

SGCN and Habitat Stressors

Level 1 Threat Energy Production and Mining

Level 2 Threat: Mining and Quarrying

Description: Exploring for, developing, and producing minerals and rocks

Species Associated With This Stressor:

Total SGCN: 1: 8 2: 10 3:

Class		SGCN Category
	<i>Actinopterygii</i> (Ray-finned Fishes)	
	Species: <i>Salmo salar</i> (Atlantic Salmon)	1
	Severity: Severe	Actionability: Actionable with difficulty
	Notes: Mining in streams can impact substrate quality, disrupt Atlantic salmon 0+ and 1+ parr populations. Likelihood is moderate and increasing. Spatial extent is Western Maine.	
	<i>Aves</i> (Birds)	
	Species: <i>Riparia riparia</i> (Bank Swallow)	1
	Severity: Moderate Severity	Actionability: Highly actionable
	Notes: Colony loss in gravel pits during breeding season	
	<i>Gastropoda</i> (Aquatic And Terrestrial Snails)	
	Species: <i>Vertigo paradoxa</i> (Mystery Vertigo)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Development around the few small base-rich outcrops where this snail occurs in dense colonies could extirpate local populations	
	<i>Insecta</i> (Insects)	
	Species: <i>Chaetagnela cerata</i> (A Noctuid Moth)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	
	Species: <i>Speranza exonerata</i> (Barrens Itame)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	
	Species: <i>Metarranthis apiciaria</i> (Barrens Metarranthis Moth)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	
	Species: <i>Hemileuca maia maia</i> (Eastern Buckmoth)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	
	Species: <i>Satyrrium edwardsii</i> (Edwards' Hairstreak)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Barren habitat is often targeted for mining	
	Species: <i>Callophrys hesseli</i> (Hessel's Hairstreak)	1
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: At least one site is proximate to active quarrying	
	Species: <i>Zanclognatha martha</i> (Pine Barrens Zanclognatha)	1
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	
	Species: <i>Citheronia sepulcralis</i> (Pine Devil)	2
	Severity: Moderate Severity	Actionability: Moderately actionable
	Notes: Habitat loss (e.g., sand and gravel extraction)	

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Class	<i>Insecta</i> (Insects)	SGCN Category
Species: <i>Psectraglaea carnosa</i> (Pink Sallow)		2
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Habitat loss (e.g., sand and gravel extraction)		
Species: <i>Bombus affinis</i> (Rusty-patched Bumble Bee)		1
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Habitat loss and fragmentation		
Species: <i>Erynnis brizo</i> (Sleepy Duskywing)		2
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Barren habitat is often targeted for mining		
Species: <i>Lycia rachelae</i> (Twilight Moth)		2
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Habitat loss (e.g., sand and gravel extraction)		

Class	<i>Reptilia</i> (Reptiles)	SGCN Category
Species: <i>Emydoidea blandingii</i> (Blanding's Turtle)		1
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Development and operation of quarries and gravel can contribute to habitat loss, degradation, and fragmentation		
Species: <i>Coluber constrictor constrictor</i> (Northern Black Racer)		1
Severity: Severe	Actionability: Moderately actionable	
Notes: Loss of habitat to quarries and more often gravel/sand extraction are substantial threats		
Species: <i>Clemmys guttata</i> (Spotted Turtle)		1
Severity: Moderate Severity	Actionability: Moderately actionable	
Notes: Development and operation of quarries and gravel can contribute to habitat loss, degradation, and fragmentation		

Habitats Associated With This Stressor:

Macrogroup Boreal Upland Forest

Habitat System Name: Acadian Low Elevation Spruce-Fir-Hardwood Forest

Notes: Mines for minerals, hard rock, metals; some constituent ecological systems are more prone to being developed as gravel pits.

Habitat System Name: Acadian Sub-boreal Spruce Flat

Notes: Mines for minerals, hard rock, metals; some constituent ecological systems are more prone to being developed as gravel pits.

Habitat System Name: Acadian-Appalachian Montane Spr-Fir-Hwd Forest

Notes: Mines for minerals, hard rock, metals; some constituent ecological systems are more prone to being developed as gravel pits.

Habitat System Name: Boreal Jack Pine-Black Spruce Forest

Notes: Mines for minerals, hard rock, metals; some constituent ecological systems are more prone to being developed as gravel pits.

Macrogroup Cliff and Talus

Habitat System Name: Laurentian-Acadian Acidic Cliff and Talus

Notes: Very localized, or may not be occurring

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Macrogroup Cliff and Talus

Habitat System Name: Laurentian-Acadian Calcareous Cliff and Talus

Notes: Very localized, or may not be occurring

Habitat System Name: North-Central Appalachian Acidic Cliff and Talus

Notes: Very localized, or may not be occurring

Habitat System Name: North-Central Appalachian Circumneutral Cliff and Talus

Notes: Very localized, or may not be occurring

Macrogroup Northern Hardwood & Conifer

Habitat System Name: Appalachian (Hemlock)-Northern Hardwood Forest

Notes: Very small, localize rock mines and gravel pits.

Habitat System Name: Laurentian-Acadian Northern Hardwoods Forest

Notes: Very small, localize rock mines and gravel pits.

Habitat System Name: Laurentian-Acadian Pine-Hemlock-Hardwood Forest

Notes: Very small, localize rock mines and gravel pits.

Habitat System Name: Laurentian-Acadian Red Oak-Northern Hardwood Forest

Notes: Very small, localize rock mines and gravel pits.

Habitat System Name: Northeastern Coastal and Interior Pine-Oak Forest

Notes: Very small, localize rock mines and gravel pits.

Macrogroup Northern Peatland & Fens

Habitat System Name: Acadian Maritime Bog

Notes: peat harvesting/burning unlikely to restart in near future, but impacts could be significant

Habitat System Name: Boreal-Laurentian Bog

Notes: peat harvesting/burning unlikely to restart in near future, but impacts could be significant

Habitat System Name: Boreal-Laurentian-Acadian Acidic Basin Fen

Notes: peat harvesting/burning unlikely to restart in near future, but impacts could be significant

Habitat System Name: Laurentian-Acadian Alkaline Fen

Notes: peat harvesting/burning unlikely to restart in near future, but impacts could be significant

Habitat System Name: North-Central Interior and Appalachian Acidic Peatland

Notes: peat harvesting/burning unlikely to restart in near future, but impacts could be significant

Macrogroup Rivers and Streams

Habitat System Name: Ephemeral

Habitat System Name: Headwaters and Creeks

Habitat System Name: Large River

Habitat System Name: Medium River

Habitat System Name: Small River

Habitat System Name: Small River

Macrogroup Subtidal Coarse Gravel Bottom

Habitat System Name: Coarse Gravel

Notes: Sand/gravel extraction for beach nourishment

Habitat System Name: Erect Epifauna

Notes: Sand/gravel extraction for beach nourishment

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Macrogroup Subtidal Coarse Gravel Bottom

Habitat System Name: Kelp Bed

Notes: Sand/gravel extraction for beach nourishment

Macrogroup Subtidal Sand Bottom

Habitat System Name: Submerged Aquatic Vegetation

Notes: Sand/gravel extraction for beach nourishment

Habitat System Name: Unvegetated

Notes: Sand/gravel extraction for beach nourishment

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.