

APPENDIX G. RARE, THREATENED, AND ENDANGERED SPECIES (PNDI)

Scientific Name	Common Name	State	State Rank	Global Rank	State Status	Subwatershed
Amphibians						
<i>Heterodon platirhinos</i>	eastern hognose snake	PA	S3S4	G5	Not Ranked	Sideling Hill

Birds						
<i>Accipiter gentilis</i>	northern goshawk	MD	S1B,SZN	G5	Endangered	Town
<i>Accipiter striatus</i>	sharp-shinned hawk	MD	S1S2B,S4N	G5	Not Ranked	Fifteenmile
<i>Aimophila aestivalis</i>	Bachman's sparrow	MD	SHB	G3	Extirpated	Town
<i>Ammodramus henslowii</i>	Henslow's sparrow	MD	S1S2B	G4	Threatened	Fifteenmile
<i>Dendroica fusca</i>	blackburnian warbler	MD	S1S2B	G5	Threatened	Sideling Hill, Town
<i>Thryomanes bewickii altus</i>	Bewick's wren	MD	S1B	G5T2Q	Endangered	Fifteenmile, Potomac Bends

Communities						
<i>Central appalachian shale barren</i>	Central Appalachian Shale Barren	PA	S1	GNR	Not Ranked	Fifteenmile,Sideling Hill,Town
<i>Pinus strobus-tsuga canadensis (mesic)</i>	White Pine-Hemlock Forest (Moist)	PA	SNR	GNR	Not Ranked	Town
<i>Quercus alba-quercus velutina-carya sp</i>	White Oak-Black Oak-Hickory Forest	PA	SNR	GNR	Not Ranked	Town

Invertebrates						
<i>Amblyscirtes hegon</i>	pepper and salt skipper	MD	S2	G5	In Need of Conservation	Fifteenmile
<i>Calephelis borealis</i>	northern metalmark	MD	S2	G3G4	Threatened	Fifteenmile, Potomac Bends, Sideling Hill, Town
		PA	S1S2		Not Ranked	
<i>Caripeta aretaria</i>	southern pine looper moth	PA	S1	G4	Not Ranked	Town
<i>Cicindela ancocisconensis</i>	a tiger beetle	MD	S1	G3	Endangered	Fifteenmile, Sideling Hill
<i>Cisthene packardii</i>	Packard's lichen moth	PA	S1S3	G5	Not Ranked	Sideling Hill
<i>Cisthene plumbea</i>	lead-colored lichen moth	PA	S1	G5	Not Ranked	Sideling Hill
<i>Crambidia cephalica</i>	lichen moth	PA	S1S2	G5	Not Ranked	Sideling Hill
<i>Erynnis martialis</i>	mottled duskywing	MD	S1	G3G4	Endangered	Sideling Hill

Scientific Name	Common Name	State	State Rank	Global Rank	State Status	Subwatershed
Invertebrates (continued)						
<i>Erynnis persius persius</i>	Persius duskywing	MD	SH	G5T2T3	Not Ranked	Sideling Hill
<i>Euchloe olympia</i>	Olympia marble	MD	S2	G4G5	In Need of Conservation	Fifteenmile, Potomac Bends, Sideling Hill, Town
		PA	S1		Not Ranked	
<i>Fixsenia ontario</i>	northern hairstreak	MD	S1S2	G4T4	Endangered	Potomac Bends, Sideling Hill
<i>Fontigens bottimeri</i>	Appalachian spring snail	MD	S2	G2	Not Ranked	Fifteenmile, Town
<i>Papilio crespontes</i>	giant swallowtail	MD	S2	G5	In Need of Conservation	Fifteenmile, Potomac Bends, Town
<i>Porhomma cavernicola</i>	Appalachian cave spider	MD	S2	G4G5	Not Ranked	Town
<i>Properigea sp. 1</i>	a noctuid moth	PA	S1	G2G3Q	Not Ranked	Sideling Hill
<i>Pyrgus wyandot</i>	southern grizzled skipper	MD	S1	G2/G1G2Q	Endangered/Not Ranked	Fifteenmile, Sideling Hill, Town
<i>Satyrium caryaevorum</i>	hickory hairstreak	MD	S1	G4	Endangered	Fifteenmile
<i>Satyrium edwardsii</i>	Edwards' hairstreak	MD	S1	G4	Endangered	Sideling Hill
<i>Spongilla lacustris</i>	a freshwater sponge	PA	S1?	GNR	Not Ranked	Sideling Hill
<i>Stygobromus franzi</i>	Franz's cave amphipod	MD	S2S3	G2G3	In Need of Conservation	Town
		PA	?			
<i>Zale metata</i>	a zale moth	PA	SNR	G5	Not Ranked	Town

