

Vermont's Species of Greatest Conservation Need

1 **Invertebrates** 192 of an estimated 15,000 to 36,000 Vermont invertebrate species.

2 **Odonata** (Dragonflies & Damselflies) (41)

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| 3 Bog/Fen/Swamp/Marshy Pond Odonata Group+ (20) | 27 Lakes/Ponds Odonata Group+ (7) |
| 4 Southern Spreadwing (<i>Lestes disjunctus australis</i>) | 28 New England bluet (<i>Enallagma laterale</i>) |
| 5 Subarctic Bluet (<i>Coenagrion interrogatum</i>) | 29 Vernal Bluet (<i>Enallagma vernale</i>) |
| 6 Citrine Forktail (<i>Ischnura hastata</i>) | 30 Slender Bluet (<i>Enallagma traviatum</i>) |
| 7 Comet darner (<i>Anax longipes</i>) | 31 Lilypad Forktail (<i>Ischnura kellicotti</i>) |
| 8 Mottled Darner (<i>Aeshna clepsydra</i>) | 32 Ringed Emerald (<i>Somatochlora albicincta</i>) |
| 9 Zigzag Darner (<i>Aeshna sitchensis</i>) | 33 Lake Emerald (<i>Somatochlora cingulata</i>) |
| 10 Subarctic Darner (<i>Aeshna subarctica</i>) | 34 White Corporal (<i>Libellula exusta</i>) |
| 11 Green-striped Darner (<i>Aeshna verticalis</i>) | 35 |
| 12 Spatterdock Darner (<i>Aeshna mutata</i>) | 36 River/Stream Odonata Group+ (14) |
| 13 Swamp Darner (<i>Epiaeschna heros</i>) | 37 American rubspot (<i>Hetaerina americana</i>) |
| 14 Harlequin Darner (<i>Gomphaeschna furcillata</i>) | 38 Blue-fronted dancer (<i>Argia apicalis</i>) |
| 15 Cyrano Darner (<i>Nasiaeschna pentacantha</i>) | 39 Rainbow bluet (<i>Enallagma antennatum</i>) |
| 16 Petite Emerald (<i>Dorocordulia lepida</i>) | 40 Spine-crowned clubtail (<i>Gomphus abbreviatus</i>) |
| 17 Painted skimmer (<i>Libellula semifasciata</i>) | 41 Rapids clubtail (<i>Gomphus quadricolor</i>) |
| 18 Ski-tailed Emerald (<i>Somatochlora elongata</i>) | 42 Skillet clubtail (<i>Gomphus ventricosus</i>) |
| 19 Forcinate Emerald (<i>Somatochlora forcipata</i>) | 43 Cobra clubtail (<i>Gomphus vastus</i>) |
| 20 Delicate Emerald (<i>Somatochlora franklini</i>) | 44 Brook snaketail (<i>Ophiogomphus aspersus</i>) |
| 21 Kennedy's Emerald (<i>Somatochlora kennedyi</i>) | 45 Riffle snaketail (<i>Ophiogomphus carolus</i>) |
| 22 Ebony Boghaunter (<i>Williamsonia fletcheri</i>) | 46 Maine snaketail (<i>Ophiogomphus mainensis</i>) |
| 23 Black Meadowhawk (<i>Sympetrum danae</i>) | 47 Rusty snaketail (<i>Ophiogomphus rupinsulensis</i>) |
| 24 | 48 Stylurus amnicola (Riverine Clubtail) |
| 25 Seep/Rivulet Odonata Group+ (1) | 49 Zebra Clubtail (<i>Stylurus scudderi</i>) |
| 26 Gray petaltail (<i>Tachopteryx thoreyi</i>) | 50 Stygian shadowdragon (<i>Neurocordulia yamaskanensis</i>) |

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+ Note that each Odonata species was assigned to a single community type, even though there is sometimes overlap suggested by the description of habitat

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Lepidoptera (Butterflies & Moths) (33)

