RATTLESNAKE HAWKWEED	37734	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Huperzia porophila	ROCK CLUBMOSS	503084	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S1
Hydrastis canadensis	GOLDEN-SEAL	18781	Pounds, Patrick, and Hinkle 1989	G4	S4	S3	S3
Hydrophyllum macrophyllum	LARGELEAF WATERLEAF	31393	NatureServe 2002/2003	G5	S5	S4S5	S3
llex ambigua	CAROLINA HOLLY	27987	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Iris cristata	CRESTED DWARF	43204	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Isotria verticillata	LARGE WHORLED POGONIA	43615	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	S5
Juglans cinerea	BUTTERNUT	19250	Pounds, Patrick, and Hinkle 1989	G3G4	S3	S3	S3?
Juncus interior	INLAND RUSH	39280	NatureServe 2002/2003	G4G5	S4?	SNR	SNR
Juncus subcaudatus	WOODS-RUSH	39316	Pounds, Patrick, and Hinkle 1989	G5	S1?	SNR	SNR
Krigia biflora	TWO-FLOWERED DWARF DANDELION	37810	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4
Krigia virginica	DWARF DANDELION	37816	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Kyllinga brevifolioides	PASTURE FLATSEDGE	515529	Pounds, Patrick, and Hinkle 1989	GNR	S3?	SNA	SNA
Lactuca canadensis	CANADA LETTUCE	36596	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lathyrus venosus	SMOOTH VEINY PEAVINE	25886	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR
Lemna minor	LESSER DUCKWEED	42590	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Lespedeza frutescens	WAND BUSH- CLOVER	575841	NatureServe 2002/2003	G5	S4S5	SNR	SNR
Lespedeza intermedia	WAND BUSH- CLOVER	25903	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lespedeza procumbens	TRAILING BUSH- CLOVER	25907	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lespedeza repens	CREEPING BUSH- CLOVER	503402	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Liatris aspera	TALL GAY- FEATHER	37909	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	S3
Ligusticum canadense	LOVAGE	29528	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
Lilium canadense	CANADA LILY	42732	NatureServe 2002/2003	G5	S4?	S3	SNR
Linum virginianum	VIRGINIA FLAX	29202	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR
Liparis liliifolia	LARGE TWAYBLADE	43622	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	S5

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Lithospermum canescens	HOARY PUCCOON	31945	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Lithospermum latifolium	AMERICAN GROMWELL	31949	Pounds, Patrick, and Hinkle 1989	G4	S4?	SNR	S3
Lobelia puberula	DOWNY LOBELIA	34529	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Lobelia spicata	PALE-SPIKED LOBELIA	34532	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lonicera dioica	LIMBER HONEYSUCKLE	35290	NatureServe 2002/2003	G5	S4	S2	SNR
Luzula bulbosa	SOUTHERN WOODRUSH	39338	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Luzula echinata	WOOD RUSH	39342	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Lycopodium clavatum	RUNNING CLUBMOSS	17024	NatureServe 2002/2003	G5	S1?	SNR	SNR
Lycopodium obscurum	TREE CLUBMOSS	17032	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lycopodium tristachyum	DEEP-ROOT CLUBMOSS	17037	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Lygodium palmatum	CLIMBING FERN	17985	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S3
Lysimachia tonsa	SOUTHERN LOOSESTRIFE	24001	Pounds, Patrick, and Hinkle 1989	G4	S4	S2S3	S4
Magnolia macrophylla	BIGLEAF MAGNOLIA	18075	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S1

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Maianthemum canadense	FALSE LILY-OF- THE-VALLEY	503653	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
Malaxis unifolia	GREEN ADDER'S- MOUTH	43647	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S5
Malus angustifolia	SOUTHERN CRABAPPLE	25255	Pounds, Patrick, and Hinkle 1989	G5?	S3S4	SNR	SNR
Melampyrum lineare	AMERICAN COW- WHEAT	33651	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
Minuartia glabra	APPALACHIAN SANDWORT	19995	Pounds, Patrick, and Hinkle 1989	G4	S1S2	S3	SNR
Muhlenbergia frondosa	WIRESTEM MUHLY	41915	NatureServe 2002/2003	G5	S4S5	SNR	SNR
Myosotis macrosperma	LARGESEED FORGET-ME-NOT	31695	NatureServe 2002/2003	G5	S4S5	SNR	SNR
Ophioglossum pycnostichum	ADDERS TONGUE	517792	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Orobanche uniflora	ONE-FLOWERED BROOMRAPE	34300	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Osmunda claytoniana	INTERRUPTED FERN	17220	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Oxalis montana	WHITE WOOD- SORREL	29090	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Oxypolis rigidior	STIFF COWBANE	29544	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Panax quinquefolius	AMERICAN GINSENG	29399	Pounds, Patrick, and Hinkle 1989	G4	S5	S3S4	S3S4

Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Panicum anceps	BEAKED PANIC GRASS	40904	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Panicum dichotomiflorum	FALL PANIC GRASS	40908	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Paronychia argyrocoma	SILVERY NAILWORT	20321	Pounds, Patrick, and Hinkle 1989	G4	S1	S1S2	S4
Paronychia canadensis	FORKED NAILWORT	20325	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Paspalum pubiflorum	HAIRY-SEED PASPALUM	40994	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
Pellaea atropurpurea	PURPLE-STEM CLIFF-BRAKE	17641	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Phacelia bipinnatifida	FERNLEAF PHACELIA	31459	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
Phacelia purshii	MIAMI-MIST	504279	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
Phaseolus polystachios	WILD KIDNEY BEAN	504291	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNR
Philadelphus hirsutus	STREAMBANK MOCK-ORANGE	24427	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3
Phlox amplifolia	LARGE-LEAVED PHLOX	30911	Pounds, Patrick, and Hinkle 1989	G3G5	S4S5	SNR	S2
Photinia melanocarpa	BLACK CHOKEBERRY	565397	NatureServe 2002/2003	G5	S4S5	SNR	SNR

Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Pinus rigida	PITCH PINE	183376	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Platanthera ciliaris	YELLOW FRINGED ORCHID	43413	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3S4
Platanthera clavellata	SMALL GREEN WOODLAND ORCHID	43423	Pounds, Patrick, and Hinkle 1989	G5	S4	S4?	S5
Platanthera flava	PALE GREEN ORCHID	43414	Pounds, Patrick, and Hinkle 1989	G4	S4?	SNR	S3
Platanthera lacera	GREEN FRINGED ORCHID	43430	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S3S4
Pleopeltis polypodioides	RESURRECTION FERN	504451	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Poa alsodes	GROVE BLUEGRASS	41104	NatureServe 2002/2003	G4G5	S4S5	SNR	S3
Polygala senega	SENECA SNAKEROOT	29316	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
Polygonum arifolium	HALBERD-LEAF TEARTHUMB	20849	Pounds, Patrick, and Hinkle 1989	G5	S4?	S1	SNR
Polypodium virginianum	ROCK POLYPODY	17242	Pounds, Patrick, and Hinkle 1989	G5	S5	S4S5	SNR
Porteranthus trifoliatus	BOWMAN'S-ROOT	25285	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
Potentilla norvegica	NORWEGIAN CINQUEFOIL	24730	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR

	Documented Plant Species of Concern for Cumberland National Historical Park Ordered Alphabetically by Scientific Name, Ranking, and Status According to Natureserve and the States of Kentucky, Tennessee, and Virginia (Continued)								
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA		
Ranunculus allegheniensis	ALLEGHENY MOUNTAIN BUTTERCUP	18586	NatureServe 2002/2003	G4G5	S3S4	S1	SNR		
Rhododendron catawbiense	CATAWBA RHODODENDRON	23714	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR		
Rhododendron cumberlandense	CUMBERLAND RHODODENDRON	504750	Pounds, Patrick, and Hinkle 1989	G4?	SNR	S3	S3		
Rhododendron minus	CAROLINA RHODODENDRON	23722	NatureServe 2002/2003	G4	SNA	S2	SNR		
Rhododendron prinophyllum	EARLY AZALEA	23727	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR		
Robinia hispida var. rosea	BRISTLY LOCUST	530084	BONAP County Database	G4	S2S3	SNR	SNR		
Rosa setigera	PRAIRIE ROSE	24839	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S1		
Rosa virginiana	VIRGINIA ROSE	24810	Pounds, Patrick, and Hinkle 1989	G5	SNA	SH	S3		
Rubus odoratus	PURPLE FLOWERING RASPBERRY	24997	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR		
Rudbeckia fulgida	ORANGE CONEFLOWER	36770	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR		
Ruellia purshiana	PURSH'S WILD- PETUNIA	34388	Pounds, Patrick, and Hinkle 1989	G5	SNR	S1S2	SNR		
Salix humilis	TALL PRAIRIE WILLOW	22546	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR		
Salvia urticifolia	NETTLE-LEAF SAGE	32750	Pounds, Patrick, and Hinkle 1989	G5	S1	SNR	SNR		

