

PNHP 2008



# Pennsylvania Natural Heritage Program

Information for the conservation of biodiversity



[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

## Species Lists

These lists contain only species of special concern in PA, not all species.

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



- Rank and Status Definitions

**The Seasonal Pools registry is now available.**  
Please check out the site here  
**PaConserve**

- [New!](#) Species Fact Sheets

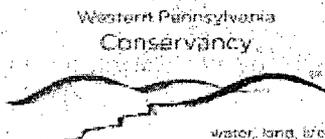
- [New!](#) County Natural Heritage Inventories (PDF)

- [New!](#) Plant Community Information (PDF)

- PNDI Project Planning Environmental Review

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The Pennsylvania Natural Heritage Program (PNHP) is a member of NatureServe, an international network of natural heritage programs that gather and provide information on the location and status of important ecological resources (plants, vertebrates, invertebrates, natural communities and geologic features). Our purpose is to provide current, reliable, objective information to help inform environmental decisions. PNHP information can be used to guide conservation work and land-use planning, ensuring the maximum conservation benefit with the minimum cost.



PNHP is a partnership between The Department of Conservation and Natural Resources, the Western Pennsylvania Conservancy, the Pennsylvania Game Commission, and the Pennsylvania Fish and Boat Commission.

Version 1.0.6.2



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Information for the conservation of biodiversity

[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

## Species Lists

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



## Invertebrate Species List

Species

By

County

Watershed

- Rank and Status Definitions

*Records Can Be Sorted By Clicking Column Name*

- Species Fact Sheets

Export list to **Text**

	Scientific Name	Common Name	Global Rank	State Rank	State Status	Proposed State Status	Federal Status
• County Natural Heritage Inventories (PDF)	Alasmidonta marginata	Elktoe	G4	S4		N	
	Alasmidonta undulata	Triangle Floater	G4	S3S4		N	
	Alasmidonta varicosa	Brook Floater	G3	S2		PE	
• Plant Community Information (PDF)	Boyeria grafiana	Ocellated Darner	G5	S3			
	Caecidotea pricei	Price's Cave Isopod	G5	S2S3			
	Callophrys irus	Frosted Elfin	G3	S1S2			
	Cicindela marginipennis	cobblestone tiger beetle	G2	S1			
	Crangonyx dearolfi	Pennsylvania Cave Amphipod	G2G4	S1			
• PNDI Project Planning Environmental Review	Dryobius sexnotatus	Six-banded Longhorn Beetle	GNR	SH			
	Gomphus ventricosus	Sillet Clubtail	G3	SX			
	Hesperia leonardus	Leonard's Skipper	G4	S3S4			PS
<b>NOTE: Clicking this link opens a new browser window</b>	Lampsilis cariosa	Yellow Lampmussel	G3G4	S3S4		CU	
	Lampsilis radiata	Eastern Lampmussel	G5	S1		CU	
	Lasmigona subviridis	Green Floater	G3	S2		CU	
	Nicrophorus						

<i>marginatus</i>	A Burying Beetle	GNR	SX	
<i>Papaipema</i> sp. 1	Flypoison Borer Moth	G2G3	S2	
<i>Progomphus</i> <i>obscurus</i>	Common Sanddragon	G5	S2	
<i>Somatochlora</i> <i>linearis</i>	Mocha Emerald	G5	S1	
<i>Speyeria</i> <i>idalia</i>	Regal Fritillary	G3	S1	
<i>Sphalloplana</i> <i>pricei</i>	Refton Cave Planarian	G2G3	S1	
<i>Stylurus</i> <i>arnicola</i>	Riverine Clubtail	G4	SX	
<i>Tachopteryx</i> <i>thoreyi</i>	Gray Petaltail	G4	S3	
<i>Villosa</i> <i>iris</i>	Rainbow Mussel	G5	S1	PE



# Pennsylvania Natural Heritage Program

information for the conservation of biodiversity

[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

Species Lists

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



## Invertebrate Species List

Species By

County

Watershed

[Show all Species](#)

- Rank and Status Definitions

*Records Can Be Sorted By Clicking Column Name*

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Export list to

- County Natural Heritage Inventories (PDF)

- Plant Community Information (PDF)

