Appendix C. Rare Species in the Nanticoke River Watershed



 $Del marva\ Fox\ Squirrel$

USFWS

Species likely to occur on the Refuge Complex, based on Maryland and Delaware Natural Heritage Programs data

Source: "Nanticoke River Bioreserve Strategic Plan" (The Nature Conservancy, 1998)

See "Explanation of Global and State Species Ranks" following this table. "Federal status" from USFWS.

Table C.1. Rare Species in the Nanticoke River Watershed

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS					
Rhynchospora microcephalia	Tiny-headed beak- rush	G?		S1/(S2)	Open Canopy Herbaceous Wetlands
*Agalinis acuta	Sandplain gerardia	G1	LE	S1	No records; may have occurred here historically
Oxypolis canbyi	Canby's dropworth	G1G2	LE	S1/N	Open Canopy Herbaceous Wetlands
Aeschynomene virginica	Sensitive joint-vetch	G2	LT	N/S2	Atlantic White Cedar Swamps
Lobelia boykinii	Boykin's lobelia	G2		N/S2	Other Natural Communities
Desmodium ochroleucum	Cream-flowered tick-trefoil	G2G3		S1/(SH)	Xeric Dune Communities
Hypericum adpressum	Creeping St. John's wort	G2G3		S1/S1	Xeric Dune Communities
Alnus maritima	Seaside alder	G3		S1/S2	Coastal Plain Ponds
Coreopsis rosea	Rose coreopsis	G3		S2/S4	Open Canopy Herbaceous Wetlands
Eriocaulon parkeri	Parker's pipewort	G3		N/S1S3	Xeric Dune Communities
Gaylussacia brachycera	Box huckleberry	G3		S1/N	Open Canopy Herbaceous Wetlands
Helonias bullata	Swamp pink	G3	LT	S2	
Rhexia aristosa	Awned meadow- beauty	G3		S1/(S1)	Xeric Dune Communities
Rhynchospora harperi	Harper's beak-rush	G3		S3/S1	Open Canopy Herbaceous Wetlands
Sagittaria teres	Slender arrowhead	G3		SH/S1	Open Canopy Herbaceous Wetlands
Rhynchospora pallida	Pale beak-rush	G3?		S2/(SH)	Other Natural Communities
Agalinis virgata	Pine-barren gerardia	G3G4		S3/S2	Freshwater Intertidal Wetlands & Atlantic White Cedar Swamps
Bidens mitis	Small-fruited beggarticks	G3G4		S2/S2	Open Canopy Herbaceous Wetlands
Carex mitchelliana	Mitchell's sedge	G3G4		S1/N	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Litsea aestivalis	Poundspice	G3G4		S2/S4	Open Canopy Herbaceous Wetlands
Scirpus etuberculatus	Canby's bulrush	G3G4		(S2)/SH	Xeric Dune Communities

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Rhynchospora inundata	Drowned horned-rush	G3-G4		N/S1	Other Natural Communities
Cardamine longii	Long's bittercress	G3G4Q		SH/S2	Open Canopy Herbaceous Wetlands
Erianthus brevibarbus	Short-beard plumegrass	G3G5		N/S1	Coastal Plain Ponds
$Lobelia\ elongata$	Elongated lobelia	G3G5		S1/S3	Open Canopy Herbaceous Wetlands
Pycnanthemum setosum	Awned mountain-mint	G3G5		SH/SH	Xeric Dune Communities
Amphicarpum purshi	Buel maiden-cane	G4		(S1)/S1	Riverine Wetlands
Carex barrattii	Barratt's sedge	G4		S3/S2	Coastal Plain ponds & Open Canopy Herbaceous Wetlands
Carex collinsii	Collin's sedge	G4		N/S1	Xeric Dune Communities
Carex gigantea	Giant sedge	G4		SH/S2	Freshwater Intertidal Wetlands
Carex venusta	Dark green sedge	G4		S3/S3	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Cleistes divaricata	Spreading pogonia	G4		S3/(S1)	Freshwater Intertidal Wetlands
Cyperus histricinus	Flat sedge	G4		S2/S2	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Desmodium strictum	Pinkland tick-trefoil	G4		S1/S4	Open Canopy Herbaceous Wetlands
Dichanthelium scabriusculum	Panicgrass	G4		S1/S2	Freshwater Intertidal Wetlands
Dichanthelium wrightianum	Wright's witchgrass	G4		S3/S1	Open Canopy Herbaceous Wetlands
Elatine americana	American waterwort	G4		S1/(SH)	Freshwater Intertidal Wetlands
Eleocharis brittoni	Britton's spike-rush	G4		S3/S4	Freshwater Intertidal Wetlands & Atlantic White Cedar Swamps
Eleocharis equisetoides	Knotted spike-rush	G4		N/S1	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Eleocharis melanocarpa	Black-fruited spike- rush	G4		N/S2	Riverine Wetlands
Eleocharis tricostata	Three-angle spike- rush	G4		S2/S1	Open Canopy Herbaceous Wetlands
Fuirena pumila	Smooth fuirena	G4		S2/S2	Freshwater Intertidal Wetlands
Gymnopogon ambiguous	Beardgrass	G4		S3/(S1)	Freshwater Intertidal Wetlands

