

## Appendix B. Species of Greatest Conservation Need With No Known Ecoregional Associations

The following species occur in Virginia. However, their specific locations are not known at this time, and so they were unable to be attributed with ecoregions.

Common Name	Scientific Name
<b>Tier I</b>	
None	
<b>Tier II</b>	
<b>Aquatic Mollusks</b>	
Spider Elimia	<i>Elimia archanoidea spinella</i>
<b>Crustaceans</b>	
Bland County amphipod	<i>Crangonyx fontinalis</i>
Finley's cave amphipod	<i>Stygobromus finleyi</i>
<b>Aquatic Insects</b>	
Tarter's Ameletus mayfly	<i>Ameletus tarteri</i>
A limnephilid caddisfly	<i>Anabolia apora</i>
Skillet clubtail	<i>Gomphus ventricosus</i>
Pygmy snaketail	<i>Ophiogomphus howei</i>
A rhyacophilid caddisfly	<i>Rhyacophila tricornuta</i>
Elusive clubtail	<i>Stylurus notatus</i>
<b>Other Aquatic Invertebrates</b>	
A cave lumbriculid worm	<i>Spelaedrillus multiporus</i>
A groundwater planarian	<i>Sphalloplana hypogea</i>
<b>Terrestrial Insects</b>	
A cave pselaphid beetle	<i>Arianops jeanneli</i>
A cave springtail	<i>Arrhopalites carolynae</i>
A cave springtail	<i>Arrhopalites commorus</i>
A rove beetle	<i>Atheta troglaphila</i>
Persius duskywing	<i>Erynnis persius persius</i>
Dotted skipper	<i>Hesperia attalus slossonae</i>
<b>Other Terrestrial Invertebrates</b>	
A millipede	<i>Aniulus orientalis</i>
A funnel-web spider	<i>Barronopsis jefferesi</i>
A millipede	<i>Brachoria insolita</i>
Keeton's millipede	<i>Brachoria laminata</i>
Collinwood millipede	<i>Brachoria mendota</i>
Faithful millipede	<i>Cleidogona fidelitor</i>
Blowing Rock millipede	<i>Cleidogona medialis</i>
Aeto millipede	<i>Conotyla aeto</i>

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<b>Common Name</b>	<b>Scientific Name</b>
Celero millipede	<i>Conotyla celero</i>
Melinda millipede	<i>Conotyla melinda</i>
Venetia millipede	<i>Conotyla venetia</i>
A cave mite	<i>Foveacheles paralleloseta</i>
Brown globelet	<i>Inflectarius kalmianus</i>
A cave spider	<i>Islandiana muma</i>
Duke Forest xystodesmid millipede	<i>Nannaria conservata</i>
Smith Creek xystodesmid millipede	<i>Nannaria laminata</i>
Shenandoah Mountain xystodesmid millipede	<i>Nannaria shenandoah</i>
A millipede	<i>Nannaria simplex</i>
Holsinger's cave spider	<i>Nesticus holsingeri</i>
A cave spider	<i>Nesticus paynei</i>
A cave spider	<i>Nesticus tennesseensis</i>
Funnel supercoil	<i>Paravitrea mira</i>
Round supercoil	<i>Paravitrea reesei</i>
A millipede	<i>Pseudotremia armesi</i>
A millipede	<i>Pseudotremia momus</i>
South Branch Valley cave millipede	<i>Pseudotremia princeps</i>
A millipede	<i>Pseudotremia tuberculata</i>
A millipede	<i>Striaria causeyae</i>
A millipede	<i>Striaria columbiana</i>
A millipede	<i>Striaria granulosa</i>
A millipede	<i>Trichopetalum dux</i>
Delicate vertigo	<i>Vertigo bollesiana</i>

**Tier III**

**Aquatic Mollusks**

Blue Ridge springsnail	<i>Fontigens orolibas</i>
Glossy covert	<i>Fumonelix christyi</i>
Pygmy slitmouth	<i>Stenotrema pilula</i>
Crossed dome	<i>Ventridens decussatus</i>

**Crustaceans**

An amphipod	<i>Crangonyx acicularis</i>
An amphipod	<i>Crangonyx montanus</i>

**Aquatic Insects**

Southern springfly	<i>Cultus decisus isolatus</i>
Berner's Ephemerella mayfly	<i>Ephemerella berneri</i>
A mayfly	<i>Ephemerella inconstans</i>
Spine-crowned clubtail	<i>Gomphus abbreviatus</i>
Rapids clubtail	<i>Gomphus quadricolor</i>
A mayfly	<i>Habrophlebiodes celeteria</i>
Georgia Isonychia mayfly	<i>Isonychia georgiae</i>
Brook snaketail	<i>Ophiogomphus aspersus</i>
Bent forestfly	<i>Ostrocerca prolongata</i>
A mayfly	<i>Paraleptophlebia assimilis</i>

