

**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 Ranks (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

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							
Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
<i>Acer pensylvanicum</i>	STRIPED MAPLE	28754	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Acorus americanus</i>	SWEETFLAG	182561	Pounds, Patrick, and Hinkle 1989	G5	S4	SNA	SNR
<i>Acorus calamus</i>	SWEETFLAG	42523	Pounds, Patrick, and Hinkle 1989	G4?	S4	SNR	SNR
<i>Adiantum pedatum</i>	NORTHERN MAIDENHAIR-FERN	17311	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Adlumia fungosa</i>	CLIMBING FUMITORY	18897	Pounds, Patrick, and Hinkle 1989	G4	S1	S2	S3
<i>Agalinis tenuifolia</i>	SLENDER FALSE-FOXGLOVE	33036	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Ageratina aromatica</i>	LESSER SNAKEROOT	36467	Pounds, Patrick, and Hinkle 1989	G4G5	S4	SNR	SNR
<i>Agrimonia gryposepala</i>	TALL HAIRY GROOVBUR	25095	Pounds, Patrick, and Hinkle 1989	G5	S1S2	SNR	SNR
<i>Agrostis hyemalis</i>	WINTER BENTGRASS	40394	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Agrostis perennans</i>	PERENIAL BENTGRASS	40423	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Alisma subcordatum</i>	BROAD-LEAVED WATER-PLANTAIN	38895	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR
<i>Allium cernuum</i>	NODDING ONION	42721	Pounds, Patrick, and Hinkle 1989	G5	S3S4	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
<i>Allium tricoccum</i>	WILD LEEK	42672	Pounds, Patrick, and Hinkle 1989	G5	S4	S1S2	SNR
<i>Amianthium muscitoxicum</i>	FLY-POISON	42775	Pounds, Patrick, and Hinkle 1989	G4G5	S1S2	SNR	SNR
<i>Anemone quinquefolia</i>	WOOD ANEMONE	18448	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Angelica venenosa</i>	HAIRY ANGELICA	29453	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Antennaria solitaria</i>	SINGLE-HEAD PUSSYTOES	36756	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Aplectrum hyemale</i>	PUTTYROOT	43489	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4S5
<i>Arabis canadensis</i>	SICKLEPOD	22678	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Arabis lyrata</i>	LYRE-LEAF ROCKCRESS	22672	NatureServe 2002/2003	G5	S3?	SNR	SNR
<i>Aralia nudicaulis</i>	WILD SARSAPARILLA	29376	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
<i>Aralia racemosa</i>	AMERICAN SPIKENARD	29377	Pounds, Patrick, and Hinkle 1989	G4G5	S4	SNR	SNR
<i>Arisaema dracontium</i>	GREEN DRAGON	42529	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Aristolochia macrophylla</i>	PIPEVINE	18336	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
<i>Aristolochia serpentaria</i>	VIRGINIA SNAKEROOT	18342	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNR
<i>Aruncus dioicus</i>	COMMON GOATSBEARD	25130	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SU
<i>Asclepias exaltata</i>	POKE MILKWEED	30266	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asclepias quadrifolia</i>	WHORLED MILKWEED	30297	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asclepias variegata</i>	WHITE MILKWEED	30319	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asclepias verticillata</i>	WHORLED MILKWEED	30320	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Asclepias viridiflora</i>	GREEN MILKWEED	30322	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asplenium montanum</i>	MOUNTAIN SPLEENWORT	17351	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Asplenium pinnatifidum</i>	LOBED SPLEENWORT	17354	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