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Helianthemum propinquum	Low frostweed	G4		S1/(S1)	Open Canopy Herbaceous Wetlands
Isoetes riparia	Riverbank quillwort	G4		S3/S1	Other Natural Communities
Lachnanthes caroliana	Carolina redroot	G4		S3/S4	Open Canopy Herbaceous Wetlands
Listera australis	Southern twayblade	G4		S3/S1	Freshwater Intertidal Wetlands
Lobelia canbyi	Canby's lobelia	G4		S1/N	Freshwater Intidal Wetlands & Coastal Plain Ponds
Lygodium palmatum	Climbing fern	G4		S1/S1	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Platanthera flava	Southern rein-orchid	G4		N/S1	Freshwater Intertidal Wetlands
Rhynchospora nitens	Short-beaked baldrush	G4		S3/S1	Coastal Plain Ponds
Rhynchospora nitens	Short-beaked baldrush	G4		S3/S1	Open Canopy Herbaceous Wetlands
Rhynchospora scirpoides	Long-beaked baldrush	G4		(S3)/S1	Other Natural Communities
Rhynchospora scirpoides	Long-beaked baldrush	G4		N/SH	Open Canopy Herbaceous Wetlands
Rhynchospora torreyana	Torrey's beak-rush	G4		S3/S1	Freshwater Intertidal Wetlands
Sagittaria subulata	Subulate arrowhead	G4		S2/S2	Open Canopy Herbaceous Wetlands
Sagittaria subulata	Subulate arrowhead	G4		S2/N	Freshwater Intertidal Wetlands
Sclerolepis uniflora	Pink bog-button	G4		SH/SX	Other Natural Communities
Utricularia radiata	Small swollen bladderwort	G4		S1/S1	Xeric Dune Communities
Utricularia resupinata	Reversed bladderwort	G4		S2/S2	Open Canopy Herbaceous Wetlands
Vaccinium macrocarpon	Large cranberry	G4		S1/S2	Open Canopy Herbaceous Wetlands
Hypericum gymnanthum	Clasping-leaved St. John's wort	G4?		N/S2	Xeric Dune Communities
Lespedeza stuevei	Tall bushclover	G4?		S2/S2	Coastal Plain Ponds
Paspalum dissectum	Walter paspalum	G4?		N/S2	Xeric Dune Communities
Triadenum walteri	Walter's St. John's wort	G4?		S1/S4	Atlantic White Cedar Swamps
$Agalinis\ setacea$	Thread-leaved gerardia	G4G5		S2/S1	Coastal Plain Ponds

