

Siphonurus barbarus (A Mayfly)

Priority 2 Species of Greatest Conservation Need (SGCN)

Class: *Insecta* (Insects)

Order: *Ephemeroptera* (Mayflies)

Family: *Siphonuridae* (Primitive Minnow Mayflies)

General comments:

only two documented EOs in cold, high elevation headwater streams; Burian has looked for it unsuccessfully in suitable habitats

Species Conservation Range Maps for A Mayfly:

Town Map: [Siphonurus barbarus_Towns.pdf](#)

Subwatershed Map: [Siphonurus barbarus_HUC12.pdf](#)

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation: NA

State Special Concern or NMFS Species of Concern:

Siphonurus barbarus is listed as a species of Special Concern in Maine.

Recent Significant Declines: NA

Regional Endemic: NA

High Regional Conservation Priority:

NatureServe:

Global Rank: G2

High Climate Change Vulnerability: NA

Understudied rare taxa:

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. *criteria only qualifies for Priority 3 level SGCN*

Notes:

only two documented EOs in cold, high elevation headwater streams; Burian has looked for it unsuccessfully in suitable habitats

Historical: NA

Culturally Significant: NA

Habitats Assigned to A Mayfly:

Formation Name Boreal Upland Forest

Macrogroup Name Boreal Upland Forest

Habitat System Name: Acadian Low Elevation Spruce-Fir-Hardwood Forest **Notes:** *secondary (riparian only)*

Habitat System Name: Acadian Sub-boreal Spruce Flat **Notes:** *secondary (riparian only)*

Formation Name Freshwater Aquatic

Macrogroup Name Rivers and Streams

Habitat System Name: Headwaters and Creeks ****Primary Habitat**** **Notes:** *cold, high elevation headwater streams*

Habitat System Name: Small River ****Primary Habitat**** **Notes:** *cold, high elevation headwater streams*

Formation Name Northeastern Upland Forest

Macrogroup Name Northern Hardwood & Conifer

Habitat System Name: Laurentian-Acadian Northern Hardwoods Forest **Notes:** *secondary (riparian only)*

Stressors Assigned to A Mayfly:

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Stressor Priority Level based on Severity and Actionability		Moderate Severity	High Severity
	Highly Actionable	Medium-High	High
	Moderately Actionable	Medium	Medium-High
	Actionable with Difficulty	Low	Low

IUCN Level 1 Threat

Other Options

IUCN Level 2 Threat: Lack of knowledge

Severity: Moderate Severity

Actionability: Highly actionable

Notes: Lack of comprehensive survey effort to identify additional occurrences and determine species status

IUCN Level 1 Threat

Biological Resource Use

IUCN Level 2 Threat: Logging and Wood Harvesting

Severity: Moderate Severity

Actionability: Moderately actionable

Notes: In riparian zone where forest canopy is lost or degraded

IUCN Level 1 Threat

Transportation and Service Corridors

IUCN Level 2 Threat: Roads and Railroads

Severity: Moderate Severity

Actionability: Moderately actionable

Notes: In riparian zone where forest canopy is lost or degraded or water quality is impacted; in stream corridor where bridge crossing impacts stream banks, bottom or water quality

Species Level Conservation Actions Assigned to A Mayfly:

None. ***Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.***

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

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.