<i>Asplenium resiliens</i>	BLACK-STEM SPLEENWORT	17358	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asplenium ruta-muraria</i>	WALLRUE SPLEENWORT	192107	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Asplenium trichomanes</i>	MAIDENHAIR SPLEENWORT	17364	Pounds, Patrick, and Hinkle 1989	G5	S4	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
<i>Aster acuminatus</i>	WHORLED ASTER	35521	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR
<i>Aster infirmus</i>	CORNEL-LEAF ASTER	35591	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Aster laevis var. concinnus</i>	SMOOTH BLUE ASTER	193140	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3
<i>Aster oblongifolius</i>	AROMATIC ASTER	35615	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4
<i>Aster surculosus</i>	MICHAUX'S WOOD ASTER	35662	Pounds, Patrick, and Hinkle 1989	G4G5	S5	SNR	S1
<i>Aureolaria pedicularia</i>	FERNLEAF YELLOW FALSE-FOXGLOVE	33489	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
<i>Blephilia ciliata</i>	DOWNY WOODMINT	32460	NatureServe 2002/2003	G5	S4	SNR	SNR
<i>Blephilia hirsuta</i>	HAIRY WOODMINT	32461	Pounds, Patrick, and Hinkle 1988	G5?	S5?	SNR	S3
<i>Boykinia aconitifolia</i>	BROOK SAXIFRAGE	24314	Pounds, Patrick, and Hinkle 1989	G4	S2	SNR	SNR
<i>Brickellia eupatorioides</i>	FALSE BONESET	36875	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Calamagrostis porteri</i>	PORTER'S REEDGRASS	40562	Pounds, Patrick, and Hinkle 1989	G4	S2	S1	S3S4
<i>Callitriche heterophylla</i>	LARGE WATER-STARWORT	32053	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
<i>Cardamine diphylla</i>	TWO-LEAF TOOTHWORT	22792	Pounds, Patrick, and Hinkle 1989	G5	S5	S3S4	S3
<i>Cardamine rotundifolia</i>	ROUND-LEAF WATER CRESS	22810	Pounds, Patrick, and Hinkle 1989	G4	S3S4	S2S3	S4
<i>Carex abscondita</i>	THICKET SEDGE	39475	BONAP County Database	G4G5	S3S4	SNR	SNR
<i>Carex appalachica</i>	APPALACHIAN SEDGE	39497	NatureServe 2002/2003	G4	S2?	S1	S4
<i>Carex atlantica ssp. atlantica</i>	PRICKLY BOG SEDGE	523747	NatureServe 2002/2003	G5	S4?	SNR	SNR
<i>Carex austrocaroliniana</i>	TARHEEL SEDGE	39514	Pounds, Patrick, and Hinkle 1989	G4	S3	S2S3	SNR
<i>Carex baileyi</i>	BAILEY'S SEDGE	39376	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
<i>Carex bromoides</i>	BROMELIKE SEDGE	39380	NatureServe 2002/2003	G5	S4?	SNR	SNR
<i>Carex careyana</i>	CAREY'S SEDGE	39541	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S3
<i>Carex debilis var. pubera</i>	WHITE EDGE SEDGE	527086	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Carex interior</i>	INLAND SEDGE	39652	NatureServe 2002/2003	G5	SNR	SNR	S1
<i>Carex laxiculmis</i>	SPREADING SEDGE	39411	NatureServe 2002/2003	G5	S3S4	SNR	SNR
<i>Carex laxiflora</i>	LOOSE-FLOWERED SEDGE	39662	Pounds, Patrick, and Hinkle 1989	G5	S5	S4	SNR
<i>Carex leptalea</i>	BRISTLY-STALK SEDGE	39669	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Carex lucorum</i>	BLUE RIDGE	501241	Pounds,	G4	S5	SNR	S2



