

Boloria chariclea grandis (Purple Lesser Fritillary)

Priority 2 Species of Greatest Conservation Need (SGCN)

Class: *Insecta* (Insects)

Order: *Lepidoptera* (Butterflies, Skippers, And Moths)

Family: *Nymphalidae* (Brushfooted Butterflies)

General comments:

Only 1 modern locale; rare boreal habitat; few additional populations expected

Species Conservation Range Maps for Purple Lesser Fritillary:

Town Map: [Boloria chariclea grandis_Towns.pdf](#)

Subwatershed Map: [Boloria chariclea grandis_HUC12.pdf](#)

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation:

Maine Status: Threatened

State Special Concern or NMFS Species of Concern: NA

Recent Significant Declines: NA

Regional Endemic: NA

High Regional Conservation Priority: NA

High Climate Change Vulnerability:

Vulnerability: 3, Confidence: High, Reviewers: Decided in Workshop (W)

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:

Historical: NA

Culturally Significant: NA

Habitats Assigned to Purple Lesser Fritillary:

Formation Name	Boreal Upland Forest
Macrogroup Name	Boreal Upland Forest
Habitat System Name:	Acadian Sub-boreal Spruce Flat **Primary Habitat** Notes: <i>dry upland black spruce woodland where host plant (willows) present</i>

Stressors Assigned to Purple Lesser Fritillary:

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	Biological Resource Use
IUCN Level 2 Threat:	Logging and Wood Harvesting
Severity: Moderate Severity	Actionability: Highly actionable
Notes: Only one modern documented population is located on private industrial forest land; ecologically sensitive forest management is compatible	

Boloria chariclea grandis* (Purple Lesser Fritillary)*Priority 2 Species of Greatest Conservation Need (SGCN)****Class:** *Insecta* (Insects)**Order:** *Lepidoptera* (Butterflies, Skippers, And Moths)**Family:** *Nymphalidae* (Brushfooted Butterflies)**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 monitor status/trends of individual populations**IUCN Level 1 Threat****Pollution****IUCN Level 2 Threat:** Agricultural and Forestry Effluents**Severity:** Moderate Severity**Actionability:** Highly actionable**Notes:** Nontarget species impacts from use of aerial pesticides -- e.g., Spruce Budworm control**IUCN Level 1 Threat****Natural Systems Modifications****IUCN Level 2 Threat:** Fire and Fire Suppression**Severity:** Moderate Severity**Actionability:** Moderately actionable**Notes:** Fire is likely an important natural disturbance force in the boreal woodland heath 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; a boreal species at the extreme southern edge of its range**Species Level Conservation Actions Assigned to Purple Lesser Fritillary:**

**Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

Conservation Action	Category: Species Management	Biological Priority: moderate	Type: new
Develop Forestry Species Management Guidelines for distribution to cooperative landowners and forest management community.			

Stressor(s) Addressed By This Conservation Action

Logging and Wood Harvesting

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

Conservation Action	Category: Species Management	Biological Priority: critical	Type: new
Prepare occurrence maps and pesticide spray consultation guidelines for rare Lepidoptera and distribute to strategic partners including Maine Bureau of Pesticides Control.			

Stressor(s) Addressed By This Conservation Action

Agricultural and Forestry Effluents

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

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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 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.