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Aristida virgata	Wand-like three-awn	G4G5		S1/S1	Open Canopy Herbaceous Wetlands
Asclepias rubra	Red milkweed	G4G5		(S2)/S2	Coastal Plain Ponds
Carex joorii	Cyprus swamp sedge	G4G5		(S1)/S2	Open Canopy Herbaceous Wetlands
Carex styloflexa	Bent sedge	G4G5		(S1)/S1	Other Natural Communities
Ceratophyllum muricatum	Prickly hornwort	G4G5		S1/SH	Coastal Plain ponds
Desmodium obtusum	Stiff tick-trefoil	G4G5		S2/S2	Atlantic White Cedar Swamps
$Eleocharis\ robbinsii$	Robbin's spike-rush	G4G5		S3/(SH)	Other Natural Communities
Fraxinus profunda	Pumpkin ash	G4G5		N/S1	Xeric Dune Communities
Fuirena squarosa	Hairy umbrella sedge	G4G5		N/SH	Open Canopy Herbaceous Wetlands
Gratiola ramosa	Branching hedgehyssop	G4G5		(S1)/S1	Other Natural Communities
Iris prismatica	Slender blue flag	G4G5		S1/S2	Open Canopy Herbaceous Wetlands
Juncus elliottii	Bog rush	G4G5		(S1)/S2	Open Canopy Herbaceous Wetlands
Juncus militaris	Bayonet rush	G4G5		S1/SH	Xeric Dune Communities
Lobelia glandulosa	Glandular lobelia	G4G5		N/S1	Open Canopy Herbaceous Wetlands
Scirpus subterminalis	Water clubrush	G4G5		S1/S2	Open Canopy Herbaceous Wetlands
Smilax pseudochina	Long-stalk greenbriar	G4G5		SH/S2	Open Canopy Herbaceous Wetlands
Tephrosia spicata	Southern goat's rue	G4G5		N/S1	Riverine Wetlands
Toxicodendron pubescens	Poison oak	G4G5		S1/(S1)	Open Canopy Herbaceous Wetlands
$Utricularia\ fibrosa$	Fibrous bladderwort	G4G5		S1/S1	Open Canopy Herbaceous Wetlands
Rhynchospora fusca	Brown beak-rush	G4-G5		S1/N	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Sabatia diffornis	Two-formed pink	G4-G5		S2/S2	Other Natural Communities
Agalinis fasciculata	Fascicled gerardia	G5		S1S2/S1	Xeric Dune Communities
Asclepias lanceolata	Few-flowered milkweed	G5		S1/S1	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
$A ster\ spectabilis$	Showy aster	G5		S1/S1	Coastal Plain Ponds
Bidens connata	Purple-stem swamp beggarticks	G5		S1/S1	Xeric Dune Communities

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Bidens discoidea	Swamp beggarticks	G5		S1/S1	Open Canopy Herbaceous Wetlands
Boltonia asteroides	Aster-like boltonia	G5		S1/N	Xeric Dune Communities
Bromus latiglumis	Broad-glumed brome	G5		S3/S4	Other natural communities
Campanula aparinoides	Marsh bellflower	G5		S3/N	Open Canopy Herbaceous Wetlands
Carex complanata	Hirsute sedge	G5		N/S1	Xeric Dune Communities
Carex lacustris	Lake-bank sedge	G5		N/S2	Other Natural Communities
Centella erecta	Erect coinleaf	G5		SH/S1	Other Natural Communities
Centrosema virginianum	Coastal butterfly-pea	G5		S1/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Chasmanthyium latifolium	Indian sea-oats	G5		S1/S1	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Cladium mariscoides	Twig rush	G5		S1/S1	Open Canopy Herbaceous Wetlands
Clitora mariana	Maryland butterfly-pea	G5		N/S2	Xeric Dune Communities
Coelorachis rugosa	Wrinkled joint-grass	G5		S3/(S3)	Open Canopy Herbaceous Wetlands
Commelina virginica	Virginia dayflower	G5		S2/S1	Open Canopy Herbaceous Wetlands
Comptonia peregrina	Sweet fern	G5		S1/S3	Open Canopy Herbaceous Wetlands
Cyperus retrofractus	Rough cyperus	G5		N/S2	Xeric Dune Communities
Desmodium glabellum	Dillen tick-trefoil	G5		S1/(S1)	Riverine Wetlands
Desmodium laevigatum	Smooth tick-trefoil	G5		S2/S2	Riverine Wetlands
Drosera rotundifolia	Round-leaf sundew	G5		SH/S1	Open Canopy Herbaceous Wetlands
Elatine minima	Small waterwort	G5		S3S4/S2	Other Natural Communities
Eleocharis acicularis	Least spike-rush	G5		S1/S1	Open Canopy Herbaceous Wetlands & Freshwater Intertidal Wetlands
Eleocharis tortilis	Twisted spike-rush	G5		SU/(SH)	Open Canopy Herbaceous Wetlands
Equisetum hyemale	Rough horsetail	G5		(SH)/S1	Other Natural Communities
Eragrostis hirsuta	A love grass	G5		S1/N	Open Canopy Herbaceous Wetlands
Eragrostis refracta	Meadow love grass	G5		(S1)/S1	Xeric Dune Communities
Erianthus contortus	Bent-awn plumegrass	G5		S1/S1	Open Canopy Herbaceous Wetlands