Mammals

<i>Neotoma magister</i>	Allegheny woodrat	MD	S1	G3G4	Threatened/ Endangered	Potomac Bends, Sideling Hill, Town
<i>Spilogale putorius</i>	eastern spotted skunk	MD	S1	G5	Not Ranked	Fifteenmile
		PA	SH		Endangered	
<i>Erethizon dorsatum</i>	porcupine	MD	S1S2	G5	In Need of Conservation	Sideling Hill
<i>Mustela nivalis</i>	least weasel	MD	S2S3	G5	In Need of Conservation	Town
<i>Myotis leibii</i>	eastern small-footed bat	MD	S1B,S2N	G3	In Need of Conservation	Town
<i>Myotis septentrionalis</i>	northern myotis	PA	S3B,S3N	G4	Not Ranked	Town
<i>Alasmidonta undulata</i>	triangle floater	MD	S1	G4	Endangered	Sideling Hill
<i>Alasmidonta varicosa</i>	brook floater	MD	S1	G3	Endangered	Potomac Bends, Town
<i>Lasmigona subviridis</i>	green floater	MD	S1	G3	Endangered	Sideling Hill

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Plants						
<i>Adlumia fungosa</i>	climbing fumitory	MD	S2	G4	Threatened	Sideling Hill, Town
<i>Agrimonia striata</i>	woodland agrimony	MD	S1	G5	Endangered	Town
<i>Alnus viridis</i>	mountain alder	PA	S1	G5	Endangered	Town
<i>Amelanchier humilis</i>	a serviceberry	PA	S1	G5	Tentatively Undetermined	Fifteenmile, Sideling Hill
<i>Amelanchier sanguinea</i>	roundleaf serviceberry	MD	S1	G5	Not Ranked	Sideling Hill, Town
		PA	S1		Tentatively Undetermined	
<i>Amelanchier stolonifera</i>	running juneberry	MD	S2	G5	Threatened	Sideling Hill
<i>Antennaria virginica</i>	shale barren pussytoes	PA	S3	G4	Not Ranked	Fifteenmile, Sideling Hill, Town
<i>Apocynum sibiricum</i>	clasping-leaved dogbane	MD	SH	G5?	Extirpated	Potomac Bends
<i>Arctostaphylos uva-ursi</i>	bearberry	MD	S1	G5	Extirpated	Sideling Hill
<i>Aristida dichotoma var. curtissii</i>	three-awned grass	PA	SH	G5T5	Tentatively Undetermined	Fifteenmile, Sideling Hill, Town
<i>Aster praealtus</i>	willow aster	MD	S1	G5	Unranked	Sideling Hill
<i>Aster radula</i>	rough-leaved aster	PA	S2	G5	Unranked	Town
<i>Astragalus canadensis</i>	Canada milkvetch	MD	S1/S2	G5	Endangered/Not Ranked	Sideling Hill
<i>Astragalus distortus</i>	bent milkvetch	MD	S2	G5	Threatened	Fifteenmile, Potomac Bends
<i>Azolla caroliniana</i>	mosquito fern	MD	SU	G5	Not Ranked	Potomac Bends
<i>Bouteloua curtipendula</i>	side-oats grama	MD	S2	G5	Not Ranked	Fifteenmile, Potomac Bends, Town
<i>Bromus kalmii</i>	brome grass	PA	S3	G5	Not Ranked	Town
<i>Bromus latiglumis</i>	broad-glumed brome	MD	S1	G5	Endangered	Potomac Bends, Town
<i>Calamagrostis porteri</i>	Porter's reedgrass	MD	S1	G4	Endangered	Sideling Hill
<i>Calystegia spithamea</i>	low bindweed	MD	S2	G4G5	Not Ranked	Fifteenmile, Sideling Hill
<i>Campanula divaricata</i>	southern harebell	MD	SU	G4	Extirpated	Fifteenmile
<i>Campanula rotundifolia</i>	harebell	MD	S2	G5	Not Ranked	Fifteenmile, Potomac Bends, Town
<i>Carex emoryi</i>	Emory's sedge	MD	S1S2	G5	Not Ranked	Potomac Bends
<i>Carex pedunculata</i>	long-stalked sedge	MD	S1	G5	Endangered	Fifteenmile
<i>Carex schweinitzii</i>	Schweinitz's sedge	PA	S1	G3G4	Threatened	Town
<i>Carex shortiana</i>	sedge	PA	S3	G5	Not Ranked	Town
<i>Carya laciniosa</i>	big shellbark hickory	MD	S1	G5	Endangered	Sideling Hill