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Proposed State Status	Federal Status
Alasmidonta heterodon	Dwarf Wedgemussel	G1G2	S1	PE	PE	LE
Alasmidonta marginata	Elktoe	G4	S4		N	
Alasmidonta undulata	Triangle Floater	G4	S3S4		N	
Alasmidonta varicosa	Brook Floater	G3	S2		PE	
Anodontoides ferussacianus	Cylindrical Papershell	G5	S2S3		CR	
Anthocharis midea	Falcate Orangetip	G4G5	S3			
Artace cribraria	Dot-lined White Moth	G5	S1			
Asterocampa clyton	Tawny Emperor	G5	S3S4			
Atrytonopsis hianna	Dusted Skipper	G4G5	S2S3			
Caecidotea pricei	Price's Cave Isopod	G5	S2S3			
Callophrys gryneus	Juniper Hairstreak	G5	S2S4			
Callophrys irus	Frosted Elfin	G3	S1S2			
Cicindela marginipennis	cobblestone tiger beetle	G2	S1			
Cisthene packardii	Packard's Lichen Moth	G5	S1S3			
Erynnis persius persius	Persius Duskywing	G5T1T3	S1S2			

<i>Euphydryas phaeton</i>	Baltimore Checkerspot	G4	S2S4	
<i>Euphyes conspicuus</i>	Black Dash	G4	S3	
<i>Hemileuca maia</i>	Barrens Buckmoth	G5	S1S2	
<i>Hesperia leonardus</i>	Leonard's Skipper	G4	S3S4	PS
<i>Hesperia metea</i>	Cobweb Skipper	G4G5	S2S3	
<i>Holomelina laeta</i>	Joyful Holomelina Moth	G4	S1S2	
<i>Lampsilis cariosa</i>	Yellow Lampmussel	G3G4	S3S4	CU
<i>Lasmigona subviridis</i>	Green Floater	G3	S2	CU
<i>Lycaena hyllus</i>	Bronze Copper	G5	SU	
<i>Papilio cresphontes</i>	Giant Swallowtail	G5	S2	
<i>Poanes massasoit</i>	Mulberry Wing	G4	S3	
<i>Satyrrium titus</i>	Coral Hairstreak	G5	S3S4	
<i>Speyeria idalia</i>	Regal Fritillary	G3	S1	
<i>Sphalloplana pricei</i>	Refton Cave Planarian	G2G3	S1	
<i>Stygobromus allegheniensis</i>	Allegheny Cave Amphipod	G5	S2S3	
<i>Stygobromus pizzinii</i>	Pizzini's Cave Amphipod	G3G4	S1	
<i>Stylurus plagiatus</i>	Russet-tipped Clubtail	G5	S1	
<i>Thorybes bathyllus</i>	Southern Cloudywing	G5	S3S4	
<i>Tolyte notialis</i>	Tolyte Moth	G4G5	S1	
<i>Xestia elimata</i>	Southern Variable Dart Moth	G5	S2S3	
<i>Zale curema</i>	A Zale Moth	G3G4	S1	



# Pennsylvania Natural Heritage Program

Information for the conservation of biodiversity

[Home](#)   
 [ER Feedback](#)   
 [What's New](#)   
 [More on PNHP](#)

Species Lists



- All Species Types
  - Plants
  - Vertebrates
  - Invertebrates
  - Geologic Features
  - Natural Community Types
- 
- Rank and Status Definitions

## Invertebrate Species List

Species

By

County

Watershed

[Show all Species](#)

*Records Can Be Sorted By Clicking Column Name*

Export list to [Text](#)

- Species Fact Sheets

- County Natural Heritage Inventories (PDF)

- Plant Community Information (PDF)

- PNDI Project Planning Environmental Review

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	Scientific Name	Common Name	Global Rank	State Rank	State Status	Proposed State Status	Federal Status
	<i>Alasmidonta marginata</i>	Elktoe	G4	S4		N	
	<i>Alasmidonta undulata</i>	Triangle Floater	G4	S3S4		N	
	<i>Alasmidonta varicosa</i>	Brook Floater	G3	S2		PE	
	<i>Anax longipes</i>	Comet Darner	G5	S1S2			
	<i>Asterocampa clyton</i>	Tawny Emperor	G5	S3S4			
	<i>Caecidotea pricei</i>	Price's Cave Isopod	G5	S2S3			
	<i>Callophrys gryneus</i>	Juniper Hairstreak	G5	S2S4			
	<i>Callophrys henrici</i>	Henry's Elfin	G5	S1S3			
	<i>Callophrys polios</i>	Hoary Elfin	G5	S1			
	<i>Cordulegaster bilineata</i>	Brown Spiketail	G5	S1S2			
	<i>Crangonyx dearolfi</i>	Pennsylvania Cave Amphipod	G2G4	S1			
	<i>Enallagma basidens</i>	Double-striped Bluet	G5	S3S4			
	<i>Enallagma divagans</i>	Turquoise Bluet	G5	S3			
	<i>Euphydryas phaeton</i>	Baltimore Checkerspot	G4	S2S4			
	<i>Gomphus ventricosus</i>	Skillet Clubtail	G3	SX			