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Eriocaulon compressum	Flattened pipewort	G5		S2/S1	Open Canopy Herbaceous Wetlands
Eriocaulon decangulare	Ten-angle pipewort	G5		S2/S2	Open Canopy Herbaceous Wetlands
Eriocaulon septangulare	Seven-angle pipewort	G5		S1/S1	Coastal Plain Ponds
Eupatorium album	White boneset	G5		N/S1	Open Canopy Herbaceous Wetlands
Eupatorium leucolepis	White-bracted boneset	G5		S1/S2	Open Canopy Herbaceous Wetlands
Gentiana catesbaei	Catesby's gentian	G5		S1/SH	Open Canopy Herbaceous Wetlands
Glyceria canadensis	Canada manna-grass	G5		S1/S2S3	Freshwater intertidal wetlands & Coastal Plain ponds
Helianthus angustifolius	Swamp sunflower	G5		SH/S1	Freshwater Intertidal Wetlands
Hydrocotyle verticillata var. triradiata	Whorled pennywort	G5		S3/S2	Open Canopy Herbaceous Wetlands
Hypericum boreale	Northern St. John's wort	G5		S1/S1	Xeric Dune Communities
Hypericum densiflorum	Bushy St. John's wort	G5		S1/S1	Open Canopy Herbaceous Wetlands
Hypericum denticulatum	Coppery St. John's wort	G5		S1/S4	Xeric Dune Communities
Juncus coriaceus	Leathery rush	G5		S3/S2	Freshwater Intertidal Wetlands & Riverine Wetlands
Juncus pelocarpus	Brown-fruited rush	G5		S2/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Juncus torreyi	Torrey's rush	G5		S3/S1	Atlantic White Cedar Swamps
Kalmia angustifolia	Sheep laurel	G5		S1/S1	Open Canopy Herbaceous Wetlands
Lechea mucronata	Hairy pinweed	G5		S1/S1	Xeric Dune Communities
Lemna perpusilla	Minute duckweed	G5		S3/S2	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Leptoloma cognatum	Mountain hairgrass	G5		N/SH	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Lespedeza angustifolia	Narrow-leaf bushclover	G5		S1/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Ludwigia hirtella	Hairy ludwigia	G5		N/S3	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Lupinus perennis	Wild lupine	G5		S1/S1	Open Canopy Herbaceous Wetlands
Lycopodium dendriodeum	Ground pine	G5		S1/S1	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Lycopodium tristachyum	Deep-root clubmoss	G5		S1S2/S2	Riverine Wetlands
Lycopus amplectens	Sessile-leaved bugleweed	G5		S1/S1	Other Natural Communities
Lysimachia hybrida	Lowland loosestrife	G5		S1/(S1)	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Melanthium virginicum	Virginia bunchflower	G5		S1/SH	Xeric Dune Communities
Myrica heterophylla	Evergreen bayberry	G5		N/S1	Other natural communities
Myriophyllum humile	Low water-milfoil	G5		S3S4/S2	Xeric Dune Communities
Nymphoides aquatica	Larger floating-heart	G5		S1/S1	Open Canopy Herbaceous Wetlands
Oldenlandia uniflora	Clustered bluets	G5		N/S1	Xeric Dune Communities
Panicum oligosanthes	Heller's witchgrass	G5		N/S1	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Panicum ravenelii	Ravenel's witchgrass	G5		S3/S1	Xeric Dune Communities
Passiflora incarnata	Purple passion flower	G5		S3/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Platanthera cristata	Crested yellow orchid	G5		S1S2/S4	Xeric Dune Communities
Platanthera lacera	Green-fringed orchid	G5		S2S3/(S4)	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
$Pogonia\ ophioglossoides$	Rose pogonia	G5		(S3)/S2S3	Other Natural Communities
Polygala cruciata	Cross-leaved milkwort	G5		(S1)/S1	Atlantic White Cedar Swamps & Open Canopy Herbaceous Wetlands
Polygata incarnata	Pink milkwort	G5		(SH)/S1	Open Canopy Herbaceous Wetlands
Polypodium polypodiodes	Resurrection fern	G5		S1/S1	Atlantic white cedar swamps
Quercus lyrata	Overcup oak	G5		S3/S2	Open Canopy Herbaceous Wetlands
Quercus marilandica	Blackjack oak	G5		S2S3/(S1)	Freshwater Intertidal Wetlands
Ranunculus pensylvanicus	Bristly crowoot	G5		S2/(S3S4)	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Rhynchospora alba	Pale beak-rush	G5		S1/S2	Open Canopy Herbaceous Wetlands
Rhynchospora cephalantha	Captate beak-rush	G5		N/SH	Other Natural Communities
Rhynchospora cephalantha	Captate beak-rush	G5		N/S2	Xeric Dune Communities
Rhynchospora globularis	Grass-like beak-rush	G5		S1/S4	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Rhynchospora glomerata	Clustered beak-rush	G5		(S3)/S1	Xeric Dune Communities
Rhynchospora glomerata	Clustered beak-rush	G5		S3/S1	Other Natural Communities
Rhynchospora gracilenta	Slender beak-rush	G5		S1/S2	Coastal Plain Ponds
Rhynchospora gracilenta	Slender beak-rush	G5		S1/S2	Open Canopy Herbaceous Wetlands
Rotala ramosior	Toothcup	G5		(S1)/S2	Other Natural Communities
Sabatia campanulata	Slender marsh pink	G5		S2/S2	Coastal Plain Ponds
Sagittaria calycina	Spongy lophotocarpus	G5		S3/S1	Riverine Wetlands
Sagittaria calycina	Spongy lophotocarpus	G5		SH/SRF	Open Canopy Herbaceous Wetlands
Sarracenia purpurea	Northern pitcher-plant	G5		SH/SH	Other Natural Communities
Sarracenia purpurea	Northern pitcher-plant	G5		S1/S1	Coastal Plain ponds
Scirpus cylindricus	Salt marsh bulrush	G5		S3/S2	Atlantic White Cedar Swamps
Scleria pauciflora	Few-flowered nutrush	G5		S1/S2	Open Canopy Herbaceous Wetlands
Scleria reticularis	Reticulated nutrush	G5		N/S3	Other natural communities
Scleria reticularis	Reticulated nutrush	G5		S3/S1	Open canopy herbaceous wetlands
Scleria triglomerata	Whip nutrush	G5		S3/S4	Open Canopy Herbaceous Wetlands
Scleria triglomerata	Whip nutrush	G5		S1/S1	Open Canopy Herbaceous Wetlands
Smilax walteri	Red-berried greenbriar	G5		SU/S1	Other Natural Communities
Smilax walteri	Red-berried greenbriar	G5		S2/S1	Freshwater Intertidal Wetlands, Atlantic White Cedar Swamps, Open Canopy Herbaceous Wetlands
Solidago speciosa	Showy goldenrod	G5		S1/S1	Open Canopy Herbaceous Wetlands