Three Sisters Watershed Conservation Plan

Scientific Name	Common Name	State	State Rank	Global Rank	State Status	Subwatershed
Plants (continued)						
<i>Chionanthus virginicus</i>	fringe-tree	PA	S3	G5	Not Ranked	Town
<i>Cinna latifolia</i>	slender wood reedgrass	MD	S2	G5	Threatened	Potomac Bends
<i>Cyperus houghtonii</i>	Houghton's umbrella-sedge	MD	S1	G4?	Not Ranked	Sideling Hill
<i>Delphinium exaltatum</i>	tall larkspur	PA	S1	G3	Endangered	Town
<i>Diarrhena americana</i>	twin oats	MD	S1	G4?	Endangered	Potomac Bends
<i>Dicentra eximia</i>	wild bleeding heart	MD	S2	G4	Threatened	Fifteenmile, Town
		PA	S1		Endangered	
<i>Diplazium pycnocarpon</i>	glade fern	MD	S2	G5	Threatened	Sideling Hill
<i>Dryopteris campyloptera</i>	mountain wood-fern	MD	S1	G5	Endangered	Fifteenmile
<i>Elliptio producta</i>	Atlantic spike	MD	S2S3	G4Q	Not Ranked	Potomac Bends, Sideling Hill
<i>Eupatorium rotundifolium</i>	a <i>Eupatorium</i> sp.	PA	S3	G5	Tentatively Undetermined	Town
<i>Euphorbia obtusata</i>	blunt-leaved spurge	MD	S1	G5	Endangered	Fifteenmile, Potomac Hills, Sideling Hill
<i>Galium latifolium</i>	purple bedstraw	PA	S3	G5	Not Ranked	Town
<i>Gentiana andrewsii</i>	fringe-tip closed gentian	MD	S2	G5?	Threatened	Town
<i>Glaucopsyche lygdamus</i>	silvery blue	MD	S2	G5	In Need of Conservation	Fifteenmile, Potomac Bends, Town
<i>Hasteola suaveolens</i>	sweet-scented Indian plantain	MD	S1	G3	Endangered	Sideling Hill
<i>Helianthus hirsutus</i>	a sunflower	PA	S2	G5	Not Ranked	Sideling Hill, Town
<i>Hieracium traillii</i>	Maryland hawkweed	PA	S1	G4	Endangered	Fifteenmile
<i>Hypericum stragulum</i>	St. Andrew's cross	PA	S2	G5	Not Ranked	Sideling Hill
<i>Iris cristata</i>	crested iris	MD/P A	S1	G5	Endangered	Sideling Hill
<i>Juglans cinerea</i>	butternut	MD	S2S3	G3G4	Not Ranked	Fifteenmile
<i>Juncus biflorus</i>	grass-leaved rush	PA	S2	G5	Tentatively Undetermined	Town
<i>Juncus debilis</i>	weak rush	PA	S3	G5	Not Ranked	Sideling Hill, Town
<i>Juniperus communis</i>	common juniper	PA	S2	G5	Not Ranked	Town
<i>Lactuca hirsuta</i>	downy lettuce	PA	S3	G5?	Not Ranked	Town
<i>Lathyrus venosus</i>	veiny pea	PA	S2	G5	Not Ranked	Fifteenmile, Town
<i>Liatris scariosa</i>	round-head gayfeather	PA	S2	G5?	Not Ranked	Fifteenmile, Sideling Hill, Town
<i>Liatris turgida</i>	robust blazing-star	MD	SH	G3	Extirpated	Sideling Hill

