

Species of Greatest Conservation Need (SGCN) Habitat Associations

Macrogroup: Northern Hardwood & Conifer

Habitat Systems within Macrogroup:

- Appalachian (Hemlock)-Northern Hardwood Forest
- Laurentian-Acadian Northern Hardwoods Forest
- Laurentian-Acadian Pine-Hemlock-Hardwood Forest
- Laurentian-Acadian Red Oak-Northern Hardwood Forest
- Northeastern Coastal and Interior Pine-Oak Forest
- Northern Hardwood & Conifer Macrogroup - Unknown Habitat System (i.e. Macrogroup)

Description: Wooded uplands of the north-temperate northeast, characterized by northern hardwoods, pines, hemlock, or red spruce

SGCN Associated With This Habitat		Total SGCN:	1:	12	2:	41	3:	99
Class	Amphibians <i>Amphibia</i>	SGCN Category						
Species	Blue-spotted Salamander <i>Ambystoma laterale</i>	2						
Species	Northern Spring Salamander <i>Gyrinophilus porphyriticus porphyriticus</i>	2						
Class	Birds <i>Aves</i>	SGCN Category						
Species	American Redstart <i>Setophaga ruticilla</i>	2						
Species	American Woodcock <i>Scolopax minor</i>	3						
Species	Baltimore Oriole <i>Icterus galbula</i>	3						
Species	Black-and-white Warbler <i>Mniotilta varia</i>	2						
Species	Black-backed Woodpecker <i>Picoides arcticus</i>	3						
Species	Black-billed Cuckoo <i>Coccyzus erythrophthalmus</i>	3						
Species	Blackburnian Warbler <i>Setophaga fusca</i>	3						
Species	Black-throated Blue Warbler <i>Setophaga caerulescens</i>	3						
Species	Black-throated Green Warbler <i>Setophaga virens</i>	3						
Species	Broad-winged Hawk <i>Buteo platypterus</i>	3						
Species	Canada Warbler <i>Cardellina canadensis</i>	2						
Species	Chimney Swift <i>Chaetura pelagica</i>	2						
Species	Eastern Kingbird <i>Tyrannus tyrannus</i>	2						
Species	Eastern Screech-owl <i>Megascops asio</i>	3						
Species	Eastern Wood-pewee <i>Contopus virens</i>	2						
Species	Evening Grosbeak <i>Coccothraustes vespertinus</i>	2						
Species	Field Sparrow <i>Spizella pusilla</i>	3						
Species	Fox Sparrow <i>Passerella iliaca</i>	3						
Species	Gray Jay <i>Perisoreus canadensis</i>	3						
Species	Great Blue Heron <i>Ardea herodias</i>	2						
Species	Least Flycatcher <i>Empidonax minimus</i>	3						
Species	Long-eared Owl <i>Asio otus</i>	3						
Species	Louisiana Waterthrush <i>Parkesia motacilla</i>	3						
Species	Mourning Warbler <i>Geothlypis philadelphia</i>	3						
Species	Northern Flicker <i>Colaptes auratus</i>	3						
Species	Northern Parula <i>Setophaga americana</i>	3						
Species	Pine Grosbeak <i>Pinicola enucleator</i>	3						
Species	Prairie Warbler <i>Setophaga discolor</i>	2						
Species	Purple Finch <i>Haemorhous purpureus</i>	3						