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Solidago stricta	Wandlike goldenrod	G5		S1/S1	Xeric Dune Communities
Spirodela punctata	Duck-weed	G5		S1/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Symplocus tinctoria	Horse-sugar	G5		S3/S1	Xeric Dune Communities
Taxodium distichum	Bald cypress	G5		S3/S3	Freshwater Intertidal Wetlands
Thelypteris simulata	Bog fern	G5		S1/S4	Freshwater Intertidal Wetlands
Trichosterna setaceum	Narrow-leaved blue curls	G5		S3/(S1)	Freshwater Intertidal Wetlands
Utricularia biflora	Two-flower bladderwort	G5		N/S1	Open Canopy Herbaceous Wetlands
Utricularia gibba	Humped bladderwort	G5		S3/(S1)	Open Canopy Herbaceous Wetlands
Utricularia inflata	Swollen bladderwort	G5		(S3)/S1	Xeric Dune Communities
Utricularia juncea	Southern bladderwort	G5		S2/(S2)	Freshwater Intertidal Wetlands
Utricularia purpurea	Purple bladderwort	G5		S2/S5	Xeric Dune Communities
Utricularia subulata	Zig-zag bladderwort	G5		S1/S1	Open Canopy Herbaceous Wetlands
Xyris fimbriata	Fringed yellow-eyed grass	G5		S2/S2	Freshwater Intertidal Wetlands & Riverine Wetlands
Xyris smalliana	Small's yellow-eyed grass	G5		(SH)/S1	Open Canopy Herbaceous Wetlands
Desmodium viridiflorum	Velvety tick-trefoil	G5?		N/S2	Other Natural Communities
Panicum hemitomun	Maidencane	G5?		N/S2	Xeric Dune Communities
Sagittaria engelmanniana	Engelmann's arrowhead	G5?		S2/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Sagittaria lancifolia	Bull-tongued arrowhead	G5?		N/S2	Freshwater Intertidal Wetlands & Atlantic White Cedar Swamps
Sagittaria lancifolia	Bull-tongued arrowhead	G5?		(S3)/S2	Other Natural Communities
Scirpus smithii	Smith's bullrush	G5?		SH/S2	Open Canopy Herbaceous Wetlands
Panicum columbianum	Hemlock panicgrass	G5Q		SH/S1	Other Natural Communities
Salicornia bigelovii	Dwarf glasswort	G5Q		S1/S2	Coastal Plain Ponds & Open Canopy Herbaceous Wetlands
Chameacrista fasciculata var. macrosperma	Marsh wild senna	G5T2Q		(S1)/S2	Xeric Dune Communities