	Plant Species of Con Scientific Name, Ran of Kentucky, Te	king, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Saxifraga michauxii	MICHAUX'S SAXIFRAGE	24284	Pounds, Patrick, and Hinkle 1989	G4G5	S2	SNR	SNR
Scirpus polyphyllus	LEAFY BULRUSH	40274	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Scutellaria incana	HOARY SKULLCAP	32770	NatureServe 2002/2003	G5	S5?	SNR	S2
Scutellaria serrata	SHOWY SKULLCAP	32778	Pounds, Patrick, and Hinkle 1989	G4G5	S3?	SNR	SNR
Senecio aureus	GOLDEN RAGWORT	36091	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Senecio smallii	SMALL'S RAGWORT	518137	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Silene ovata	OVATE CATCHFLY	20100	Pounds, Patrick, and Hinkle 1989	G2G3	S1	S2	S1
Silene rotundifolia	ROUNDLEAF CATCHFLY	20114	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S2
Silphium terebinthinaceum	PRAIRIE ROSINWEED	38411	Pounds, Patrick, and Hinkle 1988	G4G5	S4?	S1	S2
Silphium trifoliatum	THREE-LEAVED ROSINWEED	505235	Pounds, Patrick, and Hinkle 1989	G4?	S5	S3S4	SNR
Sisyrinchium albidum	WHITE BLUE-EYED GRASS	43241	NatureServe 2002/2003	G5?	S5	SNR	S2
Smilax hugeri	HUGER'S CARRION-FLOWER	505254	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNA
Smilax pulverulenta	DOWNY CARRION- FLOWER	505257	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR

	Plant Species of Cor Scientific Name, Ra of Kentucky, T	nking, and		ng to Nati	ureserve a		
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Solidago curtisii	CURTIS' GOLDENROD	36242	Pounds, Patrick, and Hinkle 1989	G4G5Q	S2S3	S4	SNR
Solidago flaccidifolia	APPALACHIAN GOLDEN-ROD	36255	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SU
Solidago patula	ROUNDLEAF GOLDENROD	36288	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S3S4
Solidago rigida var. rigida	STIFF GOLDENROD	524709	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S2
Solidago roanensis	ROAN MOUNTAIN GOLDENROD	36298	Pounds, Patrick, and Hinkle 1989	G4G5	S1S2	SNR	SNR
Solidago rugosa ssp. rugosa var. rugosa	ROUGH-LEAF GOLDENROD	531821	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Solidago sphacelata	AUTUMN GOLDENROD	36312	Pounds, Patrick, and Hinkle 1989	G4G5	S4	S4	SNR
Sphenopholis nitida	SHINY WEDGE GRASS	41281	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
Spiranthes ovalis	LESSER LADIES'- TRESSES	43451	Pounds, Patrick, and Hinkle 1989	G5	S4S5	S3	SNR
Tradescantia subaspera	ZIGZAG SPIDERWORT	39176	NatureServe 2002/2003	G5	S5?	SNR	S3
Trillium grandiflorum	LARGE- FLOWERED WAKEROBIN	43074	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
Trillium sulcatum	FURROWED WAKEROBIN	505594	Pounds, Patrick, and Hinkle 1989	G4	S5	S3	SNR

Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
Trillium undulatum	PAINTED TRILLIUM	43092	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
Triosteum aurantiacum	HORSE-GENTIAN	505596	Pounds, Patrick, and Hinkle 1989	G5	S5?	SNR	S3
Vaccinium erythrocarpum	SOUTHERN MOUNTAIN CRANBERRY	23593	Pounds, Patrick, and Hinkle 1989	G5	S1?	SNR	SNR
Verbesina virginica var. virginica	WHITE CROWNBEARD	530792	NatureServe 2002/2003	G5	SNR	SNR	S3
Viburnum rufidulum	RUSTY BLACKHAW	35274	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
Viola affinis	SAND VIOLET	22035	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S4
Viola rotundifolia	ROUNDLEAF VIOLET	22159	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Viola sagittata	ARROW-LEAVED VIOLET	22162	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
Vitis cinerea	PIGEON GRAPE	28615	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
Waldsteinia fragarioides	BARREN STRAWBERRY	505735	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
Woodwardia areolata	NETTED CHAINFERN	17749	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR

# STATE, FEDERAL AND NATURAL HERITAGE PROGRAM STATUS OF MAMMALS REPORTED FROM CUMBERLAND GAP NATIONAL HISTORICAL PARK<sup>1,2,3,4,5</sup>

Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status <sup>2</sup> / Rank	Federal Status <sup>3</sup>					
Allegheny woodrat	Neotoma magister	G3/G4	-	SOC					
Black bear	Ursus americanus	G5	KY: S	PS					
Eastern small-footed myotis	Myotis leibii	G3	KY: T TN: D/S2S3	SOC					
Eastern spotted skunk	Spilogale putorius	G5	KY: S TN: S3	-					
Eastern woodrat	Neotoma floridana	G5	TN:D/S3	-					
Gray bat	Myotis grisescens	G3	KY: T TN: E/S2 VA: SE	E					
Hoary bat	Lasiurus cinereus	G5	-	PS					
Indiana bat	Myotis sodalis	G2/LE	KY: E TN: E/S1 VA: SE	E					
Keen's Myotis	Myotis keenii	G2G3	-	-					
Kentucky Red-backed vole	Clethrionomys gapperi maurus	G5T3T4	KY: S	-					
Northern myotis	Myotis septentrionalis	G4	-	-					
Pygmy shrew	Sorex hoyi	G5	TN: S2	-					
Smoky shrew	Sorex fumeus	G5	TN: D/S4	-					
Southern bog Lemming	Synaptomys cooperi	G5	TN: D/S4	-					
Woodland Jumping Mouse	Napaeozapus insignis	G5	TN: D/S4	-					

- Indicatees species has no status

<sup>1</sup> List of species observed in park from Barbour et al. (1979)

<sup>2</sup> Natural Hertitage Program Status Information from NatureServe (2007)

<sup>3</sup> State lists of protected species obtained from:

KYDFW (2007): http://www.kdfwr.state.ky.us/kfwis/speciesInfo/speciesInfo.asp?lid=562&NavPath=C267 VDGIF (2007): http://www.dgif.virginia.gov/wildlife/virginiatescspecies.pdf); and

TNDEC (2007): (http://www.state.tn.us/environment/na/nhp.shtml)

<sup>4</sup> Status of Federally-listed species obtained from

USFWS (2007)( http://www.fws.gov/endangered/)

<sup>5</sup> Ranking definitions for state, federal and NHP lists:

State Ranking Definitions

# KY:

E – endangered; T - threatened; S - special concern; H - historic X – extirpated; N or Blank - none Note – the Cave Management Plan states that the Gray Bat (Myotis grisescens) may occur in the park, but Barbour et al. (1979) did not list this species as being present. The State of Kentucky records show this species present in Bell County in the Varilla quadrangle. This species is listed as E by the USFWS and T by the State of Kentucky and has therefore been added to this table.

# TN:

STATE RANK - The state rank of a species in Tennessee. Like the G\_rank this is a non-legal rank indicating the rarity and vulnerability of a species at the <u>state level</u>.

<b>S</b> 1	Extremely rare and critically imperiled in the state with five or fewer
51	occurrences, or very few remaining individuals, or because of some special condition where
	the species is particularly vulnerable to extinction
<b>S2</b>	Very rare and imperiled within the state, six to twenty occurrences, or few remaining
	individuals, or because of some factor(s) making it vulnerable to extinction
<b>S</b> 3	Rare and uncommon in the state, from 21-100 occurrences
S4	Widespread, abundant, and apparently secure within the state, but with cause for long-term concern
<b>S</b> 5	Demonstrably widespread and secure in the state
SH	Of historical occurrence in Tennessee, e.g. formally part of the established biota, with the
	expectation that it may be rediscovered
SU	Can not be ranked using available information
SX	Believed to be extirpated from the state
S#S#	Denotes a "range rank" because the rarity of the species is uncertain (e.g. \$1\$3)
S?, S_?	Unranked at this time or rank uncertain
SE	Exotic species established in the state
SE#	Exotic numeric (e.g. the Asian clam Corbicula fluminea would be SE5)
SP	Potentially occurring in Tennessee, but not yet documented by DNH
_N	Occurs in Tennessee in a non-breeding status (mostly applies to vertebrates)

# VA:

FE=Federal Endangered; FT=Federal Threatened; S/A=Similarity of Appearance; FC=Federal Candidate; SOC=Federal Species of Concern (not a legal status; list maintained by USFWS Virginia Field Office); SE=State Endangered; ST=State Threatened; SSC=State Special Concern (not a legal status).