<i>Hesperia leonardus</i>	Leonard's Skipper	G4	S3S4		PS
<i>Lampsilis cariosa</i>	Yellow Lampmussel	G3G4	S3S4	CU	
<i>Lasmigona subviridis</i>	Green Floater	G3	S2	CU	
<i>Nicrophorus marginatus</i>	A Burying Beetle	GNR	SX		
<i>Ophiogomphus incurvatus</i>	Appalachian snaketail	G3	S1		
<i>Papilio cresphontes</i>	Giant Swallowtail	G5	S2		
<i>Somatochlora linearis</i>	Mocha Emerald	G5	S1		
<i>Speyeria idalia</i>	Regal Fritillary	G3	S1		
<i>Stylurus plagiatus</i>	Russet-tipped Clubtail	G5	S1		
<i>Zale submediana</i>	A Zale Moth	G4	S2		



# Pennsylvania Natural Heritage Program

Information for the conservation of biodiversity

[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

Species Lists

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



## Vertebrate Species List

Species

By

County

Watershed

[Show all Species](#)

- Rank and Status Definitions

*Records Can Be Sorted By Clicking Column Name*

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Scientific Name	Common Name	Global Rank	State Rank	State Status	Proposed State Status	Federal Status
Ameiurus melas	Black Bullhead	G5	S1	PE	PE	
Anas crecca	Green-winged Teal	G5	S1S2B,S3N		CA	
Ardea herodias	Great Blue Heron	G5	S3S4B,S4N			
Casmerodius albus	Great Egret	G5	S1B	PE	PE	
Cistothorus palustris	Marsh Wren	G5	S2S3B		CR	
Crotalus horridus	Timber Rattlesnake	G4	S3S4	PC	CA	
Falco peregrinus	Peregrine Falcon	G4	S1B,S1N	PE	PE	PS:LE
Haliaeetus leucocephalus	Bald Eagle	G5	S2B	PT	PT	PS:LT,PDL
Heterodon platirhinos	Eastern Hognose Snake	G5	S3			
Myotis septentrionalis	Northern Myotis	G4	S3B,S3N		CR	
Neotoma magister	Allegheny Woodrat	G3G4	S3	PT	PT	
Nyctanassa violacea	Yellow-crowned Night-heron	G5	S1B	PE	PE	
Nycticorax nycticorax	Black-crowned Night-heron	G5	S2S3B	PE	PE	
Pandion haliaetus	Osprey	G5	S2B	PT	PT	
Tyto alba	Barn-owl	G5	S3B,S3N		CR	



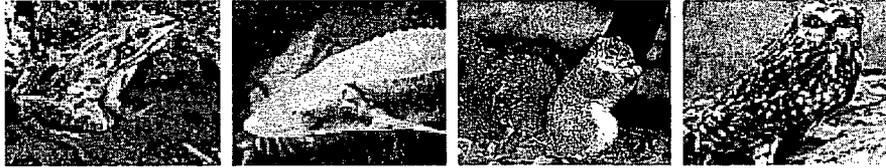
# Pennsylvania Natural Heritage Program

Information for the conservation of biodiversity

[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

## Species Lists

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



## Vertebrate Species List

Species By

County

Watershed

[Show all Species](#)

- Rank and Status Definitions

Records Can Be Sorted By Clicking Column Name

- Species Fact sheets

Export list to [Text](#)

- County Natural Heritage Inventories (PDF)

- Plant Community Information (PDF)

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Ardea herodias	Great Blue Heron	G5	S3S4B,S4N			
Asio otus	Long-eared Owl	G5	S2B,S2S3N		CU	
Bartramia longicauda	Upland Sandpiper	G5	S1S2B	PT	PT	
Botaurus lentiginosus	American Bittern	G4	S1B	PE	PE	
Casmerodius albus	Great Egret	G5	S1B	PE	PE	
Cistothorus palustris	Marsh Wren	G5	S2S3B		CR	
Cistothorus platensis	Sedge Wren	G5	S1B	PE	PE	
Clemmys guttata	Spotted Turtle	G5	S3			
Eumeces laticeps	Broadhead Skink	G5	S1	PC	CR	
Falco peregrinus	Peregrine Falcon	G4	S1B,S1N	PE	PE	PS:LE
Glyptemys muhlenbergii	Bog Turtle	G3	S2	PE	PE	LT, SAT
Haliaeetus leucocephalus	Bald Eagle	G5	S2B	PT	PT	PS:LT,PDL
Myotis septentrionalis	Northern Myotis	G4	S3B,S3N		CR	
Neotoma magister	Allegheny Woodrat	G3G4	S3	PT	PT	
Nyctanassa violacea	Yellow-crowned Night-heron	G5	S1B	PE	PE	
Nycticorax	Black-crowned					