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
PLANTS CONTINUED					
Panicum commonsianum	Common's panicgrass	G5T4		N/S1	Xeric Dune Communities
Gaylussacia dumosa var. bigeloviana	Huckleberry	G5T4T5		N/S2	Other Natural Communities
Chimaphila umbellata ssp.cisatlantica	Common wintergreen	G5T5		S2/N	Xeric Dune Communities
Commelina erecta var. angustifolia	Slender dayflower	G5T5		SH/(SH)	Other Natural Communities
Melampyrum lineare var. pectinatum	Cow-wheat	G5T5		N/S1	Xeric Dune Communities
Micranthemum micranthemoides	Nuttall's micranthemum	GH		N/S2S3	Other Natural Communities
ANIMALS					
Acantharchus pornotis	Mud sunfish	G5		N/S1	
Acipenser brevirostrum	Shortnose sturgeon	G3	LE	S1	
Acipenser oxyrhynchus	Atlantic sturgeon	G3		S2/S2	
Agkistrodon contortrix	Northern copperhead	G5		S1/N	
Ambystoma tigrinum	Eastern tiger salamander	G5		N/S1	
Ammodranus henslowii	Henslow's sparrow	G4		S2/(S2)	
Anodonta implicata	Alewife floater	G5		S1S2/SHB	
Apeltes quadracus	Fourspine stickleback	G5		N/S1	
Ardea herodias	Great blue heron	G5		N/SH	
Argia bipunctulata	Seepage dancer	G4		N/S2B	
Atrytonopsis hianna	Dusted skipper	G4G5		N/S1	
Bartramia longicauda	Upland sandpiper	G5		N/S1	
Battus philenor	Pipevine swallowtail	G5		S1/SHB	
Boloria selene myrina	Silver-bordered fritillary	G5T5		N/S2	
Botaurus lentiginosus	American bittern	G4		S3/(S1)	
Buteo lineatus	Red-shouldered hawk	G5		S2/(S1B,SZN)	
Caretta caretta	Atlantic loggerhead turtle	G3	LT	S1B	
Cemophora coccinea	Scarlet snake	G5		N/S2B,SZN	
Chelonia mydas	Atlantic green turtle	G3	LT	S1N	
Chordeiles minor	Common nighthawk	G5		S3/SH	

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
ANIMALS CONTINUED					
Cicindela dorsalis dorsalis	Northeastern beach tiger beetle	G4T2	LT	S1	
Circus cyaneus	Northern harrier	G5		S3S4B/S2B	
Cistothorus platensis	Sedge wren	G5		S2/(S1B)	
Clemmys guttata	Spotted turtle	G5		S2/N	
Coccyzus erythopthalmus	Black-billed cuckoo	G5		N/S3	
Cottus bairdi	Mottled sculpin	G5		N/S1B	
Dendroica dominica	Yellow-throated warbler	G5		N/S1	
Dermochelys coriacea	Atlantic leatherback turtle	G3	LE	S1	
Egretta caerulea	Little blue heron	G5		N/S2B	
Elaphe guttata	Corn snake	G5		S2S3/S1B	
Elliptio fisheriana	Northern lance	G4		N/S1	
Enneacanthus chaetodon	Black-banded sunfish	G5		N/S2	
Enneacanthus obesus	Banded sunfish	G5		S1/S1	
Eretmochelys imbricata	Atlantic hawksbill turtle	G3	LE	SRN	
Etheostorna vitreum	Glassy darter	G4		N/S2	
Falco columbarius	Merlin	G4		S1/N	
Falco peregrinus	Peregrine falcon	G3		N/S2N	
Gastrophryne carolinensis	Eastern narrow-mouthed toad	G5		S1/(S1N,SEB)	
Gavia immer	Common loon	G5		S1S2/N	
Gomphaeschna furcillata	Harlequin darner	G5		N/S2N	
Haliaeetus leucocephalus	Bald Eagle	G4	LT	N/S1	
Hemileuca maia	Woodland buck moth	G4		S2S3/S1B	
Hesperia metea	Cobweb skipper	G4G5		N/S3	
Himantopus mexicanus	Black-necked stilt	G5		N/SU	
Hyla chrysoscelis	Cope's gray treefrog	G5		N/S2B	
Incisalia irus	Frosted elfin	G4		N/S2	
Lampetra aepyptera	Least brook lamprey	G5		S1/S1	
Lampropeltis getula	Eastern kingsnake	G5		N/S2	
Lampsilis radiata	Eastern lampmussel	G5		N/S2	
Lanius ludovicianus	Loggerhead shrike	G4		SU/SH	