Three Sisters Watershed Conservation Plan

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Plants (continued)						
<i>Ligusticum canadense</i>	nondo lovage	PA	SH	G4	Endangered	Town
<i>Lithospermum canescens</i>	hoary puccoon	PA	S2	G5	Ranked	Fifteenmile, Town
<i>Lithospermum latifolium</i>	American gromwell	PA	S3	G4	Endangered	Fifteenmile, Town
<i>Lonicera canadensis</i>	Canada honeysuckle	MD	S1	G5	Endangered	Fifteenmile
<i>Lupinus perennis</i>	wild lupine	MD	S2	G5	Threatened	Fifteenmile
<i>Lysimachia hybrida</i>	lowland loosestrife	MD	S2	G5	Threatened	Sideling Hill
<i>Malaxis bayardii</i>	Bayard's malaxis	PA	S1	G2	Rare	Fifteenmile, Sideling Hill, Town
<i>Matelea obliqua</i>	climbing milkweed	MD	S1	G4?	Endangered	Fifteenmile, Potomac Bends
<i>Melanthium virginicum</i>	Virginia bunchflower	PA	SU	G5	Not Ranked	Sideling Hill
<i>Melica nitens</i>	three-flowered melic	MD	S2	G5	Threatened	Fifteenmile, Potomac Bends, Sideling Hill, Town
		PA	S2		Threatened	
<i>Menziesia pilosa</i>	minniebush	PA	S3	G4G5	Rare	Town
<i>Minuartia michauxii</i>	rock sandwort	MD	S2	G5	Threatened	Fifteenmile, Potomac Bends, Sideling Hill, Town
<i>Oenothera argillicola</i>	shale-barren evening primrose	PA	S2	G3G4	Threatened	Town
<i>Opuntia humifusa</i>	prickly-pear cactus	PA	S3	G5	Rare	Town
<i>Oryzopsis asperifolia</i>	white-fruited mountainrice	MD	S2	G5	Threatened	Fifteenmile
<i>Panicum boreale</i>	panic-grass	PA	SU	G5	Tentatively Undetermined	Sideling Hill
<i>Paronychia fastigiata</i> var. <i>nutallii</i>	forked-chickweed	PA	S1S2	G5T3T5	Tentatively Undetermined	Sideling Hill
<i>Paronychia virginica</i> var. <i>virginica</i>	yellow nailwort	MD	S1	G4T1Q	Endangered	Potomac Bends
<i>Parthenium integrifolium</i>	American feverfew	MD	S1	G5	Endangered	Fifteenmile, Town
<i>Paxistima canbyi</i>	Canby's mountain lover	MD	S1	G2	Endangered	Town
<i>Penstemon canescens</i>	a beard-tongue	PA	S3	G4	Not Ranked	Fifteenmile, Sideling Hill, Town
<i>Phaseolus polystachios</i>	wild kidney bean	PA	S1S2	G4	Not Ranked	Sideling Hill
<i>Phlox subulata</i> ssp. <i>brittonii</i>	moss pink	PA	S1	G5T4?	Endangered	Sideling Hill
<i>Pinus echinata</i>	short-leaf pine	PA	S1S2	G5	Not Ranked	Sideling Hill