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| 56 Wetland Butterflies Group(7) | 77 Moths Group(17) |
| 57 Bog copper (<i>Lycaena epixanthe</i>) | 78 A Ghost Moth (<i>Sthenopsis thule</i>) |
| 58 Jutta arctic (<i>Oeneis jutta</i>) | 79 Currant Spanworm (<i>Itame ribearia</i>) |
| 59 Dion skipper (<i>Euphyes dion</i>) | 80 Imperial Moth (<i>Eacles imperialis pini</i>) |
| 60 Black dash (<i>Euphyes conspicua</i>) | 81 New England Buckmoth (<i>Hemileuca lucina</i>) |
| 61 Two-spotted skipper (<i>Euphys bimacula</i>) | 82 Hermit Sphinx (<i>Sphinx eremitus</i>) |
| 62 Mulberry wing (<i>Poanes massasoit</i>) | 83 Plum Sphinx (<i>Sphinx drupiferarum</i>) |
| 63 Broad-winged skipper (<i>Poanes viator</i>) | 84 Clemens' Sphinx (<i>Sphinx luscitiosa</i>) |
| 64 | 85 A Noctuid Moth (<i>Xestia (Anomogyna) fabulosa</i>) |
| 65 Grassland Butterflies Group (4) | 86 A Noctuid Moth (<i>Lasionycta taigata</i>) |
| 66 Cobweb skipper (<i>Hesperia metea</i>) | 87 A Noctuid Moth (<i>Lemmeria digitalis</i>) |
| 67 Persius duskywing (<i>Erynnis persius</i>) | 88 Franclemont's Lithophane (<i>Lithophane franclemonti</i>) |
| 68 Regal fritillary (<i>Speyeria idalia</i>) | 89 An Autumnal Noctuid Moth (<i>Pachypolia atricornis</i>) |
| 69 Dusted Skipper (<i>Atrytonopsis hianna</i>) | 90 Ostrich Fern Borer Moth (<i>Papaipema</i> sp. 2) |
| 70 | 91 A Noctuid Moth (<i>Properigea</i> sp. 1 (<i>P. costa</i>)) |
| 71 Hardwood Forest Butterflies Group (5) | 92 A Noctuid Moth (<i>Xestia homogena</i>) |
| 72 West Virginia white (<i>Pieris virginiensis</i>) | 93 Pine Barrens Zanclognatha (<i>Zanclognatha martha</i>) |
| 73 Early hairstreak (<i>Erora laeta</i>) | 94 A Noctuid Moth (<i>Zale submediana</i>) |
| 74 Hackberry emporer (<i>Asterocampa celtis</i>) | 95 |
| 75 Tawny emporer (<i>Asterocampa clyton</i>) | |
| 76 Edwards' hairstreak (<i>Satyrium edwardsii</i>) | |

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Mayflies/Stoneflies/Caddisflies Group (8)

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| 98 A Mayfly (<i>Ameletus browni</i>) | 102 A Mayfly (<i>Eurylophella bicoloroides</i>) |
| 99 A Mayfly (<i>Ameletus tertius</i>) | 103 A Mayfly (<i>Baetisca rubescens</i>) |
| 100 Tomah Mayfly (<i>Siphonisca aerodromia</i>) | 104 A Stonefly (<i>Alloperla voinae</i>) |
| 101 Roaring Brook Mayfly (<i>Epeorus frisoni</i>) | 105 A Caddisfly (<i>Rhyacophila brunnea</i>) |

Vermont's Species of Greatest Conservation Need

1 Invertebrates, continued

2 Tiger Beetles Group (6)

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| 3 A Tiger Beetle (<i>Cicindela ancocisconensis</i>) | 6 Puritan Tiger Beetle (<i>Cicindela puritana</i>) |
| 4 Cobblestone Tiger Beetle (<i>Cicindela marginipennis</i>) | 7 Beach-dune tiger beetle (<i>Cicindela hirticollis</i>) |
| 5 A Tiger Beetle (<i>Cicindela patruela</i>) | 8 Long-lip Tiger Beetle (<i>Cicindela longilabris</i>) |