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Common Name	Scientific Name
A mayfly	<i>Rhithrogena anomala</i>
Appalachian rhyacophilid caddisfly	<i>Rhyacophila appalachia</i>
A philopotamid caddisfly	<i>Wormaldia thyria</i>

**Other Aquatic Invertebrates**

A cave planarian	<i>Geocentrophora cavernicola</i>
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**Terrestrial Insects**

A cave springtail	<i>Arrhopalites clarus</i>
A cave springtail	<i>Arrhopalites marshalli</i>
Southeastern myotis bat fly	<i>Basilia boardmani</i>
Sweet underwing	<i>Catocala dulciola</i>
Hebard's noctuid moth	<i>Erythroecia hebari</i>
Puckett's cave dipluran	<i>Litocampa pucketti</i>
Black lordithon rove beetle	<i>Lordithon niger</i>
Doll's Merolonch moth	<i>Merolonche dolli</i>
Delicate cave beetle	<i>Pseudanophthalmus delicatus</i>
Chestnut leaf-mining moth	<i>Tischeria perplexa</i>

**Other Terrestrial Invertebrates**

Robust trapdoor spider	<i>Antrodiaetus robustus</i>
A cave spider	<i>Bathyphantes weyeri</i>
A millipede	<i>Brachoria separanda calcaria</i>
A millipede	<i>Brachoria separanda hamata</i>
A millipede	<i>Brachoria separanda versicolor</i>
A cave pseudoscorpion	<i>Chitrella cavicola</i>
Clingman covert	<i>Fumonelix wheatleyi</i>
Bluegrass snaggletooth	<i>Gastrocopta clappi</i>
Appalachia bellytooth	<i>Gastrodonta fonticula</i>
Depressed glyph	<i>Glyphyalinia virginica</i>
Gertsch's lampshade-web spider	<i>Hypochilus gertschi</i>
Shenandoah pseudoscorpion	<i>Kleptochthonius polychaetus</i>
Tiny Liptoath	<i>Lobosculum pustuloides</i>
Flat button	<i>Mesomphix subplanus</i>
Cumberland liptoath	<i>Millerelix plicata</i>
A cave centipede	<i>Nampabius turbator</i>
Variable mantleslug	<i>Pallifera varia</i>
Natural Bridge supercoil	<i>Paravitrea pontis</i>
Virginia mantleslug	<i>Philomycus virginicus</i>
A cave mite	<i>Poecilophysis extraneostella</i>
A cave mite	<i>Poecilophysis weyerensis</i>
A cave mite	<i>Rhagidia varia</i>
Carinate slitmouth	<i>Stenotrema spinosum</i>
Grand Caverns blind cave millipede	<i>Trichopetalum weyeriensis</i>
Luray Caverns blind cave millipede	<i>Trichopetalum whitei</i>
Carter threetooth	<i>Triodopsis anteridon</i>
A millipede	<i>Uroblaniulus jerseyi</i>

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Common Name	Scientific Name
Bidentate dome	<i>Ventridens coelaxis</i>
Smallmouth vertigo	<i>Vertigo parvula</i>
<b>Tier IV</b>	
<b>Aquatic Mollusks</b>	
Round peaclam	<i>Pisidium equilaterale</i>
<b>Crustaceans</b>	
Northern spring amphipod	<i>Gammarus pseudolimnaeus</i>
A crayfish	<i>Orconectes cristivarius</i>
A crayfish	<i>Orconectes obscurus</i>
<b>Aquatic Insects</b>	
Canada darner	<i>Aeshna canadensis</i>
Lance-tipped darner	<i>Aeshna constricta</i>
Black-tipped darner	<i>Aeshna tuberculifera</i>
Green-striped darner	<i>Aeshna verticalis</i>
Swannanoa sallfly	<i>Alloperla nanina</i>
Two-striped forceptail	<i>Aphylla williamsoni</i>
Lilypad clubtail	<i>Arigomphus furcifer</i>
Smoky willowfly	<i>Bolotoperla rossi</i>
River jewelwing	<i>Calopteryx aequabilis</i>
Superb jewelwing	<i>Calopteryx amata</i>
Martha's pennant	<i>Celithemis martha</i>
Faded pennant	<i>Celithemis ornata</i>
Delta-spotted spiketail	<i>Cordulegaster diastatops</i>
American emerald	<i>Cordulia shurtleffi</i>
Regal darner	<i>Coryphaeschna ingens</i>
Northern bluet	<i>Enallagma cyathigerum</i>
Burgundy bluet	<i>Enallagma dubium</i>
Marsh bluet	<i>Enallagma ebrium</i>
Hagen's bluet	<i>Enallagma hageni</i>
Pale bluet	<i>Enallagma pallidum</i>
Beaverpond baskettail	<i>Epithea canis</i>
Stripe-winged baskettail	<i>Epithea costalis</i>
Mantled baskettail	<i>Epithea semiaquea</i>
Moustached clubtail	<i>Gomphus adelphus</i>
Beaverpond clubtail	<i>Gomphus borealis</i>
Harpoon clubtail	<i>Gomphus descriptus</i>
Midland clubtail	<i>Gomphus fraternus</i>
Selys' sundragon	<i>Helocordulia selysii</i>
Schwarz' diving beetle	<i>Laccophilus schwarzi</i>
White corporal skimmer	<i>Ladona exusta</i>
Chalk-fronted corporal skimmer	<i>Ladona julia</i>
Northern common spreadwing	<i>Lestes disjunctus</i>
Emerald spreadwing	<i>Lestes dryas</i>
Carolina spreadwing	<i>Lestes vidua</i>