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	SEDGE		Patrick, and Hinkle 1989				
<i>Carex nigromarginata</i>	BLACK EDGE SEDGE	39719	NatureServe 2002/2003	G5	S4?	SNR	SNR
<i>Carex normalis</i>	GREATER STRAW SEDGE	39720	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Carex purpurifera</i>	PURPLE SEDGE	39776	Pounds, Patrick, and Hinkle 1989	G4?	S3S4	S3	S2
<i>Carex radiata</i>	STELLATE SEDGE	39778	Pounds, Patrick, and Hinkle 1989	G4	S2?	SNA	SNR
<i>Carex striatula</i>	LINED SEDGE	39822	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	SNR
<i>Carex styloflexa</i>	BENT SEDGE	39823	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	SNR
<i>Carya alba</i>	MOCKERNUT HICKORY	501306	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Carya ovalis</i>	RED HICKORY	19241	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Carya pallida</i>	SAND HICKORY	19244	NatureServe 2002/2003	G5	S4	SNR	SNR
<i>Castanea dentata</i>	AMERICAN CHESTNUT	19454	Pounds, Patrick, and Hinkle 1989	G4	S1?	S2S3	SNR
<i>Castanea pumila</i>	ALLEGHENY CHINQUAPIN	19457	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
<i>Caulophyllum thalictroides</i>	BLUE COHOSH	18840	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR
<i>Chamaelirium luteum</i>	DEVIL'S-BIT	42894	Pounds, Patrick, and	G5	S4	SNR	SNR