10 Ground Beetle Group (*Carabidae*) (73)

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| 11 <i>Sphaeroderus nitidicollis brevoortii</i> | 37 <i>Acupalpus rectangulus</i> | 63 <i>Pericompsus ephippiatus</i> |
| 12 <i>Agonum crenistriatum</i> | 38 <i>Diplocheila impressicollis</i> | 64 <i>Platynus cincticollis</i> |
| 13 <i>Agonum darlingtoni</i> | 39 <i>Diplocheila striatopunctata</i> | 65 <i>Platynus parmiginatus</i> |
| 14 <i>Agonum decorum</i> | 40 <i>Diplocheila assimilis</i> | 66 <i>Platypatrobus lacustris</i> |
| 15 <i>Agonum moerens</i> | 41 <i>Pseudamara arenaria</i> | 67 <i>Schizogenius ferrugineus</i> |
| 16 <i>Agonum picicornoides</i> | 42 <i>Dyschirius brevispinus</i> | 68 <i>Sericoda obsoleta</i> |
| 17 <i>Agonum punctiforme</i> | 43 <i>Dyschirius erythrocerus</i> | 69 <i>Sericoda quadripunctata</i> |
| 18 <i>Agonum superioris</i> | 44 <i>Dyschirius politus</i> | 70 <i>Tetragonoderus fasciatus</i> |
| 19 <i>Scaphinotus bilobus</i> | 45 <i>Elaphropus dolosus</i> | 71 <i>Trichocellus cognatus</i> |
| 20 <i>Pterostichus brevicornis</i> | 46 <i>Elaphropus levipes</i> | 72 <i>Atronus pubescens</i> |
| 21 <i>Pterostichus castor</i> | 47 <i>Elaphrus fuliginosus</i> | 73 <i>Amara laevipennis</i> |
| 22 <i>Pterostichus lachrymosus</i> | 48 <i>Geopinus incrassatus</i> | 74 <i>Amara erratica</i> |
| 23 <i>Pterostichus pinguedineus</i> | 49 <i>Harpalus fulvilabris</i> | 75 <i>Anchomenus picticornis</i> |
| 24 <i>Pterostichus punctatissimus</i> | 50 <i>Harpalus indigens</i> | 76 <i>Apristus latens</i> |
| 25 <i>Nebria suturalis</i> | 51 <i>Harpalus providens</i> | 77 <i>Blethisa quadricollis</i> |
| 26 <i>Notiophilus nemoralis</i> | 52 <i>Lophoglossus scrutator</i> | 78 <i>Blethisa julii</i> |
| 27 <i>Bembidion rufotinctum</i> | 53 <i>Miscodera arctica</i> | 79 <i>Blethisa multipunctata</i> |
| 28 <i>Bembidion cordatum</i> | 54 <i>Notiobia sayi</i> | 80 <i>Carabus goryi</i> |
| 29 <i>Bembidion grapei</i> | 55 <i>Notiophilus aquaticus</i> | 81 <i>Carabus maeander</i> |
| 30 <i>Bembidion muscicola</i> | 56 <i>Notiophilus borealis</i> | 82 <i>Dicaelus dilatatus</i> |
| 31 <i>Bembidion mutatum</i> | 57 <i>Notiophilus novemstriatus</i> | 83 <i>Dicaelus teter</i> |
| 32 <i>Bembidion quadratum</i> | 58 <i>Olisthopus micans</i> | |
| 33 <i>Bembidion robusticollis</i> | 59 <i>Parastachys oblitus</i> | |
| 34 <i>Bembidion rolandi</i> | 60 <i>Parastachys rhodeanus</i> | |
| 35 <i>Bembidion affine</i> | 61 <i>Patrobus foveocollis</i> | |
| 36 <i>Acupalpus alternans</i> | 62 <i>Pentagonica picticornis</i> | |

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85 Mollusca (27)

86 Freshwater Mussels Group (13)

- 87 Eastern pearlshell (*Margaritifera margaritifera*)
- 88 Dwarf wedgemussel (*Alasmidonta heterodon*)
- 89 Elktoe (*Alasmidonta marginata*)
- 90 Brook floater (*Alasmidonta varicosa*)
- 91 Pocketbook (*Lampsilis ovata*)
- 92 Fluted-shell (*Lasmigona costata*)
- 93 Creek heelsplitter (*Lasmigona compressa*)
- 94 Pink heelsplitter (*Potamilus alatus*)
- 95 Fragile papershell (*Leptodea fragilis*)
- 96 Black sandshell (*Ligumia recta*)
- 97 Giant floater (*Pyganodon grandis*)
- 98 Cylindrical papershell (*Anodontoidea ferussacianus*)
- 99 Alewife floater (*Anodonta implicata*)

100 Snails Group (14)

- 101 Fingered valvata (*Valvata lewisi*)
- 102 Mossy valvata (*Valvata sincera*)
- 103 Squat dusksnail (*Amnicola (Lyogyrus) grana*)
- 104 Canadian dusksnail (*Amnicola (Lyogyrus) walkeri*)
- 105 Buffalo pebblesnail (*Gillia altilis*)
- 106 Pupa dusksnail (*Lyogyrus (Amnicola) pupoidea*)
- 107 Boreal marstonia (*Marstonia (Pyrgulopsis) decepta*)
- 108 Liver elimia (*Goniobasis livescens*)
- 109 Sharp hornsnailed (*Pleurocera acuta*)
- 110 Spindle lymnaea (*Acella haldemani*)
- 111 Mammoth lymnaea (*Bulimnea megastoma*)
- 112 Country fossaria (*Fossaria rustica*)
- 113 Disco gyro (*Gyraulus circumstriatus*)
- 114 Star gyro (*Gyraulus crista*)

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116 Crustaceans Group (3)

- 117 An Amphipod (*Diporeia hoyi*)
- 118 Taconic Cave Amphipod (*Stygobromus borealis*)
- 119 Appalachian brook crayfish (*Camburus bartonii*)

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121 Ant Group (1)

- 122 A Slave-making Ant *Leptothorax* sp. 1 (*L. pillagens*)