Alpine Bog

State Rank S1

Community Description

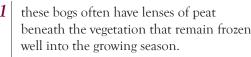
Peat mosses form a carpet on which dwarf bog shrubs and herbs are scattered. The herb layer generally totals 25-40% cover and consists of patches of graminoids such as deerhair sedge and tufted cotton-grass interspersed with patches of dwarf heath shrubs such as bilberries, crowberry, Labrador tea, leatherleaf, rhodora, and sheep laurel (the latter less abundant here than in other dwarf shrub bog vegetation types). A few islands of stunted balsam fir and black spruce may be present. Small cranberry and round - leaved sundew grow on the peat moss. Baked apple-berry is frequent and is restricted in Maine to these alpine bogs and Downeast peatlands.

Soil and Site Characteristics

These wetlands occur in alpine or subalpine settings near or above treeline. Sites are usually level, in small bedrock depressions, or slightly sloping on the edge of basins. The substrate is permanently saturated organic soil. Unlike its lower elevation counterparts,



Cotton-Grass Tussock



Diagnostics

This type occurs near or above treeline on a saturated substrate. Peat mosses exceed cover of other vegetation, with reindeer lichens essentially absent. Shrubs include lower-elevation species as well as the more restricted bilberry and crowberry. Herbs are mostly graminoids.

Similar Types

The montane setting differentiates this from other peatland community types. The Sphagnum substrate differentiates it from other high-elevation types, except for Heath - Lichen Subalpine Slope

Location Map





Bogs, which occur on steeper slopes (>20%), have the dwarf shrub - herb cover exceeding bryoid cover, have more krummholz (spruce, fir, or cedar) and fruticose lichens, and usually lack deerhair sedge and cotton-grass. Both types are floristically similar to certain coastal raised peatlands and Heath - Crowberry Maritime Slope Bogs.

Conservation, Wildlife, and Management Considerations

The few known Maine occurrences of this type occur on public or private conservation land; hiker traffic has caused degradation in heavily used areas. As with all alpine vegetation in Maine, careful trail siting and efforts to minimize off trail use are the important management considerations. In these alpine wetlands, boardwalks or log crossings are helpful.

This high elevation bog community provides potential habitat for the rare northern bog lemming.

Distribution

Montane western Maine, extending westward into New Hampshire and possibly northeasterly to the Gaspé Peninsula.

Landscape Pattern: Small Patch

Characteristic Plants

These plants are frequently found in this community type. Those with an asterisk are often diagnostic of this community.

Dwarf Shrub

Alpine bilberry Baked apple-berry Black crowberry* Labrador tea Leatherleaf* Pale laurel Small cranberry* **Herb** Bog sedge* Deer-hair sedge* Few-flowered sedge* Round-leaved sundew Tufted cotton-grass*

Bryoid

Cetraria lichen* Fen sickle-moss* Sphagnum mosses*

Associated Rare Plants Northern comandra

Associated Rare Animals Northern bog lemming

Examples on Conservation Lands You Can Visit

- Mahoosuc Public Lands Oxford Co.
- Saddleback Mountain, Appalachian Trail – Franklin Co.