# **US Fish and Wildlife Status Definitons**

E – Endangered; T – Threatened; C – Candidate; h - Historic (pre-1970); CH - Critical Habitat; PS - Indicates "partial status" status in only a portion of the species' range. Typically indicated in a "full" species record where at least one but not all of a species' infraspecific taxa or populations has U.S. ESA status.; PXN – Proposed Experimental Population; XN = Experimental population (source: USFWS 2007).

# 2007 Natural Heritage Program Abbreviations (NatureServe 2007)

Conservation status ranks are based on a one to five scale, ranging from critically imperiled (G1) to demonstrably secure (G5). Status is assessed and documented at three distinct geographic scales-global (G), national (N), and state/province (S). These status assessments are based on the best available information, and consider a variety of factors such as abundance, distribution, population trends, and threats.

#### 1 = critically imperiled

- 2 = imperiled
- 3 = vulnerable to extirpation or extinction
- 4 = apparently secure
- 5 = demonstrably widespread, abundant, and secure.

**? = Inexact or Uncertain**—Denotes inexact or uncertain numeric rank. (The ? qualifies the character immediately preceding it in the rank.)

**GX Presumed Extinct** (species) — Not located despite intensive searches and virtually no likelihood of rediscovery.

**Eliminated** (ecological communities)—Eliminated throughout its range, with no restoration potential due to extinction of dominant or characteristic species.

**GH Possibly Extinct** (species) — Missing; known from only historical occurrences but still some hope of rediscovery.

**Presumed Eliminated** — (Historic, ecological communities)-Presumed eliminated throughout its range, with no or virtually no likelihood that it will be rediscovered, but with the potential for restoration, for example, American Chestnut Forest.

**G1 Critically Imperiled** — At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

**G2 Imperiled** — At high risk of extinction due to very restricted range, very few

populations (often 20 or fewer), steep declines, or other factors.

**G3 Vulnerable** — At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

**G4 Apparently Secure** — Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5 Secure — Common; widespread and abundant.

T# Infraspecific Taxon (trinomial)—The status of infraspecific taxa (subspecies

or varieties) are indicated by a "T-rank" following the species' global rank.

PS - Implied Status under the U.S. Endangered Species Act (databases do not always match)

# STATE, FEDERAL AND NATURAL HERITAGE PROGRAM STATUS OF BIRDS REPORTED FROM CUMBERLAND GAP NATIONAL HISTORICAL PARK<sup>1,2,3,4,5</sup>

Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status / Rank <sup>2</sup>	Federal Status <sup>3</sup>
Bald eagle	Haliaeetus leucocephalus	G5	KY: T TN: D/S3 VA: ST	Delisted / Monitored
Blackburnian warbler	Dendroica fusca	G5	KY: T	-
Brown creeper	Certhia americana	G5	KY: E VA: SSC	-
Canada Warbler	Wilsonia canadensis	G5	KY: S	-
Cerulean warbler	Dendroica cerulea	G4	TN: D/S3B	SOC
Common raven	Corvus corax	G5	KY: T TN: T/S2	-
Connecticut warbler	Oporornis agilis	G4	-	-
Dark-eyed junco	Junco hyemalis	G5	KY: S	-
Golden eagle	Aquila chrysaetos	G5	TN: T/S1	-
Golden-crowned kinglet	Regulus satrapa	G5	VA: SSC	-
Golden-winged warbler	Vermivora chrysoptera	G5	KY: T VA: SSC	-
Great blue herron	Ardea herodias	G5	KY: S	-
Hermit thrush	Catharus guttatus	G5	VA: SSC	-
Least flycatcher	Empidonax minimus	G5	KY: E	-
Magnolia warbler	Dendroica magnolia	G5	VA: SSC	-
Mourning warbler	Oporornis philadelphia	G5	VA: SSC	-
Northern harrier	Circus cyaneus	G5	KY: T TN: D/S4N VA: SSC	-
Northern saw-whet owl	Aegolius acadicus	G5/PS⁵	TN: T/S1 VA: SSC	-
Olive-sided flycatcher	Contopus cooperi	G4	TN: D/S1	-
Osprey	Pandion haliaetus	G5	KY: T	