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Plants (continued)						
<i>Platanthera ciliaris</i>	yellow-fringed orchid	PA	S2	G5	Tentatively Undetermined	Town
<i>Platanthera flava</i>	pale green orchid	MD	S2	G4	Not Ranked	Fifteenmile, Sideling Hill
<i>Poa alsodes</i>	grove meadow-grass	MD	S2	G4G5	Not Ranked	Sideling Hill
<i>Poa languida</i>	drooping bluegrass	PA	S2	G3G4Q	Tentatively Undetermined	Fifteenmile, Town
<i>Polygala polygama</i>	racemed milkwort	MD	S1/S1S2	G5	Threatened/ Tentatively Undetermined	Fifteenmile, Sideling Hill, Town
<i>Polygala senega</i>	Seneca snakeroot	MD	S2	G4G5	Threatened	Fifteenmile, Sideling Hill
<i>Potamogeton illinoensis</i>	Illinois pondweed	MD	S1	G5	Not Ranked	Town
<i>Potamogeton tennesseensis</i>	Tennessee pondweed	PA	S1	G2	Endangered	Sideling Hill
<i>Prenanthes serpentaria</i>	lion's-foot	PA	S3	G5	Not Ranked	Sideling Hill
<i>Prunus alleghaniensis</i>	Allegheny plum	MD	S2	G4	Threatened	Fifteenmile
		PA	S2S3		Not Ranked	
* <i>Ptilimnium nodosum</i>	harperella	MD	S1	G2	Endangered	Fifteenmile, Sideling Hill
<i>Pycnanthemum virginianum</i>	Virginia mountain-mint	MD	S2	G5	Not Ranked	Potomac Bends, Sideling Hill
<i>Ruellia strepens</i>	rustling wild-petunia	MD	S1	G4G5	Endangered	Town
<i>Salix caroliniana</i>	Carolina willow	PA	S1	G5	Not Ranked	Sideling Hill
<i>Scirpus ancistrochaetus</i>	northeastern bulrush	PA	S3	G3	Endangered	Town
<i>Scleria triglomerata</i>	whip nutrush	PA	SH	G5	Tentatively Undetermined	Town
<i>Scutellaria leonardii</i>	Leonard's skullcap	MD	S2	G4T4	Threatened	Fifteenmile, Potomac Bends, Town
<i>Sedum telephioides</i>	Allegheny stonecrop	PA	S3	G4	Rare	Sideling Hill, Town
<i>Senecio antennariifolius</i>	cat's-paw ragwort	PA	S1	G4	Endangered	Sideling Hill
<i>Senecio plattensis</i>	prairie ragwort	PA	SH	G5	Tentatively Undetermined	Town
<i>Smilacina stellata</i>	star-flowered false	MD	S1	G5	Endangered	Fifteenmile
	Solomon's seal					
<i>Solidago arguta var. harrisii</i>	Harris' goldenrod	PA	S1	G5T4	Endangered	Fifteenmile, Sideling Hill, Town
<i>Solidago hispida</i>	hairy goldenrod	MD	SH	G5	Extirpated	Fifteenmile, Sideling Hill
<i>Spiraea betulifolia</i>	dwarf spiraea	PA	S1	G5	Threatened	Sideling Hill, Town
<i>Spiranthes ochroleuca</i>	yellow nodding lady's tresses	MD	S1	G4	Endangered	Town
<i>Stellaria alsine</i>	trailing stitchwort	MD	S1	G5	Endangered	Sideling Hill

Scientific Name	Common Name	State	State Rank	Global Rank	State Status	Subwatershed
Plants (continued)						
<i>Strophitus undulatus</i>	squawfoot	MD	S2	G5	In Need of Conservation	Fifteenmile, Sideling Hill
<i>Symphoricarpos albus</i>	snowberry	MD	S1	G5	Endangered	Fifteenmile, Potomac Bends, Town
<i>Taenidia montana</i>	mountain pimpernel	MD	S1	G3?	Threatened	Fifteenmile, Potomac Bends, Sideling Hill, Town
		PA	S2		Endangered	
<i>Thalictrum coriaceum</i>	thick-leaved meadow-rue	PA	S2	G4	Endangered	Town
<i>Trifolium virginicum</i>	Kate's Mountain clover	MD	S2S3	G3	Threatened/ Endangered	Fifteenmile, Potomac Bends, Sideling Hill, Town
		PA	S1		Endangered	
<i>Triosteum angustifolium</i>	narrow-leaved horse-gentian	MD	S1	G5	Endangered	Potomac Bends
<i>Valerianella chenopodiifolia</i>	goose-foot cornsalad	MD	S1	G5	Endangered	Fifteenmile
<i>Veronica scutellata</i>	marsh speedwell	MD	S1	G5	Endangered	Sideling Hill
<i>Woodsia ilvensis</i>	rusty woodsia	MD	S1	G5	Threatened	Sideling Hill, Town
<i>Zanthoxylum americanum</i>	northern prickly-ash	MD	S1	G5	Endangered	Fifteenmile, Sideling Hill

