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## Rare Animals and Plants of Southern Appalachain Wetlands

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Southern bog lemming (*Synaptomys cooperi*).

**Table I**  
**Rare Animals of Southern Appalachian Wetlands\***

SPECIES	HABITATS				
	Bogs**	Swamps	Ephemeral Pools	Swamp Forest	Wet Meadows
mole salamander ( <i>Ambystoma talpoideum</i> )			✓	✓	✓
bog turtle ( <i>Clemmys muhlenbergii</i> )	✓				✓
star-nosed mole ( <i>Condylura cristata parva</i> )	✓	✓	✓	✓	✓
Baltimore butterfly ( <i>Euphydryas phaeton</i> )	✓				✓
four-toed salamander ( <i>Hemidactylum scutatum</i> )	✓	✓	✓	✓	✓
Diana fritillary ( <i>Speyeria diana</i> )	✓				✓
Southern bog lemming ( <i>Synaptomys cooperi</i> )	✓				✓

\* Species listed may be state or federally listed, for more information consult your state agency listed in Appendix F.

\*\* Southern Appalachian Bog. See Chapter 2.

**Table II**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
bog rose ( <i>Arethusa bulbosa</i> )	✓					
bog jack-in-the-pulpit ( <i>Arisaema triphyllum</i> ssp. <i>stewardsonii</i> )	✓			✓	✓	✓
blunt-lobed grape fern ( <i>Botrychium oneidense</i> )	✓					
fringed brome ( <i>Bromus ciliatus</i> )			✓	✓		
marsh marigold ( <i>Caltha palustris</i> )	✓					✓
marsh bellflower ( <i>Campanula aparinoides</i> )	✓	✓				
Mountain bittercress ( <i>Cardamine clematitis</i> )				✓		
Mountain watercress ( <i>Cardamine rotundifolia</i> )				✓		

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
hay sedge ( <i>Carex argyranthra</i> )						✓
Barratt's sedge ( <i>Carex barrattii</i> )	✓			✓?		
brown bog sedge ( <i>Carex buxbaumii</i> )	✓	✓				✓
cone-shaped sedge ( <i>Carex conoidea</i> )	✓					✓
small crested sedge ( <i>Carex cristatella</i> )	✓					
a sedge ( <i>Carex deflexa</i> )				✓		
a sedge ( <i>Carex lasiocarpa</i> var. <i>amaericana</i> )	✓					
Oklahoma sedge ( <i>Carex oklahomensis</i> )					✓	
few-seeded sedge ( <i>Carex oligosperma</i> )	✓				✓	
necklace sedge ( <i>Carex projecta</i> )	✓		✓	✓	✓	✓
Schweinitz's sedge ( <i>Carex schweinitzii</i> )						✓
a sedge ( <i>Carex trichocarpa</i> )	✓					
three-seeded sedge ( <i>Carex trisperma</i> )	✓	✓			✓	
a sedge ( <i>Carex utriculata</i> )	✓					
a sedge ( <i>Carex vesicaria</i> )	✓	✓				
Cuthbert's turtlehead ( <i>Chelone cuthbertii</i> )	✓	✓		✓	✓	✓
twig-rush ( <i>Cladium marisoides</i> )	✓	✓		✓		
Long-bracted frog sedge ( <i>Coeloglossum viride</i> var. <i>virescens</i> )				✓		

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
Goldthread ( <i>Coptis trifoliata</i> ssp. <i>groenlandica</i> )	✓					
robin runaway ( <i>Dalibarda repens</i> )	✓				✓	
bog oatgrass ( <i>Danthonia epilis</i> )	✓	✓		✓		
purpleleaf willowherb ( <i>Epilobium ciliatum</i> )	✓	✓		✓		
Texas hatpins ( <i>Eriocaulon texense</i> )				✓		
queen-of-the-prairie ( <i>Filipendula rubra</i> )		✓				✓
fringed gentian ( <i>Gentianopsis crinita</i> )		✓	✓	✓		
yellow avens ( <i>Geum aleppicum</i> )	✓					
Bent avens ( <i>Geum geniculatum</i> )				✓		
rough avens ( <i>Geum laciniatum</i> var. <i>trichocarpum</i> )	✓					
rattlesnake mannagrass ( <i>Glyceria canadensis</i> )	✓					
lax mannagrass ( <i>Glyceria laxa</i> )	✓	✓				✓
Smoky Mountain mannagrass ( <i>Glyceria nubigena</i> )			✓			
littleleaf sneezeweed ( <i>Helenium brevifolium</i> )		✓		✓		
plains sunrose ( <i>Helianthemum bicknellii</i> )		✓				
swamp pink ( <i>Helonias bullata</i> )	✓				✓	
holy grass ( <i>Hierochloe odorata</i> )	✓	✓				
Appalachian fir-clubmoss ( <i>Huperzia appalachiana</i> )		✓	✓	✓		

