

Somatochlora brevicincta* (Quebec Emerald)*Priority 2 Species of Greatest Conservation Need (SGCN)****Class:** *Insecta* (Insects)**Order:** *Odonata* (Dragonflies And Damselflies)**Family:** *Corduliidae* (Emeralds)**General comments:**

High vulnerability rank in Conservation Assessment by White et al.; only 9-10 peatlands known

Species Conservation Range Maps for Quebec Emerald:Town Map: [Somatochlora brevicincta_Towns.pdf](#)Subwatershed Map: [Somatochlora brevicincta_HUC12.pdf](#)**SGCN Priority Ranking - Designation Criteria:****Risk of Extirpation:** NA**State Special Concern or NMFS Species of Concern:***Somatochlora brevicincta* is listed as a species of Special Concern in Maine.**Recent Significant Declines:** NA**Regional Endemic:** NA**High Regional Conservation Priority:****Northeast Odonate Conservation Assessment:**

Vulnerability: High, Responsibility: Significant

Notes: Occurs in one or two states only

High Climate Change Vulnerability:

Vulnerability: 3, Confidence: Medium, Reviewers: 1

Understudied rare taxa: NA**Historical:** NA**Culturally Significant:** NA**Habitats Assigned to Quebec Emerald:**

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 Marsh
Macrogroup Name		Wet Meadow-Shrub Marsh
Habitat System Name:		Laurentian-Acadian Wet Meadow-Shrub Swamp Notes: secondary
Formation Name		Northeastern Upland Forest
Macrogroup Name		Northern Hardwood & Conifer
Habitat System Name:		Laurentian-Acadian Northern Hardwoods Forest Notes: secondary (riparian only)
Habitat System Name:		Laurentian-Acadian Pine-Hemlock-Hardwood Forest Notes: secondary (riparian only)
Formation Name		Northeastern Wetland Forest
Macrogroup Name		Northern Swamp
Habitat System Name:		Northern Appalachian-Acadian Conifer-Hardwood Acidic Swamp Notes: secondary

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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:** Intensive forestry in the shoreland zone could affect peatland hydrology and riparian habitat**IUCN Level 1 Threat** **Climate Change and Severe Weather****IUCN Level 2 Threat:** Habitat Shifting or Alteration**Severity:** Moderate Severity**Actionability:** Actionable with difficulty**Notes:** Climate change; mostly boreal specialist of peatland habitats at the southern edge of its range**Species Level Conservation Actions Assigned to Quebec Emerald:**

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

Conservation Actions Associated with the Palustrine Odonates Guild:

Conservation Action **Category:** Research **Biological Priority:** high **Type:** new
 Prepare a statewide atlas and conservation assessment.

Stressor(s) Addressed By This Conservation Action

Lack of knowledge

Broad Taxonomic Group Conservation Actions:

Additional 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

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Family: *Corduliidae* (Emeralds)

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.