# STATE, FEDERAL AND NATURAL HERITAGE PROGRAM STATUS OF BIRDS REPORTED FROM CUMBERLAND GAP NATIONAL HISTORICAL PARK<sup>1,2,3,4,5</sup> (Continued)

				lacaj
Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status / Rank <sup>2</sup>	Federal Status <sup>3</sup>
Peregrine Falcon	Falco peregrinus	G4/PS⁵LE	KY: Delisted – (formerly endangered) TN: E/S1N VA: ST	Delisted
Purple Finch	Carpodacus purpureus	G5	VA: SSC	-
Red-breasted nuthatch	Sitta Canadensis	G5	KY: E VA: SSC	-
Red-cockaded woodpecker	Picoides borealis	G3/LE	-	E
Rose-breasted Grosbeak	Pheucticus Iudovicianus	G5	KY: S	-
Sharp-shinned Hawk	Accipiter striatus	G5/PS⁵	KY: S TN:D/S3B	PS
Swainson's warbler	Limnothlypis swainsonii	G4	TN: D/S3	-
Yellow-bellied Sapsucker	Sphyrapicus varius	G5	TN: D/S1B, S4N	-

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<sup>1</sup>List of species observed in park from Barbour et al. (1979)

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KY:

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#### State Status

E- Endangered: Any species or subspecies of wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely to become so within the foreseeable future

T- Threatened: Any species or subspecies of wildlife that is likely to become an endangered species within the foreseeable future

D- Deemed in need of management: Any species or subspecies of nongame wildlife which the executive directore of the TWRA believes should be investigated in order to develop information relating to populations, distribution, habitat needs, limiting factors, and other biological and ecological data to determine management measures necessary for their continued ability to sustain themselves successfully. This category is analogous to "Special Concern."

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**G1 Critically Imperiled** — At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

**G2 Imperiled** — At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.

**G3 Vulnerable** — At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.

**G4 Apparently Secure** — Uncommon but not rare; some cause for long-term concern due to declines or other factors.

**G5 Secure** — Common: widespread and abundant.

T# Infraspecific Taxon (trinomial)—The status of infraspecific taxa (subspecies

or varieties) are indicated by a "T-rank" following the species' global rank.

PS - Implied Status under the U.S. Endangered Species Act (databases do not always match)

STATE, FEDERAL AND NATURAL HERITAGE PROGRAM STATUS OF AMPHIBIANS AND REPTILES REPORTED FROM CUMBERLAND GAP NATIONAL HISTORICAL PARK <sup>1,2,3,4,5</sup>						
Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status <sup>2</sup> / Rank	Federal Status <sup>3</sup>		
Black Mountain Salamander	Desmognathus welteri	G4	TN: D/S3	-		
Cumberland Plateau Salamander	Plethodon kentucki	G4	-	-		
Four-Toed Salamander	Hemidactylium scutatum	G5	TN: D/S3	-		
Green Frog	Rana clamitans melanota	G5T5	KY: S	-		
Green Salamander	Aneides aeneus	G3G4	-	-		
Timber Rattlesnake	Crotalus horridus	G4	-	-		

- Indicatees species has no status

<sup>1</sup>List of species observed in park from Meade 2003

<sup>2</sup> Natural Hertitage Program Status Information from NatureServe (2007)

<sup>3</sup> State lists of protected species obtained from:

KYDFW (2007): http://www.kdfwr.state.ky.us/kfwis/speciesInfo/speciesInfo.asp?lid=562&NavPath=C267 VDGIF (2007): http://www.dgif.virginia.gov/wildlife/virginiatescspecies.pdf TNDEC (2007): http://www.state.tn.us/environment/na/nhp.shtml

<sup>4</sup> Status of Federally-listed species obtained from USFWS (2007)( http://www.fws.gov/endangered/)

<sup>5</sup> Ranking definitions for state, federal and NHP lists:

State Ranking Definitions

KY:

E – endangered; T - threatened; S - special concern; H - historic X – extirpated; N or Blank - none

TN:

STATE RANK - The state rank of a species in Tennessee. Like the G\_rank this is a non-legal rank indicating the rarity and vulnerability of a species at the <u>state level</u>.