Scientific name	Common name	Global rank	Federal status	State rank (MD/DE)	Community type
ANIMALS CONTINUED					
Laterallus jamaicensis	Black rail	G4?		S1/SHB,SHN	
Lepidochelys kempii	Atlantic ridley turtle	G1	LE	S1N	
Melanerpes erythrocephalus	Red-headed woodpecker	G5		S2?/(S1B)	
Mitoura grynea	Olive hairstreak	G5		N/S1B	
Mitoura hesseli	Hessel's hairstreak	G3G4		N/S2	
Moxostoma macrolepidotum	Shorthead redhorse	G5		SH/S1	
Notropis amoenus	Comely shiner	G5		N/S2	
Notropis chalybaeus	Iron-color shiner	G5		N/S2	
Opheodrys aestivus	Rough green snake	G5		N/S2	
Poanes arroni aaroni	Saffron skipper	G4T4		N/S2	
Poanes massasoit	Mulberry wing	G4		N/SU	
Podilymbus podiceps	Pied-billed grebe	G5		N/S1	
Problema bulenta	Rare skipper	G2G3		S2/S2B,S2N	
Pseudotriton montanus	Eastern mud salamander	G5		S1/(S1)	
Rana virgatipes	Carpenter frog	G5		N/S1	
Riparia riparia	Bank swallow	G5		S2/(S1)	
Satyrium kingi	King's hairstreak	G3G4		N/S2B	
Scincella lateralis	Ground skink	G5		S1S2/(S1)	
Sciurus niger cinereus	Delmarva fox squirrel	G5T3	LE	N/S1	
Septophaga ruticilla	American redstart	G5		S1/(S1)	
Sitta carolinensis	White-breasted nuthatch	G5		N/S2B	
Sterna antillarum	Least tern	G4		N/S2B,S5N	
Storeria dekayi	Northern brown snake	G5		S2/(S1B)	
Storeria occipitomaculata	Northern redbelly snake	G5		N/S3	
Strix varia	Barred owl	G5		N/S1	
Virginia valeriae	Smooth earth snake	G5		N/S2	

Explanation of Global and State Species Ranks

Originally developed and instituted by The Nature Conservancy, an international conservation organization, the global and state ranking system is used by all 50 State Natural Heritage Programs and numerous Conservation Data Centers in other countries in this hemisphere. Because they are assigned based upon standard criteria, the ranks can be used to assess the range-wide status of a species as well as the status within portions of the species' range. The primary criterion used to define these ranks are the number of known distinct occurrences with

consideration given to the total number of individuals at each locality. Additional factors considered include the current level of protection, the types and degree of threats, ecological vulnerability, and population trends. Global and state ranks are used in combination to set inventory, protection, and management priorities for species both at the State as well as regional level.

Global Ranks

- **G1** Highly globally rare. Critically imperiled globally because of extreme rarity (typically 5 or fewer estimated occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.
- **G2** Globally rare. Imperiled globally because of rarity (typically 6 to 20 estimated occurrences or few remaining individuals or acres) or because of some factor(s) making it very vulnerable to extinction throughout its range.
- G3 Either very rare and local throughout its range or distributed locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; typically with 21 to 100 estimated occurrences.
- G4 Apparently secure globally, although it may be quite rare in parts of its range, especially at the periphery.
- G5 Demonstrably secure globally, although it may be quite rare in parts of its range, especially at the periphery.
- **GH** No known extant occurrences (i.e., formerly part of the established biota, with the expectation that it may be rediscovered).
- GU Possibly in peril range-wide, but its status is uncertain; more information is needed.
- GX Believed to be extinct throughout its range (e.g., passenger pigeon) with virtually no likelihood that it will be rediscovered.
- **G?** The species has not yet been ranked.
- _Q Species containing a "Q" in the rank indicates that the taxon is of questionable or uncertain taxonomic standing (i.e., some taxonomists regard it as a full species, while others treat it at an infraspecific level).
- T Ranks containing a "T" indicate that the infraspecific taxon is being ranked differently than the full species.