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
			Hinkle 1989				
<i>Cheilanthes alabamensis</i>	ALABAMA LIPFERN	17434	Pounds, Patrick, and Hinkle 1989	G4G5	SH	SNR	S1
<i>Chelone glabra</i>	WHITE TURTLEHEAD	33182	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Chrysopsis mariana</i>	MARYLAND GOLDEN ASTER	202495	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Cinna latifolia</i>	SLENDER WOOD REEDGRASS	40584	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S3
<i>Cirsium muticum</i>	SWAMP THISTLE	36387	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Clematis catesbyana</i>	SATINCURLS	18691	NatureServe 2002/2003	G4G5	SH	SNR	S1
<i>Clematis viorna</i>	VASE-VINE LEATHERFLOWER	18715	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Clitoria mariana</i>	MARYLAND BUTTERFLY-PEA	26542	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Cocculus carolinus</i>	CAROLINA CORALBEAD	18864	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S1

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
<i>Convallaria montana</i>	AMERICAN LILY-OF-THE-VALLEY	511293	Pounds, Patrick, and Hinkle 1989	G4	S1	SNA	SNR
<i>Corallorrhiza odontorhiza</i>	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
<i>Corallorrhiza wisteriana</i>	SPRING CORALROOT	43528	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
<i>Corydalis sempervirens</i>	PALE CORYDALIS	19010	Pounds, Patrick, and Hinkle 1989	G4G5	S3?	S1S2	SNR
<i>Crataegus calpodendron</i>	PEAR HAWTHORN	24547	NatureServe 2002/2003	G5	S4?	SNR	S1
<i>Crataegus uniflora</i>	DWARF HAWTHORN	24608	NatureServe 2002/2003	G5	S3?	SNR	SNR
<i>Croton monanthogynus</i>	PRAIRIE TEA	28283	NatureServe 2002/2003	G5	S5	SNR	S3
<i>Cypripedium acaule</i>	PINK LADY'S-SLIPPER	43534	Pounds, Patrick, and Hinkle 1989	G5	S4	S4	S5
<i>Cypripedium parviflorum</i>	SMALL YELLOW LADY'S-SLIPPER	501943	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
<i>Cypripedium pubescens</i>	LARGE YELLOW LADY'S-SLIPPER	501945	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Danthonia compressa</i>	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
<i>Dennstaedtia punctilobula</i>	EASTERN HAY-SCENTED FERN	17491	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Deschampsia flexuosa</i>	WAVY HAIRGRASS	40595	NatureServe 2002/2003	G5	S2	SNR	SNR
<i>Diarrhena americana</i>	AMERICAN BEAKGRAIN	41644	Pounds, Patrick, and Hinkle 1989	G4?	S5	SNR	S3
<i>Diplazium pycnocarpon</i>	GLADE FERN	502095	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Disporum maculatum</i>	NODDING MANDRIN	42920	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	S3
<i>Dryopteris goldiana</i>	GOLDIE'S WOODFERN	17537	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
<i>Elephantopus tomentosus</i>	TOBACCOWEED	37300	Pounds, Patrick, and Hinkle 1989	G5	S3	SNR	SNR
<i>Elymus canadensis</i>	NODDING WILD-RYE	40683	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S2?
<i>Epilobium coloratum</i>	PURPLE-LEAF WILLOW-HERB	27298	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Eryngium yuccifolium</i>	RATTLESNAKE-MASTER	29506	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S2
<i>Eupatorium incarnatum</i>	PINK THOROUGHWORT	502514	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S2
<i>Euphorbia mercurialina</i>	MERCURY SPURGE	28101	Pounds, Patrick, and Hinkle 1989	G4	S1S2	SNR	SNA