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<b>Common Name</b>	<b>Scientific Name</b>
Frosted whiteface	<i>Leucorrhinia frigida</i>
Hudsonian whiteface	<i>Leucorrhinia hudsonica</i>
Dot-tailed whiteface	<i>Leucorrhinia intacta</i>
Red-waisted whiteface	<i>Leucorrhinia proxima</i>
A water strider	<i>Limnoporus dissortis</i>
Allegheny river cruiser	<i>Macromia alleghaniensis</i>
Pitcher plant midge	<i>Metriocnemus knabi</i>
Elfin skimmer	<i>Nannothemis bella</i>
Sphagnum sprite	<i>Nehalennia gracilis</i>
Southern sprite	<i>Nehalennia integricollis</i>
Sedge sprite	<i>Nehalennia irene</i>
A limnephilid caddisfly	<i>Nemotaulius hostilis</i>
A water scorpion	<i>Nepa apiculata</i>
Cinnamon shadowdragon	<i>Neurocordulia virginiensis</i>
Stygian shadowdragon	<i>Neurocordulia yamaskanensis</i>
Riffle snaketail	<i>Ophiogomphus carolus</i>
Maine snaketail	<i>Ophiogomphus mainensis</i>
Notched forestfly	<i>Ostrocerca complexa</i>
Carolina salmonfly	<i>Pteronarcys scotti</i>
Acuminate water boatman	<i>Ramphocorixa acuminata</i>
Ski-tailed emerald	<i>Somatochlora elongata</i>
Fine-lined emerald	<i>Somatochlora filosa</i>
Williamson's emerald	<i>Somatochlora williamsoni</i>
Riverine clubtail	<i>Stylurus amnicola</i>
Zebra clubtail	<i>Stylurus scudderi</i>
Variegated meadowhawk	<i>Sympetrum corruptum</i>
Jane's meadowhawk	<i>Sympetrum janeae</i>
White-faced meadowhawk	<i>Sympetrum obtrusum</i>
Gray petaltail	<i>Tachopteryx thoreyi</i>
Southeastern roachfly	<i>Tallaperla cornelia</i>
Southern pitcher plant mosquito	<i>Wyeomyia haynei</i>

**Other Aquatic Insects**

A branchiobdelid worm	<i>Ankyrodrilus legacus</i>
A cave obligate worm	<i>Cambarincola fallax</i>

**Terrestrial Insects**

A rove beetle	<i>Atheta annexa</i>
A mirid bug	<i>Bothynotus johnstoni</i>
Northern metalmark	<i>Calephelis borealis</i>
A leaf beetle	<i>Calligrapha pnirsa</i>
Hoary elfin	<i>Callophrys polios</i>
Consort underwing	<i>Catocala consors sorsconi</i>
Marbled underwing	<i>Catocala marmorata</i>
A tiger beetle	<i>Cicindela gratiosa</i>
Combneck assassin bug	<i>Ctenotrachelus shermani</i>
Six-banded longhorn beetle	<i>Dryobius sexnotatus</i>