nycticorax	Night-heron	G5	S2S3B	PE	PE	
Opheodrys aestivus	Rough Green Snake	G5	S1	PE	PE	
Pandion haliaetus	Osprey	G5	S2B	PT	PT	
Protonotaria citrea	Prothonotary Warbler	G5	S2S3B		CR	
Pseudemys rubriventris	Redbelly Turtle	G5	S2	PT	CA	PS
Rallus elegans	King Rail	G4	S1B	PE	PE	
Terrapene carolina	Eastern Box Turtle	G5	S3S4			
Tyto alba	Barn-owl	G5	S3B,S3N		CR	

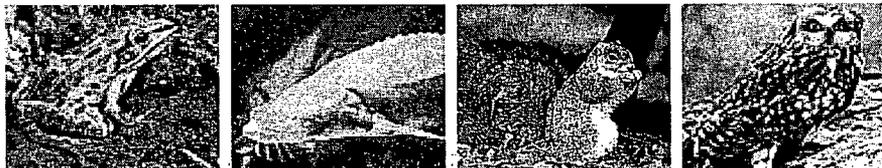


**Pennsylvania Natural Heritage Program**  
 information for the conservation of biodiversity

[Home](#)   [ER Feedback](#)   [What's New](#)   [More on PNHP](#)

Species Lists

- All Species Types
- Plants
- Vertebrates
- Invertebrates
- Geologic Features
- Natural Community Types



## Vertebrate Species List

Species

By

County

Watershed

[Show all Species](#)

- Rank and Status Definitions

*Records Can Be Sorted By Clicking Column Name*

Export list to **Text**

- Species Fact sheets

- County Natural Heritage Inventories (PDF)

- Plant Community Information (PDF)

- PNDI Project Planning Environmental Review

**NOTE:** Clicking this link opens a new browser window

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Cistothorus palustris	Marsh Wren	G5	S2S3B		CR	
Cistothorus platensis	Sedge Wren	G5	S1B	PE	PE	
Crotalus horridus	Timber Rattlesnake	G4	S3S4	PC	CA	
Cryptotis parva	Least Shrew	G5	S1	PE	PE	
Glyptemys muhlenbergii	Bog Turtle	G3	S2	PE	PE	LT, SAT
Haliaeetus leucocephalus	Bald Eagle	G5	S2B	PT	PT	PS:LT,PDL
Myotis septentrionalis	Northern Myotis	G4	S3B,S3N		CR	
Nyctanassa violacea	Yellow-crowned Night-heron	G5	S1B	PE	PE	
Nycticorax nycticorax	Black-crowned Night-heron	G5	S2S3B	PE	PE	
Pandion haliaetus	Osprey	G5	S2B	PT	PT	
Protonotaria citrea	Prothonotary Warbler	G5	S2S3B		CR	
Pseudemys rubriventris	Redbelly Turtle	G5	S2	PT	CA	PS
Rallus limicola	Virginia Rail	G5	S3B			
Tyto alba	Barn-owl	G5	S3B,S3N		CR	



**Pennsylvania Natural Heritage Program**  
 Information for the conservation of biodiversity

[Home](#)    [ER Feedback](#)    [What's New](#)    [More on PNHP](#)

Species Lists

- [Plants](#)
- [Vertebrates](#)
- [Invertebrates](#)
- [Geologic Features](#)
- [Natural Community Types](#)

• [Rank and Status Definitions](#)

• [Species Fact Sheets](#)

• [County Natural Heritage Inventories \(PDF\)](#)

• [Plant Community Information \(PDF\)](#)

• [PNDI Project Planning Environmental Review](#)

NOTE: Clicking this link opens a new browser window

# Global Rank Definitions

Global ranks (i.e. range-wide conservation status ranks) are assigned at NatureServe's Headquarters or by a designated lead office in the Heritage/Conservation Data Center Network.

## Basic Global Rank Codes and Definitions

<b>GX</b>	<b>Presumed Extinct</b> - 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.
<b>GH</b>	<b>Possibly Extinct</b> - Known from only historical occurrences. Still some hope of rediscovery.
<b>G1</b>	<b>Critically Imperiled</b> - 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).
<b>G2</b>	<b>Imperiled</b> - 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).
<b>G3</b>	<b>Vulnerable</b> - 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.
<b>G4</b>	<b>Apparently Secure</b> - Uncommon but not rare, and usually widespread. Possibly cause for long-term concern. Typically more than 100 occurrences and more than 10,000 individuals.
<b>G5</b>	<b>Secure</b> - Common, typically widespread and abundant. Typically with considerably more than 100 occurrences and more than 10,000 individuals.