* *federally endangered species*

Basic Global Rank Codes and Definitions

Rank Code	Description	Definition
GX	Presumed Extinct	Believed to be extinct throughout its range. Not located despite intensive searches of historic sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.
GH	Possibly Extinct	Known from only historical occurrences. Still some hope of rediscovery.
G1	Critically Imperiled	Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction. Typically 5 or fewer occurrences or very few remaining individuals (<1,000) or acres (<2,000) or stream miles (<10).
G2	Imperiled	Imperiled globally because of rarity or because of some factor(s) making it very vulnerable to extinction. Typically 6 to 20 occurrences or few remaining individuals (1,000 to 3,000) or acres (2,000 to 10,000) or stream miles (10 to 50).
G3	Vulnerable	Vulnerable globally either because very rare and local throughout its range, found only in a restricted range (even if abundant at some locations), or because of other factors making it vulnerable to extinction. Typically 21 to 100 occurrences or between 3,000 and 10,000 individuals.
G4	Apparently Secure	Uncommon but not rare, and usually widespread. Possibly cause for long-term concern. Typically more than 100 occurrences and more than 10,000 individuals.
G5	Secure	Common, typically widespread and abundant. Typically with considerably more than 100 occurrences and more than 10,000 individuals.
G#G#	Range Rank	A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon.
T	Intraspecific Taxon (trinomial)	The status of intraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. Rules for assigning T ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species= basic rank (e.g., a G1T2 subrank should not occur). A population (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an intraspecific taxon and given a T rank; in such cases a Q is used after the T rank to denote the taxon's questionable taxonomic status.

Global Rank Qualifiers

Qualifier	Description	Definition
?	Inexact Numeric Rank	Denotes inexact numeric rank.
Q	Questionable Taxonomy	Taxonomic status is questionable; numeric rank may change with taxonomy.
C	Captive or Cultivated Only	Taxon at present is extant only in captivity or cultivation, or as a reintroduced population not yet established.

State Rank Codes and Definitions

Rank Code	Description	Definition
SX	Extirpated	Element is believed to be extirpated from the "state" (or province or other subnational unit).
SH	Historical	Element occurred historically in the state (with expectation that it may be rediscovered), perhaps
S1	Critically Imperiled	Critically imperiled in the state because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. Typically 5 or fewer occurrences or very few remaining individuals or acres.
S2	Imperiled	Imperiled in the state because of rarity or because of some factor(s) making it very vulnerable to extirpation from the state. Typically 6 to 20 occurrences or few remaining individuals or acres.
S3	Vulnerable	Vulnerable in the state either because rare and uncommon, or found only in a restricted range (even if abundant at some locations), or because of other factors making it vulnerable to extirpation. Typically 21 to 100 occurrences.
S4	Apparently Secure	Uncommon but not rare, and usually widespread in the state. Usually more than 100 occurrences.
S5	Secure	Demonstrably widespread, abundant, and secure in the state, and essentially ineradicable under present conditions.
S?	Unranked	State rank is not yet assessed.
SU	Unrankable	Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. NOTE: Whenever possible, the most likely rank is assigned and a question mark added (e.g., S2?) to express uncertainty, or a range rank (e.g., S2S3) is used to delineate the limits (range) of uncertainty.