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

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Latin Name	CommonName	TSN #	Data Source	Rank	Rank KY	Rank TN	Rank VA
<i>Hieracium scabrum</i>	ROUGH HAWKWEED	37727	Pounds, Patrick, and Hinkle 1989	G5	S4	S2	SNR
<i>Hieracium venosum</i>	RATTLESNAKE HAWKWEED	37734	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Huperzia porophila</i>	ROCK CLUBMOSS	503084	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S1
<i>Hydrastis canadensis</i>	GOLDEN-SEAL	18781	Pounds, Patrick, and Hinkle 1989	G4	S4	S3	S3
<i>Hydrophyllum macrophyllum</i>	LARGELEAF WATERLEAF	31393	NatureServe 2002/2003	G5	S5	S4S5	S3
<i>Ilex ambigua</i>	CAROLINA HOLLY	27987	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Iris cristata</i>	CRESTED DWARF IRIS	43204	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Isotria verticillata</i>	LARGE WHORLED POGONIA	43615	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	S5
<i>Juglans cinerea</i>	BUTTERNUT	19250	Pounds, Patrick, and Hinkle 1989	G3G4	S3	S3	S3?
<i>Juncus interior</i>	INLAND RUSH	39280	NatureServe 2002/2003	G4G5	S4?	SNR	SNR
<i>Juncus subcaudatus</i>	WOODS-RUSH	39316	Pounds, Patrick, and Hinkle 1989	G5	S1?	SNR	SNR
<i>Krigia biflora</i>	TWO-FLOWERED DWARF DANDELION	37810	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S4
<i>Krigia virginica</i>	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
<i>Kyllinga brevifolioides</i>	PASTURE FLATSEDEGE	515529	Pounds, Patrick, and Hinkle 1989	GNR	S3?	SNA	SNA
<i>Lactuca canadensis</i>	CANADA LETTUCE	36596	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Lathyrus venosus</i>	SMOOTH VEINY PEAVINE	25886	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR
<i>Lemna minor</i>	LESSER DUCKWEED	42590	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Lespedeza frutescens</i>	WAND BUSH-CLOVER	575841	NatureServe 2002/2003	G5	S4S5	SNR	SNR
<i>Lespedeza intermedia</i>	WAND BUSH-CLOVER	25903	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Lespedeza procumbens</i>	TRAILING BUSH-CLOVER	25907	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Lespedeza repens</i>	CREEPING BUSH-CLOVER	503402	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Liatris aspera</i>	TALL GAY-FEATHER	37909	Pounds, Patrick, and Hinkle 1989	G4G5	S3S4	SNR	S3
<i>Ligusticum canadense</i>	LOVAGE	29528	Pounds, Patrick, and Hinkle 1989	G4	S4	SNR	SNR
<i>Lilium canadense</i>	CANADA LILY	42732	NatureServe 2002/2003	G5	S4?	S3	SNR
<i>Linum virginianum</i>	VIRGINIA FLAX	29202	Pounds, Patrick, and Hinkle 1989	G4G5	S4S5	SNR	SNR
<i>Liparis liliifolia</i>	LARGE TWAYBLADE	43622	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	S5