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
long-stalked holly ( <i>Ilex collina</i> )	✓	✓			✓	
rough rush ( <i>Juncus caesariensis</i> )		✓				
rough blazing star ( <i>Liatris aspera</i> )			✓			
Heller's blazing star ( <i>Liatris helleri</i> )			✓			
yellow Canada lily ( <i>Lilium canadense</i> ssp. <i>canadense</i> )	✓	✓				✓
red Canada lily ( <i>Lilium canadense</i> ssp. <i>editorum</i> )	✓	✓				✓
Gray's lily ( <i>Lilium grayi</i> )	✓	✓	✓	✓		✓
Fen orchid ( <i>Liparis loeselii</i> )		✓		✓		
American fly-honeysuckle ( <i>Lonicera canadensis</i> )	✓	✓				
bog clubmoss ( <i>Lycopodiella inundata</i> )	✓					
a clubmoss ( <i>Lycopodium dendroideum</i> )	✓	✓				
Hickey's clubmoss ( <i>Lycopodium hickeyi</i> )	✓	✓				
largeflower Barbara's buttons ( <i>Marshallia grandiflora</i> )	✓					
buckbean ( <i>Menyanthes trifoliata</i> )	✓					
bristly muhly ( <i>Muhlenbergia glomerata</i> )		✓		✓		
sweet gale ( <i>Myrica gale</i> )	✓					
bog asphodel ( <i>Narthecium americanum</i> )	✓					
perennial sundrops ( <i>Oenothera perennis</i> )	✓					

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
largeleaf grass-of-Parnassus ( <i>Parnassia grandifolia</i> )		✓		✓		
swamp lousewort ( <i>Pedicularis lanceolata</i> )		✓		✓	✓	
northern beech fern ( <i>Phegopteris connectilis</i> )			✓			
northern rein orchid ( <i>Platanthera flava</i> var. <i>herbiola</i> )		✓				
large purple-fringed orchid ( <i>Platanthera grandiflora</i> )	✓		✓	✓		
white fringless orchid ( <i>Platanthera integrilabia</i> )	✓			✓		
purple fringless orchid ( <i>Platanthera peramoena</i> )	✓					✓
bog bluegrass ( <i>Poa paludigena</i> )	✓					
white beakrush ( <i>Rhynchospora alba</i> )	✓	✓				
bunched arrowhead ( <i>Sagittaria fasciculata</i> )	✓				✓	
Canada burnet ( <i>Sanguisorba canadensis</i> )		✓	✓	✓		✓
mountain sweet pitcher plant ( <i>Sarracenia rubra</i> ssp. <i>jonesii</i> )	✓					
green pitcher plant ( <i>Sarracenia oreophila</i> )	✓			✓		
swamp saxifrage ( <i>Saxifraga pensylvanica</i> )	✓			✓		
balsam ragwort ( <i>Senecio pauperculus</i> )	✓	✓				
bog goldenrod ( <i>Solidago uliginosa</i> )	✓	✓		✓		
greenfruit bur-reed ( <i>Sparganium chlorocarpum</i> )	✓					✓?
freshwater cordgrass ( <i>Spartina pectinata</i> )						✓

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
shining ladies'-tresses ( <i>Spiranthes lucida</i> )		✓				
Epling's hedge-nettle ( <i>Stachys eplingii</i> )	✓					
longstalk starwort ( <i>Stellaria alsine</i> )				✓		
bog featherbells ( <i>Stenanthium robustum</i> )	✓	✓				✓
Canada yew ( <i>Taxus canadensis</i> )	✓				✓	
bog fern (Massachusetts fern) ( <i>Thelypteris simulata</i> )	✓					
sticky bog asphodel ( <i>Tofieldia glutinosa</i> )	✓	✓		✓		
small bladderwort ( <i>Utricularia minor</i> )	✓					
cranberry ( <i>Vaccinium macrocarpon</i> )	✓			✓		
American speedwell ( <i>Veronica americana</i> )	✓			✓		
<b>Mosses</b>						
yellow starry fen moss ( <i>Campylium stellatum</i> var. <i>stellatum</i> )		✓				
liverwort ( <i>Cephaloziella hampeana</i> )		✓				
bog broom-moss ( <i>Dichranum undulatum</i> )	✓			✓		
narrowleaf peatmoss ( <i>Sphagnum angustifolium</i> )	✓					
northern peatmoss ( <i>Sphagnum capillifolium</i> )	✓					
pretty peatmoss ( <i>Sphagnum fallax</i> )	✓					
flexuous peatmoss ( <i>Sphagnum flexuosum</i> var. <i>flexuosum</i> )	✓					

**Table II, continued**  
**Rare Plants of Southern Appalachian Wetlands\***

SPECIES	HABITATS					
	Bogs**	Fens	High Elevation Seeps	Seeps	Swamp Forest	Wet Meadows
brown peatmoss ( <i>Sphagnum fuscum</i> )	✓					
fen peatmoss ( <i>Sphagnum warnstorffii</i> )	✓	✓				
southern dung moss ( <i>Splachnum pennsylvanicum</i> )	✓					
orange peatmoss ( <i>Sphagnum subsecundum</i> var. <i>subsecundum</i> )	✓	✓				

\* Species listed may be state or federally listed; for more information consult your state agency listed in Appendix D. Some of these species occur in other habitats in addition to mountain wetlands.

\*\* Southern Appalachian Bog. See Chapter 2.

✓? Highly likely but warrants further study.