State Rank Codes and Definitions (continued)

Rank Code	Description	Definition
S#S#	Range Rank	A numeric range rank (e.g., S2S3) is used to indicate the range of uncertainty about the exact status of the element. Ranges cannot skip more than one rank (e.g., SU should be used rather than S1S4).
HYB	Hybrid	Element represents an interspecific hybrid.
SE	Exotic	An exotic established in the state; may be native in nearby regions (e.g., house finch or catalpa in eastern U.S.).
SE#	Exotic Numeric	An exotic established in the state that has been assigned a numeric rank to indicate its status, as with S1 through S5.
SA	Accidental	Accidental or casual in the state (i.e., infrequent and outside usual range). Includes species (usually birds or butterflies) recorded once or only a few times. A few of these species may have bred on the one or two occasions they were recorded. Examples include European strays or western birds on the east coast and vice-versa.
SZ	Zero Occurrences	Not of practical conservation concern in the state because there are no definable occurrences, although the taxon is native and appears regularly in the state. An SZ rank will generally be used for long-distance migrants whose occurrences during their migrations have little or no conservation value for the migrant as they are typically too irregular (in terms of repeated visitation to the same locations), transitory, and dispersed to be reliably identified, mapped, and protected. In other words, the migrant regularly passes through the subnation, but enduring, mappable Element Occurrences cannot be defined. Typically, the SZ rank applies to a non-breeding population in the subnation -- for example, birds on migration. An SZ rank may in a few instances also apply to a breeding population, for example certain Lepidoptera which regularly die out every year with no significant return migration. Although the SZ rank typically applies to migrants, it should not be used indiscriminately. Just because a species is on migration does not mean it receives an SZ rank. SZ only applies when the migrants occur in an irregular, transitory, a
SP	Potential	Potential that Element occurs in the state but no extant or historic occurrences reported.
SR	Reported	Element reported in the state but without a basis for either accepting or rejecting the report. Some of these are very recent discoveries for which the program hasn't yet received first-hand information; others are old, obscure reports.

State Rank Codes and Definitions (continued)

Rank Code	Description	Definition
SRF	Reported Falsely	Element erroneously reported in the state (e.g., misidentified specimen) and the error has persisted in the literature.
SSYN	Synonym	Element reported as occurring in the state, but state does not recognize the taxon; therefore, the Element is not ranked by the state.
*		S rank has been assigned and is under review. Contact the individual state Natural Heritage Program for assigned rank.
Not Provided		Species is known to occur in this state. Contact the individual state Natural Heritage program for assigned rank.

State Rank Qualifiers

Qualifier	Description	Definition
B	Breeding	Basic rank refers to the breeding population of the Element in the state.
N	Non-breeding	Basic rank refers to the non-breeding population of the Element in the state.
?	Inexact or Uncertain	Denotes inexact or uncertain numeric rank. For SE denotes uncertainty of exotic status. (The ? qualifies the character immediately preceding it in the SRANK.)
C	Captive or Cultivated	Element is presently extant in the state only in captivity or cultivation, or as a reintroduced population not yet established.

NOTE - A breeding status subrank is only used for species that have distinct breeding and/or non-breeding populations in the state. A breeding-status SRANK can be coupled with its complementary non-breeding-status SRANK. The two are separated by a comma, with the higher-priority rank listed first in their pair (e.g., AS2B,S3N@ or ASHN,S4S5B@).

Pennsylvania Status Definitions - Plants

Status	Description	Definition
PE	Pennsylvania Endangered	Plant species which are in danger of extinction throughout most of their natural range within this commonwealth, if critical habitat is not maintained or if the species is greatly exploited by man. This classification shall also include any populations of plant species that have been classified as Pennsylvania Extirpated, but which subsequently are found to exist in this commonwealth.
PT	Pennsylvania Threatened	Plant species which may become endangered throughout most or all of their natural range within this commonwealth, if critical habitat is not maintained to prevent their future decline, or if the species is greatly exploited by man.
PR	Pennsylvania Rare	Plant species, which are uncommon within this commonwealth. All species of the native wild plants classified as Disjunct, Endemic, Limit of Range, and Restricted are included within the Pennsylvania Rare classification.
	Disjunct	Significantly separated from their main area of distribution.
	Endemic	Confined to a specialized habitat.
	Limit of Range	At or near the periphery of their natural distribution.
	Restricted	Found in specialized habitats or habitats infrequent in Pennsylvania.
PX	Pennsylvania Extirpated	Plant species believed by the department to be extinct within this commonwealth. These plants may or may not be in existence outside the commonwealth.
PV	Pennsylvania Vulnerable	Plant species which are in danger of population decline within the commonwealth because of their beauty, economic value, use as a cultivar, or other factors which indicate that persons may seek to remove these species from their native habitats.
TU	Tentatively Undetermined	A classification of plant species which are believed to be in danger of population decline, but which cannot presently be included within another classification due to taxonomic uncertainties, limited evidence within historical records, or insufficient data.
N		No current legal status exists, but is under review for future listing.