## Variant Global Ranks



<b>G#G#</b>	<b>Range Rank</b> - A numeric range rank (e.g., G2G3) is used to indicate uncertainty about the exact status of a taxon.
<b>GU</b>	<b>Unrankable</b> - Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
<b>G?</b>	<b>Unranked</b> - Global rank not yet assessed.
<b>HYB</b>	<b>Hybrid</b> - Element represents an interspecific hybrid.

### Rank Qualifiers

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

### Intraspecific Taxon Ranks

<b>T</b>	<b>Intraspecific Taxon</b> (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.
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The Nature Conservancy (6 August 1996 version)

## State Rank Definitions

### State Rank Codes and Definitions

<b>SX</b>	<b>Extirpated</b> - Element is believed to be extirpated from the
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	"state" (or province or other subnational unit).
<b>SH</b>	<b>Historical</b> - Element occurred historically in the state (with expectation that it may be rediscovered), perhaps having not been verified in the past 20 years, and suspected to be still extant. Naturally, an Element would become SH without such a 20-year delay if the only known occurrences in a state were destroyed or if it had been extensively and unsuccessfully looked for. Upon verification of an extant occurrence, SH-ranked Elements would typically receive an S1 rank. The SH rank should be reserved for Elements for which some effort has been made to relocate occurrences, rather than simply ranking all Elements not known from verified extant occurrences with this rank.
<b>S1</b>	<b>Critically Imperiled</b> - 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.
<b>S2</b>	<b>Imperiled</b> - 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.
<b>S3</b>	<b>Vulnerable</b> - 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.
<b>S4</b>	<b>Apparently Secure</b> - Uncommon but not rare, and usually widespread in the state. Usually more than 100 occurrences.
<b>S5</b>	<b>Secure</b> - Demonstrably widespread, abundant, and secure in the state, and essentially ineradicable under present conditions.
<b>S?</b>	<b>Unranked</b> - State rank is not yet assessed.
<b>SU</b>	<b>Unrankable</b> - 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.
<b>S#S#</b>	<b>Range Rank</b> - 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).
<b>HYB</b>	<b>Hybrid</b> - Element represents an interspecific hybrid.
<b>SE</b>	<b>Exotic</b> - An exotic established in the state; may be native in

	nearby regions (e.g., house finch or catalpa in eastern U.S.).
<b>SE#</b>	<b>Exotic Numeric</b> - An exotic established in the state that has been assigned a numeric rank to indicate its status, as with S1 through S5.
<b>SA</b>	<b>Accidental</b> - 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.
<b>SZ</b>	<b>Zero Occurrences</b> - 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, and dispersed manner.
<b>SP</b>	<b>Potential</b> - Potential that Element occurs in the state but no extant or historic occurrences reported.
<b>SR</b>	<b>Reported</b> - 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.
<b>SRF</b>	<b>Reported Falsely</b> - Element erroneously reported in the state (e.g., misidentified specimen) and the error has persisted in the literature.
<b>SSYN</b>	<b>Synonym</b> - Element reported as occurring in the state, but state does not recognize the taxon; therefore the Element is not ranked by the state.
<b>*</b>	S rank has been assigned and is under review. Contact the individual state Natural Heritage program for assigned rank.

<b>Not Provided</b>	Species is known to occur in this state. Contact the individual state Natural Heritage program for assigned rank.
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### Breeding Status Qualifiers

<b>B</b>	<b>Breeding</b> - Basic rank refers to the breeding population of the Element in the state.
<b>N</b>	<b>Non-breeding</b> - Basic rank refers to the non-breeding population of the Element in the state.
<b>Note</b>	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@).

### Other Qualifiers

<b>?</b>	<b>Inexact or Uncertain</b> - Denotes inexact or uncertain numeric rank. For SE denotes uncertainty of exotic status. (The ? qualifies the character immediately preceding it in the SRANK.)
<b>C</b>	<b>Captive or Cultivated</b> - Element is presently extant in the state only in captivity or cultivation, or as a reintroduced population not yet established.

The Nature Conservancy (6 August 1996 version)

# Pennsylvania Status Definitions

**Native Plant Species Legislative Authority:** Title 17 Chapter 45, Conservation of Native Wild Plants, January 1, 1988; Pennsylvania Department of Conservation and Natural Resources.

### Plant Status Codes and Definitions

<b>PE</b>	<b>Pennsylvania Endangered</b> - 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
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