State Ranks

- S1 Highly State rare. Critically imperiled in Maryland because of extreme rarity (typically 5 or fewer estimated occurrences or very few remaining individuals or acres in the State) or because of some factor(s) making it especially vulnerable to extirpation. Species with this rank are actively tracked by the Wildlife and Heritage Division (WHD).
- S2 State rare. Imperiled in Maryland because of rarity (typically 6 to 20 estimated occurrences or few remaining individuals or acres in the State) or because of some factor(s) making it vulnerable to becoming extirpated. Species with this rank are actively tracked by WHD.

- S3 Watch List. Rare to uncommon with the number of occurrences typically in the range of 21 to 100 in Maryland. It may have fewer occurrences but with a large number of individuals in some populations, and it may be susceptible to large-scale disturbances. Species with this rank are not actively tracked by WHD.
- S3.1 A "Watch List" species that is actively tracked by WHD because of the global significance of Maryland occurrences. For instance, a G3 S3 species is globally rare to uncommon, and although it may not be currently threatened with extirpation in Maryland, its occurrences in Maryland may be critical to the long term security of the species. Therefore, its status in the State is being monitored.
- S4 Apparently secure in Maryland with typically more than 100 occurrences in the State or may have fewer occurrences if they contain large numbers of individuals. It is apparently secure under present conditions, although it may be restricted to only a portion of the State.
- S5 Demonstrably secure in Maryland under present conditions.
- SA Accidental or a vagrant in Maryland.
- SE Established, but not native to Maryland; it may be native elsewhere in North America.
- **SH** Historically known from Maryland, but not verified for an extended period (usually 20 or more years), with the expectation that it may be rediscovered.
- **SP** Potentially occurring in Maryland or likely to have occurred in Maryland (but without persuasive documentation).
- **SR** Reported from Maryland, but without persuasive documentation that would provide a basis for either accepting or rejecting the report (e.g., no voucher specimen exists).
- SRF Reported falsely (in error) from Maryland, and the error may persist in the literature.
- SU Possibly rare in Maryland, but of uncertain status for reasons including lack of historical records, low search effort, cryptic nature of the species, or concerns that the species may not be native to the State. Uncertainty spans a range of 4 or 5 ranks as defined above.
- **SX** Believed to be extirpated in Maryland with virtually no chance of rediscovery.
- S? The species has not yet been ranked.
- S? A question mark after another rank indicates uncertainty regarding that rank.

State Status

This is the status of a species as determined by the Maryland Department of Natural Resources, in accordance with the Nongame and Endangered Species Conservation Act. Definitions for the following categories have been taken from Code of Maryland Regulations (COMAR) 08.03.08.

- **E** Endangered; a species whose continued existence as a viable component of the State's flora or fauna is determined to be in jeopardy.
- I In Need of Conservation; an animal species whose population is limited or declining in the State such that it may become threatened in the foreseeable future if current trends or conditions persist.

T Threatened; a species of flora or fauna which appears likely, within the foreseeable future, to become endangered in the State.

X Endangered Extirpated; a species that was once a viable component of the flora or fauna of the State, but for which no naturally occurring populations are known to exist in the State.

* A qualifier denoting the species is listed in a limited geographic area only.

Federal Status

This is the status of a species as determined by the U.S. Fish and Wildlife Service Office of Endangered Species, in accordance with the Endangered Species Act. Definitions for the following categories have been modified from 50 CFR 17.

LE Taxa listed as endangered; in danger of extinction throughout all or a significant portion of their range.

LT Taxa listed as threatened; likely to become endangered within the foreseeable future throughout all or a significant portion of their range.

PE Taxa proposed to be listed as endangered.

PT Taxa proposed to be listed as threatened.

C Candidate taxa for listing for which the Service has on file enough substantial information on biological vulnerability and threat(s) to support proposals to list them as endangered or threatened.