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Species	Red Crossbill <i>Loxia curvirostra</i>	3
Species	Rose-breasted Grosbeak <i>Pheucticus ludovicianus</i>	3
Species	Ruby-crowned Kinglet <i>Regulus calendula</i>	2
Species	Scarlet Tanager <i>Piranga olivacea</i>	3
Species	Snowy Egret <i>Egretta thula</i>	3
Species	Spruce Grouse <i>Falcapennis canadensis</i>	3
Species	Swainson's Thrush <i>Catharus ustulatus</i>	3
Species	Tennessee Warbler <i>Oreothlypis peregrina</i>	2
Species	Veery <i>Catharus fuscescens</i>	2
Species	White-throated Sparrow <i>Zonotrichia albicollis</i>	3
Species	White-winged Crossbill <i>Loxia leucoptera</i>	3
Species	Wood Thrush <i>Hylocichla mustelina</i>	1
Species	Yellow Warbler <i>Setophaga petechia</i>	3
Class	Aquatic And Terrestrial Snails <i>Gastropoda</i>	SGCN Category
Species	Big-tooth Whitelip <i>Neohelix dentifera</i>	3
Species	Spike-lip Crater <i>Appalachina sayana</i>	3
Class	Insects <i>Insecta</i>	SGCN Category
Species	A Caddisfly <i>Hydroptila blicklei</i>	3
Species	A Caddisfly <i>Hydroptila parachelops</i>	3
Species	A Caddisfly <i>Hydroptila tomah</i>	3
Species	A Caddisfly <i>Ochrotrichia denningi</i>	3
Species	A Mayfly <i>Ameletus browni</i>	3
Species	A Mayfly <i>Baetisca berneri</i>	3
Species	A Mayfly <i>Baetisca carolina</i>	3
Species	A Mayfly <i>Baetisca lacustris</i>	3
Species	A Mayfly <i>Baetisca rubescens</i>	3
Species	A Mayfly <i>Hexagenia rigida</i>	3
Species	A Mayfly <i>Metretopus borealis</i>	3
Species	A Mayfly <i>Nixe horrida</i>	3
Species	A Mayfly <i>Parameletus midas</i>	3
Species	A Mayfly <i>Rhithrogena undulata</i>	3
Species	A Mayfly <i>Siphonurus barbaroides</i>	3
Species	A Mayfly <i>Siphonurus barbarus</i>	2
Species	A Mayfly <i>Siphonurus demaryi</i>	2
Species	A Moth <i>Cucullia speyeri</i>	3
Species	A Noctuid Moth <i>Chaetagnaea cerata</i>	2
Species	A Stonefly <i>Alloperla voinae</i>	3
Species	A Stonefly <i>Neoperla mainensis</i>	3
Species	Acadian Swordgrass Moth <i>Xylena thoracica</i>	3
Species	American Bumble Bee <i>Bombus pensylvanicus</i>	2
Species	Appalachian Brown <i>Satyrodes appalachia</i>	3
Species	Arrow Clubtail <i>Stylurus spiniceps</i>	3
Species	Arrowhead Spiketail <i>Cordulegaster obliqua</i>	3
Species	Ashton's Cuckoo Bumble Bee <i>Bombus ashtoni</i>	2

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Species	Barrens Chaetagnae <i>Chaetagnae tremula</i>	3
Species	Barrens Metarranthis Moth <i>Metarranthis apiciaria</i>	2
Species	Big Bluet <i>Enallagma durum</i>	3
Species	Black Saddlebags <i>Tramea lacerata</i>	3
Species	Bog Elfin <i>Callophrys lanoraieensis</i>	3
Species	Bold-based Zale Moth <i>Zale lunifera</i>	3
Species	Boreal Snaketail <i>Ophiogomphus colubrinus</i>	1
Species	Broad Sallow <i>Xylotype capax</i>	3
Species	Broad-tailed Shadowdragon <i>Neurocordulia michaeli</i>	3
Species	Brown-belted Bumble Bee <i>Bombus griseocollis</i>	3
Species	Canada Whiteface <i>Leucorrhinia patricia</i>	2
Species	Carolina Saddlebags <i>Tramea carolina</i>	3
Species	Citrine Forktail <i>Ischnura hastata</i>	3
Species	Cobra Clubtail <i>Gomphus vastus</i>	3
Species	Comet Darner <i>Anax longipes</i>	3
Species	Common Sanddragon <i>Progomphus obscurus</i>	3
Species	Dusky Dancer <i>Argia translata</i>	3
Species	Early Hairstreak <i>Erora laeta</i>	2
Species	Eastern Buckmoth <i>Hemileuca maia maia</i>	2
Species	Edwards' Hairstreak <i>Satyrium edwardsii</i>	2
Species	Elfin Skimmer <i>Nannothemis bella</i>	3
Species	Extra-striped Snaketail <i>Ophiogomphus anomalus</i>	3
Species	Fernald's Cuckoo Bumble Bee <i>Bombus fernaldae</i>	3
Species	Graceful Clearwing <i>Hemaris gracilis</i>	3
Species	Huckleberry Sphinx <i>Paonias astylus</i>	3
Species	Incurvate Emerald <i>Somatochlora incurvata</i>	3
Species	Indiscriminate Cuckoo Bumble Bee <i>Bombus insularis</i>	2
Species	Lemon Cuckoo Bumble Bee <i>Bombus citrinus</i>	3
Species	Leonard's Skipper <i>Hesperia leonardus</i>	3
Species	Lilypad Clubtail <i>Arigomphus furcifer</i>	3
Species	Martha's Pennant <i>Celithemis martha</i>	3
Species	Needhams Skimmer <i>Libellula needhami</i>	3
Species	New England Bluet <i>Enallagma laterale</i>	2
Species	Ocellated Emerald <i>Somatochlora minor</i>	3
Species	Painted Skimmer <i>Libellula semifasciata</i>	3
Species	Pink Sallow <i>Psectraglaea carnosa</i>	2
Species	Pygmy Snaketail <i>Ophiogomphus howei</i>	2
Species	Quebec Emerald <i>Somatochlora brevicincta</i>	2
Species	Rambur's Forktail <i>Ischnura ramburii</i>	3
Species	Rapids Clubtail <i>Gomphus quadricolor</i>	2
Species	Red-winged Sallow <i>Xystocheilus rufago</i>	3
Species	Ringed Boghaunter <i>Williamsonia lintneri</i>	1
Species	Ringed Emerald <i>Somatochlora albicincta</i>	3
Species	Roaring Brook Mayfly <i>Epeorus frisoni</i>	1
Species	Rusty-patched Bumble Bee <i>Bombus affinis</i>	1
Species	Sanderson's Bumble Bee <i>Bombus sandersoni</i>	3