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



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

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
<i>Panicum anceps</i>	BEAKED PANIC GRASS	40904	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Panicum dichotomiflorum</i>	FALL PANIC GRASS	40908	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Paronychia argyrocoma</i>	SILVERY NAILWORT	20321	Pounds, Patrick, and Hinkle 1989	G4	S1	S1S2	S4
<i>Paronychia canadensis</i>	FORKED NAILWORT	20325	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Paspalum pubiflorum</i>	HAIRY-SEED PASPALUM	40994	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Pellaea atropurpurea</i>	PURPLE-STEM CLIFF-BRAKE	17641	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Phacelia bipinnatifida</i>	FERNLEAF PHACELIA	31459	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
<i>Phacelia purshii</i>	MIAMI-MIST	504279	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
<i>Phaseolus polystachios</i>	WILD KIDNEY BEAN	504291	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNR
<i>Philadelphus hirsutus</i>	STREAMBANK MOCK-ORANGE	24427	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3
<i>Phlox amplifolia</i>	LARGE-LEAVED PHLOX	30911	Pounds, Patrick, and Hinkle 1989	G3G5	S4S5	SNR	S2
<i>Photinia melanocarpa</i>	BLACK CHOKEBERRY	565397	NatureServe 2002/2003	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
<i>Pinus rigida</i>	PITCH PINE	183376	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Platanthera ciliaris</i>	YELLOW FRINGED ORCHID	43413	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S3S4
<i>Platanthera clavellata</i>	SMALL GREEN WOODLAND ORCHID	43423	Pounds, Patrick, and Hinkle 1989	G5	S4	S4?	S5
<i>Platanthera flava</i>	PALE GREEN ORCHID	43414	Pounds, Patrick, and Hinkle 1989	G4	S4?	SNR	S3
<i>Platanthera lacera</i>	GREEN FRINGED ORCHID	43430	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	S3S4
<i>Pleopeltis polypodioides</i>	RESURRECTION FERN	504451	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Poa alsodes</i>	GROVE BLUEGRASS	41104	NatureServe 2002/2003	G4G5	S4S5	SNR	S3
<i>Polygala senega</i>	SENECA SNAKEROOT	29316	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
<i>Polygonum arifolium</i>	HALBERD-LEAF TEARTHUMB	20849	Pounds, Patrick, and Hinkle 1989	G5	S4?	S1	SNR
<i>Polypodium virginianum</i>	ROCK POLYPODY	17242	Pounds, Patrick, and Hinkle 1989	G5	S5	S4S5	SNR
<i>Porteranthus trifolius</i>	BOWMAN'S-ROOT	25285	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
<i>Potentilla norvegica</i>	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
<i>Ranunculus allegheniensis</i>	ALLEGHENY MOUNTAIN BUTTERCUP	18586	NatureServe 2002/2003	G4G5	S3S4	S1	SNR
<i>Rhododendron catawbiense</i>	CATAWBA RHODODENDRON	23714	Pounds, Patrick, and Hinkle 1989	G5	S2S3	SNR	SNR
<i>Rhododendron cumberlandense</i>	CUMBERLAND RHODODENDRON	504750	Pounds, Patrick, and Hinkle 1989	G4?	SNR	S3	S3
<i>Rhododendron minus</i>	CAROLINA RHODODENDRON	23722	NatureServe 2002/2003	G4	SNA	S2	SNR
<i>Rhododendron prinophyllum</i>	EARLY AZALEA	23727	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Robinia hispida</i> var. <i>rosea</i>	BRISTLY LOCUST	530084	BONAP County Database	G4	S2S3	SNR	SNR
<i>Rosa setigera</i>	PRAIRIE ROSE	24839	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S1
<i>Rosa virginiana</i>	VIRGINIA ROSE	24810	Pounds, Patrick, and Hinkle 1989	G5	SNA	SH	S3
<i>Rubus odoratus</i>	PURPLE FLOWERING RASPBERRY	24997	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SNR
<i>Rudbeckia fulgida</i>	ORANGE CONEFLOWER	36770	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Ruellia purshiana</i>	PURSH'S WILD-PETUNIA	34388	Pounds, Patrick, and Hinkle 1989	G5	SNR	S1S2	SNR
<i>Salix humilis</i>	TALL PRAIRIE WILLOW	22546	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Salvia urticifolia</i>	NETTLE-LEAF SAGE	32750	Pounds, Patrick, and Hinkle 1989	G5	S1	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
<i>Saxifraga michauxii</i>	MICHAUX'S SAXIFRAGE	24284	Pounds, Patrick, and Hinkle 1989	G4G5	S2	SNR	SNR
<i>Scirpus polyphyllus</i>	LEAFY BULRUSH	40274	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Scutellaria incana</i>	HOARY SKULLCAP	32770	NatureServe 2002/2003	G5	S5?	SNR	S2