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S1	Extremely rare and critically imperiled in the state with five or fewer occurrences, or very few remaining individuals, or because of some special condition where the species is particularly vulnerable to extinction
S2	Very rare and imperiled within the state, six to twenty occurrences, or few remaining individuals, or because of some factor(s) making it vulnerable to extinction
<b>S</b> 3	Rare and uncommon in the state, from 21-100 occurrences
<b>S</b> 4	Widespread, abundant, and apparently secure within the state, but with cause for long-term concern
<b>S</b> 5	Demonstrably widespread and secure in the state
SH	Of historical occurrence in Tennessee, e.g. formally part of the established biota, with the expectation that it may be rediscovered
SU	Can not be ranked using available information
SX	Believed to be extirpated from the state
S#S#	Denotes a "range rank" because the rarity of the species is uncertain (e.g. \$1\$3)
S?, S_?	Unranked at this time or rank uncertain
SE	Exotic species established in the state
SE#	Exotic numeric (e.g. the Asian clam Corbicula fluminea would be SE5)
SP	Potentially occurring in Tennessee, but not yet documented by DNH
_N	Occurs in Tennessee in a non-breeding status (mostly applies to vertebrates)

#### State Status

E- Endangered: Any species or subspecies of wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely to become so within the foreseeable future

T- Threatened: Any species or subspecies of wildlife that is likely to become an endangered species within the foreseeable future

D- Deemed in need of management: Any species or subspecies of nongame wildlife which the executive directore of the TWRA believes should be investigated in order to develop information relating to populations, distribution, habitat needs, limiting factors, and other biological and ecological data to determine management measures necessary for their continued ability to sustain themselves successfully. This category is analogous to "Special Concern."

#### VA:

FE=Federal Endangered; FT=Federal Threatened; S/A=Similarity of Appearance; FC=Federal Candidate; SOC=Federal Species of Concern (not a legal status; list maintained by USFWS Virginia Field Office); SE=State Endangered; ST=State Threatened; SSC=State Special Concern (not a legal status).

#### **US Fish and Wildlife Status Definitions**

E – Endangered; T – Threatened; C – Candidate; h - Historic (pre-1970); CH - Critical Habitat; PS - Indicates "partial status" status in only a portion of the species' range. Typically indicated in a "full" species record where at least one but not all of a species' infraspecific taxa or populations has U.S. ESA status.; PXN – Proposed Experimental Population; XN = Experimental population (source: USFWS 2007).

#### 2007 Natural Heritage Program Abbreviations (NatureServe 2007)

Conservation status ranks are based on a one to five scale, ranging from critically imperiled (G1) to demonstrably secure (G5). Status is assessed and documented at three distinct geographic scales-global (G), national (N), and state/province (S). These status assessments are based on the best available information, and consider a variety of factors such as abundance, distribution, population trends, and threats.

1 = critically imperiled

- 2 = imperiled
- 3 = vulnerable to extirpation or extinction
- 4 = apparently secure

5 = demonstrably widespread, abundant, and secure.

**? = Inexact or Uncertain**—Denotes inexact or uncertain numeric rank. (The ? qualifies the character immediately preceding it in the rank.)

**GX Presumed Extinct** (species) — Not located despite intensive searches and virtually no likelihood of rediscovery.

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PS - Implied Status under the U.S. Endangered Species Act (databases do not always match)

Brook silverside

Silverjaw minnow

VA: SSC

TN: T/S1

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STATE, FEDERAL AND NATURAL HERITAGE PROGRAM STATUS OF FISH REPORTED FROM CUMBERLAND GAP NATIONAL HISTORICAL PARK <sup>1,2,3,4,5</sup>							
Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status <sup>2</sup> / Rank	Federal Status <sup>3</sup>			
Blackside dace	Phoxinus cumberlandensis Starnes and Starnes	G2/LT	KY: T TN: T/S2 VA: ST	Т			

G5

G5

- Indicatees species has no status

<sup>1</sup> List of species observed in park from Barbour et al. (1979)

(Cope)

# <sup>2</sup> Natural Hertitage Program Status Information from NatureServe (2007)

Labidesthes sicculus

Ericymba buccata Cope

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# **State Ranking Definitions**

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Widespread, abundant, and apparently secure within the state, but with cause for long-term concern
Demonstrably widespread and secure in the state
Of historical occurrence in Tennessee, e.g. formally part of the established biota, with the expectation that it may be rediscovered
Can not be ranked using available information
Believed to be extirpated from the state
Denotes a "range rank" because the rarity of the species is uncertain (e.g. S1S3)
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