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<b>Common Name</b>	<b>Scientific Name</b>
Hercules club stink bug	<i>Elasmostethus atricornis</i>
Early hairstreak	<i>Erora laeta</i>
Two-spotted skipper	<i>Euphyes bimacula</i>
Black dash	<i>Euphyes conspicua</i>
Mixed dart moth	<i>Euxoa immixta</i>
A noctuid moth	<i>Hadena ectypa</i>
Rare spring moth	<i>Heliomata infulata</i>
A geometrid moth	<i>Lophosis labeculata</i>
A geometrid moth	<i>Lytrosis permagnaria</i>
A spur-throat grasshopper	<i>Melanoplus pachycercus</i>
Tuscarora emerald	<i>Nemoria tuscarora</i>
Georgia satyr	<i>Neonympha areolata</i>
A noctuid moth	<i>Oxycilla mitographa</i>
Yellow stoneroot borer moth	<i>Papaipema astuta</i>
Dark stoneroot borer moth	<i>Papaipema duplicata</i>
A ground beetle	<i>Phloeoxena signata</i>
An assassin bug	<i>Ploiaria hirticornis</i>
A ground beetle	<i>Rhadine caudata</i>
King's hairstreak	<i>Satyrium kingi</i>
Northern bush katydid	<i>Scudderia septentrionalis</i>
Chestnut clearwing moth	<i>Synanthedon castaneae</i>

**Other Terrestrial Invertebrates**

A millipede	<i>Abacion tessalatum</i>
An amaurobiid spider	<i>Amaurobius borealis</i>
Southeastern wandering spider	<i>Anahita punctulata</i>
A millipede	<i>Apheloria virginienensis</i>
Hungry mother millipede	<i>Brachoria ethotela</i>
A millipede	<i>Brachoria separanda</i>
A two-clawed hunting spider	<i>Castianeira trilineata</i>
A millipede	<i>Chaetaspis albus</i>
A millipede	<i>Cherokia georgiana latassa</i>
A two-clawed hunting spider	<i>Clubiona spiralis</i>
A millipede	<i>Desmonus earlei</i>
A gnaphosid spider	<i>Drassyllus louisianus</i>
A centipede	<i>Escaryus ethopus</i>
A millipede	<i>Euryurus leachi fraternus</i>
Crablike spiny orb weaver	<i>Gasteracantha cancriformis</i>
A gnaphosid spider	<i>Gnaphosa fontinalis</i>
A millipede	<i>Gyalostethus monticolens</i>
Cherrystone drop	<i>Hendersonia occulta</i>
Pocock's lampshade-web spider	<i>Hypochilus pococki</i>
Thorell's lampshade-web spider	<i>Hypochilus thorelli</i>
A wolf spider	<i>Lycosa lenta</i>
Yellow globelet snail	<i>Mesodon clausus</i>
Proud globe	<i>Mesodon elevatus</i>
Wrinkled button	<i>Mesomphix rugeli</i>

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<b>Common Name</b>	<b>Scientific Name</b>
A millipede	<i>Nannaria wilsoni</i>
A millipede	<i>Okeanobates americanus</i>
A millipede	<i>Onomeris underwoodi</i>
A millipede	<i>Orinisobates nigrrior</i>
Pearl supercoil	<i>Paravitrea calcicola</i>
Smooth bladetooth	<i>Patera laevior</i>
A millipede	<i>Petaserpes rosalbus</i>
A millipede	<i>Petaserpes strictus</i>
A nursery-web spider	<i>Pisaurina dubia</i>
A millipede	<i>Pseudotremia valga</i>
A millipede	<i>Rudiloria kleinpeteri</i>
A millipede	<i>Scytonotus virginicus</i>
Atlantic purse-web spider	<i>Sphodros atlanticus</i>
Coyle's purse-web spider	<i>Sphodros coylei</i>
Black purse-web spider	<i>Sphodros niger</i>
Red-legged purse-web spider	<i>Sphodros rufipes</i>
Ribbed striate	<i>Striatura exigua</i>
A millipede	<i>Thalasssobates littoralis</i>
A millipede	<i>Trichomeris sinuata</i>
A millipede	<i>Trichopetalum lunatum</i>
Packard's blind cave millipede	<i>Trichopetalum packardi</i>
Pittsylvania three-tooth	<i>Triodopsis burchi</i>
Baffled three-tooth	<i>Triodopsis fradulenta</i>
Budded three-tooth	<i>Triodopsis tennesseensis</i>
A millipede	<i>Uroblaniulus canadensis</i>
Carolina scorpion	<i>Vaejovis carolinianus</i>
Golden dome	<i>Ventridens arcellus</i>
Hollow dome	<i>Ventridens lasmodon</i>
Yellow dome	<i>Ventridens pilsbryi</i>
Ovate vertigo snail	<i>Vertigo ovata</i>
A millipede	<i>Virgoiulus minutus</i>
Glassy grapeskin	<i>Vitrinizonites latissimus</i>
Emerton's crab spider	<i>Xysticus emertoni</i>