<i>Scutellaria serrata</i>	SHOWY SKULLCAP	32778	Pounds, Patrick, and Hinkle 1989	G4G5	S3?	SNR	SNR
<i>Senecio aureus</i>	GOLDEN RAGWORT	36091	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Senecio smallii</i>	SMALL'S RAGWORT	518137	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Silene ovata</i>	OVATE CATCHFLY	20100	Pounds, Patrick, and Hinkle 1989	G2G3	S1	S2	S1
<i>Silene rotundifolia</i>	ROUNDLEAF CATCHFLY	20114	Pounds, Patrick, and Hinkle 1989	G4	S5	SNR	S2
<i>Silphium terebinthinaceum</i>	PRAIRIE ROSINWEED	38411	Pounds, Patrick, and Hinkle 1988	G4G5	S4?	S1	S2
<i>Silphium trifoliatum</i>	THREE-LEAVED ROSINWEED	505235	Pounds, Patrick, and Hinkle 1989	G4?	S5	S3S4	SNR
<i>Sisyrinchium albidum</i>	WHITE BLUE-EYED GRASS	43241	NatureServe 2002/2003	G5?	S5	SNR	S2
<i>Smilax hugeri</i>	HUGER'S CARRION-FLOWER	505254	Pounds, Patrick, and Hinkle 1989	G4	S4S5	SNR	SNA
<i>Smilax pulverulenta</i>	DOWNY CARRION-FLOWER	505257	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	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
<i>Solidago curtisii</i>	CURTIS' GOLDENROD	36242	Pounds, Patrick, and Hinkle 1989	G4G5Q	S2S3	S4	SNR
<i>Solidago flaccidifolia</i>	APPALACHIAN GOLDEN-ROD	36255	Pounds, Patrick, and Hinkle 1989	G5	S4?	SNR	SU
<i>Solidago patula</i>	ROUNDLEAF GOLDENROD	36288	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S3S4
<i>Solidago rigida</i> var. <i>rigida</i>	STIFF GOLDENROD	524709	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	S2
<i>Solidago roanensis</i>	ROAN MOUNTAIN GOLDENROD	36298	Pounds, Patrick, and Hinkle 1989	G4G5	S1S2	SNR	SNR
<i>Solidago rugosa</i> ssp. <i>rugosa</i> var. <i>rugosa</i>	ROUGH-LEAF GOLDENROD	531821	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Solidago sphacelata</i>	AUTUMN GOLDENROD	36312	Pounds, Patrick, and Hinkle 1989	G4G5	S4	S4	SNR
<i>Sphenopholis nitida</i>	SHINY WEDGE GRASS	41281	Pounds, Patrick, and Hinkle 1989	G5	S4S5	SNR	SNR
<i>Spiranthes ovalis</i>	LESSER LADIES'-TRESSES	43451	Pounds, Patrick, and Hinkle 1989	G5	S4S5	S3	SNR
<i>Tradescantia subaspera</i>	ZIGZAG SPIDERWORT	39176	NatureServe 2002/2003	G5	S5?	SNR	S3
<i>Trillium grandiflorum</i>	LARGE-FLOWERED WAKEROBIN	43074	Pounds, Patrick, and Hinkle 1989	G5	S4	SNR	SNR
<i>Trillium sulcatum</i>	FURROWED WAKEROBIN	505594	Pounds, Patrick, and Hinkle 1989	G4	S5	S3	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
<i>Trillium undulatum</i>	PAINTED TRILLIUM	43092	Pounds, Patrick, and Hinkle 1989	G5	S2	SNR	SNR
<i>Triosteum aurantiacum</i>	HORSE-GENTIAN	505596	Pounds, Patrick, and Hinkle 1989	G5	S5?	SNR	S3
<i>Vaccinium erythrocarpum</i>	SOUTHERN MOUNTAIN CRANBERRY	23593	Pounds, Patrick, and Hinkle 1989	G5	S1?	SNR	SNR
<i>Verbesina virginica</i> var. <i>virginica</i>	WHITE CROWNBEARD	530792	NatureServe 2002/2003	G5	SNR	SNR	S3
<i>Viburnum rufidulum</i>	RUSTY BLACKHAW	35274	Pounds, Patrick, and Hinkle 1989	G5	S5	SNR	S3
<i>Viola affinis</i>	SAND VIOLET	22035	Pounds, Patrick, and Hinkle 1989	G5	SNR	SNR	S4
<i>Viola rotundifolia</i>	ROUNDLEAF VIOLET	22159	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Viola sagittata</i>	ARROW-LEAVED VIOLET	22162	Pounds, Patrick, and Hinkle 1989	G5	S3?	SNR	SNR
<i>Vitis cinerea</i>	PIGEON GRAPE	28615	Pounds, Patrick, and Hinkle 1989	G4G5	S4?	SNR	SNR
<i>Waldsteinia fragarioides</i>	BARREN STRAWBERRY	505735	Pounds, Patrick, and Hinkle 1989	G5	S3S4	SNR	SNR
<i>Woodwardia areolata</i>	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	<i>Neotoma magister</i>	G3/G4	-	SOC
Black bear	<i>Ursus americanus</i>	G5	KY: S	PS
Eastern small-footed myotis	<i>Myotis leibii</i>	G3	KY: T TN: D/S2S3	SOC
Eastern spotted skunk	<i>Spilogale putorius</i>	G5	KY: S TN: S3	-
Eastern woodrat	<i>Neotoma floridana</i>	G5	TN:D/S3	-
Gray bat	<i>Myotis grisescens</i>	G3	KY: T TN: E/S2 VA: SE	E
Hoary bat	<i>Lasiurus cinereus</i>	G5	-	PS
Indiana bat	<i>Myotis sodalis</i>	G2/LE	KY: E TN: E/S1 VA: SE	E
Keen's Myotis	<i>Myotis keenii</i>	G2G3	-	-
Kentucky Red-backed vole	<i>Clethrionomys gapperi maurus</i>	G5T3T4	KY: S	-
Northern myotis	<i>Myotis septentrionalis</i>	G4	-	-
Pygmy shrew	<i>Sorex hoyi</i>	G5	TN: S2	-
Smoky shrew	<i>Sorex fumeus</i>	G5	TN: D/S4	-
Southern bog Lemming	<i>Synaptomys cooperi</i>	G5	TN: D/S4	-
Woodland Jumping Mouse	<i>Napaeozapus insignis</i>	G5	TN: D/S4	-