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Species	Satyr Comma <i>Polygonia satyrus</i>	3
Species	Scarlet Bluet <i>Enallagma pictum</i>	2
Species	Seaside Dragonlet <i>Erythrodiplex berenice</i>	3
Species	Sedge Darner <i>Aeshna juncea</i>	2
Species	Short-tailed Swallowtail <i>Papilio brevicauda gaspeensis</i>	3
Species	Similar Underwing <i>Catocala similis</i>	3
Species	Sleepy Duskywing <i>Erynnis brizo</i>	2
Species	Southern Cloudywing <i>Thorybes bathyllus</i>	3
Species	Southern Pygmy Clubtail <i>Lanthus vernalis</i>	2
Species	Spatterdock Darner <i>Rhionaeschna mutata</i>	3
Species	Spicebush Swallowtail <i>Papilio troilus</i>	3
Species	Spiny Salmonfly <i>Pteronarcys comstocki</i>	3
Species	Swamp Darner <i>Epiaeschna heros</i>	3
Species	Tomah Mayfly <i>Siphonisca aerodromia</i>	1
Species	Tule Bluet <i>Enallagma carunculatum</i>	3
Species	Twilight Moth <i>Lycia rachelae</i>	2
Species	Yellow Bumble Bee <i>Bombus fervidus</i>	3
Species	Yellowbanded Bumble Bee <i>Bombus terricola</i>	3
Species	Zigzag Darner <i>Aeshna sitchensis</i>	3

Class	Mammals <i>Mammalia</i>	SGCN Category
Species	Canada Lynx <i>Lynx canadensis</i>	2
Species	Eastern Red Bat <i>Lasiurus borealis</i>	3
Species	Eastern Small-footed Myotis <i>Myotis leibii</i>	1
Species	Hoary Bat <i>Lasiurus cinereus</i>	3
Species	Little Brown Bat <i>Myotis lucifugus</i>	1
Species	Northern Long-eared Myotis <i>Myotis septentrionalis</i>	1
Species	Silver-haired Bat <i>Lasionycteris noctivagans</i>	2
Species	Tri-colored Bat <i>Perimyotis subflavus</i>	2

Class	Reptiles <i>Reptilia</i>	SGCN Category
Species	Blanding's Turtle <i>Emydoidea blandingii</i>	1
Species	Eastern Box Turtle <i>Terrapene carolina carolina</i>	2
Species	Eastern Ribbon Snake <i>Thamnophis sauritus</i>	2
Species	Northern Brownsnake <i>Storeria dekayi dekayi</i>	2
Species	Spotted Turtle <i>Clemmys guttata</i>	1
Species	Wood Turtle <i>Glyptemys insculpta</i>	1

Endangered (E) and Threatened (T) Plant Species Associated With This Habitat

Class	Dicots <i>Dicotyledoneae</i>	State Status
Species	Allegheny Vine <i>Adlumia fungosa</i>	T
Species	American Ginseng <i>Panax quinquefolius</i>	E
Species	Bitternut Hickory <i>Carya cordiformis</i>	E
Species	Boreal Bedstraw <i>Galium kamtschaticum</i>	T
Species	Cut-leaved Toothwort <i>Cardamine concatenata</i>	E
Species	Flowering Dogwood <i>Cornus florida</i>	E

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Species	Hairy Bush-clover <i>Lespedeza hirta ssp. hirta</i>	E
Species	Mountain Honeysuckle <i>Lonicera dioica</i>	E
Species	New Jersey Tea <i>Ceanothus americanus</i>	T
Species	Northern Wild Comfrey <i>Cynoglossum virginianum var. boreale</i>	E
Species	Scarlet Oak <i>Quercus coccinea</i>	E
Species	Spotted Wintergreen <i>Chimaphila maculata</i>	E
Species	Squirrel-corn <i>Dicentra canadensis</i>	T
Species	Tall White Violet <i>Viola canadensis</i>	E
Species	Wild Coffee <i>Triosteum aurantiacum</i>	E
Species	Wild Ginger <i>Asarum canadense</i>	T
Species	Wild Indigo <i>Baptisia tinctoria</i>	E