Pennsylvania State Status - Wild Birds and Mammals

Status	Description	Definition
PE	Pennsylvania Endangered	Species in imminent danger of extinction or extirpation throughout their range in Pennsylvania if the deleterious factors affecting them continue to operate. These are: 1) species whose numbers have already been reduced to a critically low level or whose habitat has been so drastically reduced or degraded that immediate action is required to prevent their extirpation from the commonwealth; or 2) species whose extreme rarity or peripherality places them in potential danger of precipitous declines or sudden extirpation throughout their range in Pennsylvania; or 3) species that have been classified as "Pennsylvania Extirpated," but which are subsequently found to exist in Pennsylvania as long as the above conditions 1 or 2 are met; or 4) species determined to be "Endangered" pursuant to the Endangered Species Act of 1973, Public Law 93 205 (87 Stat. 884), as amended.
PT	Pennsylvania Threatened	Species that may become endangered within the foreseeable future throughout their range in Pennsylvania unless the casual factors affecting the organism are abated. These are: 1) species whose populations within the commonwealth are decreasing or have been heavily depleted by adverse factors and while not actually endangered, are still in critical condition; 2) species whose populations may be relatively abundant in the commonwealth but are under severe threat from serious adverse factors that have been identified and documented; or 3) species whose populations are rare or peripheral and in possible danger of severe decline throughout their range in Pennsylvania; or 4) species determined to be "Threatened" pursuant to the Endangered Species Act of 1973, Public Law 93205 (87 Stat. 884), as amended, that are not listed as "Pennsylvania Endangered."
N		No current legal status but is under review for future listing.

Pennsylvania State Status - Invertebrates

Status	Description	Definition
N		No current legal status but is under review for future listing.

Pennsylvania State Status - Fish, Amphibians, Reptiles, and Aquatic Organisms

Status	Description	Definition
PE	Pennsylvania Endangered	All species declared by: 1) the Secretary of the United States Department of the Interior to be threatened with extinction and appear on the Endangered Species List or the Native Endangered Species List published in the Federal Register; or 2) have been declared by the Pennsylvania Fish Commission, Executive Director to be threatened with extinction and appear on the Pennsylvania Endangered Species List published by the Pennsylvania Bulletin.
PT	Pennsylvania Threatened	All species declared by: 1) the Secretary of the United States Department of the Interior to be in such small numbers throughout their range that they may become endangered if their environment worsens, and appear on a Threatened Species List published in the Federal Register; or 2) have been declared by the Pennsylvania Fish Commission Executive Director to be in such small numbers throughout their range that they may become endangered if their environment worsens and appear on the Pennsylvania Threatened Species List published in the Pennsylvania Bulletin.
PC		Animals that could become endangered or threatened in the future. All of these are uncommon, have restricted distribution or are at risk because of certain aspects of their biology.
N		No current legal status, but is under review for future listing.

Federal Status Codes and Definitions

Status	Description	Definition
LE	Listed Endangered	A species which is in danger of extinction throughout all or a significant portion of its range.
LT	Listed Threatened	Any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
LELT	Listed Endangered in part of range; listed Threatened in the remaining part.	
PE	Proposed Endangered	Taxa proposed to be listed as endangered.
PT	Proposed Threatened	Taxa proposed to be listed as threatened
PEPT		Proposed Endangered in part of range; proposed Threatened in the remaining part.
C	Candidate for listing.	
E(S/A)		Treat as Endangered because of similarity of appearance.
T(S/A)		Treat as Threatened because of similarity of appearance.
XE	Essential Experimental population.	
XN	Nonessential Experimental population.	
"xy" (mixed status)		Status varies for different populations or parts of range.
"x" NL		Status varies for different populations or parts of range with at least one part not listed.