- Indicates species has no status

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

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

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

KYDFW (2007): <http://www.kdfr.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 state level.

<b>S1</b>	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
<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>S3</b>	Rare and uncommon in the state, from 21-100 occurrences
<b>S4</b>	Widespread, abundant, and apparently secure within the state, but with cause for long-term concern
<b>S5</b>	Demonstrably widespread and secure in the state
<b>SH</b>	Of historical occurrence in Tennessee, e.g. formally part of the established biota, with the expectation that it may be rediscovered
<b>SU</b>	Can not be ranked using available information
<b>SX</b>	Believed to be extirpated from the state
<b>S#S#</b>	Denotes a “range rank” because the rarity of the species is uncertain (e.g. S1S3)
<b>S?, S_?</b>	Unranked at this time or rank uncertain
<b>SE</b>	Exotic species established in the state
<b>SE#</b>	Exotic numeric (e.g. the Asian clam <i>Corbicula fluminea</i> would be SE5)
<b>SP</b>	Potentially occurring in Tennessee, but not yet documented by DNH
<b>_N</b>	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 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.

**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# Intraspecific 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	<i>Haliaeetus leucocephalus</i>	G5	KY: T TN: D/S3 VA: ST	Delisted / Monitored
Blackburnian warbler	<i>Dendroica fusca</i>	G5	KY: T	-
Brown creeper	<i>Certhia americana</i>	G5	KY: E VA: SSC	-
Canada Warbler	<i>Wilsonia canadensis</i>	G5	KY: S	-
Cerulean warbler	<i>Dendroica cerulea</i>	G4	TN: D/S3B	SOC
Common raven	<i>Corvus corax</i>	G5	KY: T TN: T/S2	-
Connecticut warbler	<i>Oporornis agilis</i>	G4	-	-
Dark-eyed junco	<i>Junco hyemalis</i>	G5	KY: S	-
Golden eagle	<i>Aquila chrysaetos</i>	G5	TN: T/S1	-
Golden-crowned kinglet	<i>Regulus satrapa</i>	G5	VA: SSC	-
Golden-winged warbler	<i>Vermivora chrysoptera</i>	G5	KY: T VA: SSC	-
Great blue heron	<i>Ardea herodias</i>	G5	KY: S	-
Hermit thrush	<i>Catharus guttatus</i>	G5	VA: SSC	-
Least flycatcher	<i>Empidonax minimus</i>	G5	KY: E	-
Magnolia warbler	<i>Dendroica magnolia</i>	G5	VA: SSC	-
Mourning warbler	<i>Oporornis philadelphia</i>	G5	VA: SSC	-
Northern harrier	<i>Circus cyaneus</i>	G5	KY: T TN: D/S4N VA: SSC	-
Northern saw-whet owl	<i>Aegolius acadicus</i>	G5/PS <sup>5</sup>	TN: T/S1 VA: SSC	-
Olive-sided flycatcher	<i>Contopus cooperi</i>	G4	TN: D/S1	-
Osprey	<i>Pandion haliaetus</i>	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)				
Common Name	Scientific Name	Natural Heritage Program Status <sup>1</sup>	State Status / Rank <sup>2</sup>	Federal Status <sup>3</sup>
Peregrine Falcon	<i>Falco peregrinus</i>	G4/PS <sup>5</sup> LE	KY: Delisted – (formerly endangered) TN: E/S1N VA: ST	Delisted
Purple Finch	<i>Carpodacus purpureus</i>	G5	VA: SSC	-
Red-breasted nuthatch	<i>Sitta Canadensis</i>	G5	KY: E VA: SSC	-
Red-cockaded woodpecker	<i>Picoides borealis</i>	G3/LE	-	E
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	G5	KY: S	-
Sharp-shinned Hawk	<i>Accipiter striatus</i>	G5/PS <sup>5</sup>	KY: S TN:D/S3B	PS
Swainson's warbler	<i>Limnothlypis swainsonii</i>	G4	TN: D/S3	-
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	G5	TN: D/S1B, S4N	-

- Indicates species has no status

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

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

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

KYDFW (2007): <http://www.kdfr.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 state level.

<b>S1</b>	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
<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>S3</b>	Rare and uncommon in the state, from 21-100 occurrences
<b>S4</b>	Widespread, abundant, and apparently secure within the state, but with cause for long-term concern
<b>S5</b>	Demonstrably widespread and secure in the state
<b>SH</b>	Of historical occurrence in Tennessee, e.g. formally part of the established biota, with the expectation that it may be rediscovered
<b>SU</b>	Can not be ranked using available information
<b>SX</b>	Believed to be extirpated from the state
<b>S#S#</b>	Denotes a "range rank" because the rarity of the species is uncertain (e.g. S1S3)
<b>S?, S_?</b>	Unranked at this time or rank uncertain
<b>SE</b>	Exotic species established in the state
<b>SE#</b>	Exotic numeric (e.g. the Asian clam <i>Corbicula fluminea</i> would be SE5)
<b>SP</b>	Potentially occurring in Tennessee, but not yet documented by DNH
<b>_N</b>	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 director 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.

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**2 = imperiled**

**3 = vulnerable to extirpation or extinction**

**4 = apparently secure**

**5 = demonstrably widespread, abundant, and secure.**

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**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.

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**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# Intraspecific Taxon (trinomial)**—The status of intraspecific 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	<i>Desmognathus welteri</i>	G4	TN: D/S3	-
Cumberland Plateau Salamander	<i>Plethodon kentucki</i>	G4	-	-
Four-Toed Salamander	<i>Hemidactylium scutatum</i>	G5	TN: D/S3	-
Green Frog	<i>Rana clamitans melanota</i>	G5T5	KY: S	-
Green Salamander	<i>Aneides aeneus</i>	G3G4	-	-
Timber Rattlesnake	<i>Crotalus horridus</i>	G4	-	-

- Indicates species has no status

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

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

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

KYDFW (2007): <http://www.kdfr.state.ky.us/kfwis/speciesInfo/speciesInfo.asp?lid=562&NavPath=C267>

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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	<i>Phoxinus cumberlandensis Starnes and Starnes</i>	G2/LT	KY: T TN: T/S2 VA: ST	T
Brook silverside	<i>Labidesthes sicculus (Cope)</i>	G5	VA: SSC	-
Silverjaw minnow	<i>Ericymba buccata Cope</i>	G5	TN: T/S1	-

- Indicates species has no status

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

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