Class	Monocots <i>Monocotyledoneae</i>	State Status
Species	Autumn Coral-root <i>Corallorhiza odontorhiza</i>	E
Species	Bur-reed Sedge <i>Carex sparganioides</i>	E
Species	Nodding Pogonia <i>Triphora trianthophora</i>	T
Species	Ram's-head Lady's-slipper <i>Cypripedium arietinum</i>	E
Species	Showy Orchis <i>Galearis spectabilis</i>	E
Species	Small Whorled Pogonia <i>Isotria medeoloides</i>	E
Species	Spreading Sedge <i>Carex laxiculmis</i>	E
Species	Variable Sedge <i>Carex polymorpha</i>	E

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Threats Associated With This Macrogroup

IUCN Level 2 Threat Name: Housing and Urban Areas

Actionability: Actionable with difficulty	Severity: Severe	
Reversibility: Irreversible	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: Residential development rates highest in suburban areas of southern/coastal ME		

IUCN Level 2 Threat Name: Commercial and Industrial Areas

Actionability: Actionable with difficulty	Severity: Severe	
Reversibility: Irreversible	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME		

IUCN Level 2 Threat Name: Annual and Perennial Non-timber crops

Actionability: Actionable with difficulty	Severity: Moderate Severity	
Reversibility: Reversible with difficulty	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Dispersed or Patchy	Certainty: Moderate Certainty	
Notes: Clearing for cropland		

IUCN Level 2 Threat Name: Livestock Farming and Ranching

Actionability: Actionable with difficulty	Severity: Moderate Severity	
Reversibility: Reversible	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: Clearing for pastureland		

IUCN Level 2 Threat Name: Mining and Quarring

Actionability: Actionable with difficulty	Severity: Moderate Severity	
Reversibility: Reversible with difficulty	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: Moderate Certainty	
Notes: Very small, localize rock mines and gravel pits.		

IUCN Level 2 Threat Name: Renewable Energy

Actionability: Moderately actionable	Severity: Moderate Severity	
Reversibility: Reversible with difficulty	Immediacy: Long-term	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: wind farm development		

IUCN Level 2 Threat Name: Roads and Railroads

Actionability: Actionable with difficulty	Severity: Severe	
Reversibility: Irreversible	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: Fragmentation from roads is highest in southern and coastal ME		

IUCN Level 2 Threat Name: Utility and Service Lines

Actionability: Moderately actionable	Severity: Moderate Severity	
Reversibility: Irreversible	Immediacy: Immediate	Likelihood: Occurring
Spatial Extent: Localized	Certainty: High Certainty	
Notes: Powerlines, pipelines etc; some may provide early successional habitat		

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IUCN Level 2 Threat Name: Logging and Wood Harvesting

Actionability: Highly actionable

Severity: Slight Severity

Reversibility: Reversible

Immediacy: Immediate

Likelihood: Occurring

Spatial Extent: Dispersed or Patchy

Certainty: Moderate Certainty

Notes: Severity varies depending on intensity. May be a stress to species preferring closed canopy or late-successional systems; provides habitat for species using early to mid-successional forests; forest management also maintains working forest as valuable open space for wildlife

IUCN Level 2 Threat Name: Recreational Activities

Actionability: Moderately actionable

Severity: Moderate Severity

Reversibility: Reversible

Immediacy: Immediate

Likelihood: Occurring

Spatial Extent: Localized

Certainty: High Certainty

Notes: Off trail use

IUCN Level 2 Threat Name: Invasive Non-native/Alien Species/Diseases

Actionability: Actionable with difficulty

Severity: Slight Severity

Reversibility: Reversible with difficulty

Immediacy: Immediate

Likelihood: Occurring

Spatial Extent: Localized

Certainty: Moderate Certainty

Notes: Deer overpopulation in Southern Maine

IUCN Level 2 Threat Name: Invasive Non-native/Alien Species/Diseases

Actionability: Actionable with difficulty

Severity: Moderate Severity

Reversibility: Reversible with difficulty

Immediacy: Immediate

Likelihood: Occurring

Spatial Extent: Dispersed or Patchy

Certainty: High Certainty

Notes: Invasive plants & insects (gypsy moth, EAB, Asian Longhorn beetle, etc.); invasive plants generally worse in southern ME; spraying Bt may be problematic for invertebrates in spruce-fir forests

IUCN Level 2 Threat Name: Air-Bourne Pollutants

Actionability: Actionable with difficulty

Severity: Slight Severity

Reversibility: Reversible with difficulty

Immediacy: Immediate

Likelihood: Occurring

Spatial Extent: Pervasive

Certainty: High Certainty

Notes: Atmospheric nitrogen, among others, but long term impacts are not clear

IUCN Level 2 Threat Name: Habitat Shifting or Alteration

Actionability: Moderately actionable

Severity: Slight Severity

Reversibility: Irreversible

Immediacy: Long-term

Likelihood: Likely

Spatial Extent: Pervasive

Certainty: Moderate Certainty

Notes: Habitat shifting as a result of climate change; forestry adaptation may be possible