## **Deboullie** T15 R9 WELS

## **Vital Statistics**

**Size: 7,253 acres** 

<u>Regulated</u>: 1,086 acres <u>Non-Regulated</u>: 6,167 acres

<u>Upland</u>: 6,213 acres <u>Forested Wetland (NWI)</u>:

108 acres

Non-Forested Wetland: 49 acres

Open Water: 897 acres
Roads: unimproved-4 miles

trails-17 miles

Biophysical Region: St. John

Uplands

BPL Region: North



Rare Species and Exemplary Natural Community Table for Deboullie

•				State
Common Name	Latin Name	S-RANK	G-RANK	Status
Exemplary Natural Communities				
Circumneutral Outcrop		S2	GNR	N/A
Cold-air Talus Slope		S2	G3G5	N/A
Evergreen Seepage Forest		S4	GNR	N/A
Lower Elevation Spruce-Fir Forest		S4	GNR	N/A
Northern Hardwoods Forest		S4	G3G5	N/A
Riverside Seep		S2	G2	N/A
Spruce Rocky Woodland		S4	G3G5	N/A
	Rare Plants			
Alpine Rush	Juncus alpinoarticulatus	S3	G5T5?	SC
Arctic sandwort	Minuartia rubella	S1	G5	T
Few-flowered Spikerush	Eleocharis quinqueflora	S2	G5	SC
Fragrant Cliff Wood-fern	Dryopteris fragrans	S3	G5	SC
Northern Slender Pondweed	Stuckenia filiformis ssp. alpinus	S2	G5T5	SC
Northern Woodsia	Woodsia alpina	S1	G4	T
Smooth Woodsia	Woodsia glabella	S1	G5	T
None found	Rare Animals	· · · · · · · · · · · · · · · · · · ·		

## **Description**

The Deboullie Ecological Reserve is a microcosm of the landscape of northern Aroostook County, with lakes, ponds, low mountains, and stream valleys providing a variety of physical settings. Fire and logging have both played a part in the reserve's history; however, because of steep slopes and lakeshore, much of the reserve has received little cutting in the recent past, with some isolated older stands.

The large ponds include Deboullie, Gardner, and Black Ponds; smaller ponds (Mud Pond, Pushineer, Little Black, etc.) are scattered throughout the reserve. The reserve encompasses the entire shorelines of 11 ponds, with surface waters totaling almost 900 acres. These ponds are well known as sport-fishing areas, as long as one is willing to make the effort to get to them. Blueback trout (a.k.a. the landlocked arctic charr), an unusual variety of trout, occur in several of the lakes. Some pondshores have gradual transitions to upland, such as the Mud Pond basin, with various wetland habitats (e.g. Acidic Sedge Fens and Northern White Cedar Swamps). Other pondshores, where slopes come steeply into the pond basin, have an abrupt transition from aquatic to upland habitats.

The mountains ringing the lakes include areas of spruce slope forests, northern hardwood forests, and exposed talus, reflecting the variety of exposures and slopes. The steep slopes of Deboullie and Black Mountains (and probably Whitman Mountain) support several stands of oldgrowth spruce (some over 200 years old); though uncut, all have been heavily damaged by budworm and subsequent windthrow. The ridges and upper slopes on Black Mountain and Whitman Mountain support mature Beech – Birch – Maple Forests, with trees over 50 cm dbh, fallen trees, and canopy gaps. The Cold-Air Talus Woodlands on Deboullie and Gardner Ponds (which are so sparsely treed that "woodland" is an exaggeration) are particularly noteworthy, with similar communities found in only a few other places in the state.

Away from the ponds and their hills are several broad stream valleys with extensive mature cedar forests along the drainages. The cedar forms a dense canopy over sedges, sphagnum, and boreal herbs.

## Resources

Deboullie Management Unit—Management Plan. 1987. Bureau of Public Lands, Department of Conservation, Augusta, Maine. 47 pp.

Kern, M.J. 1985. Natural Resources Inventory and Critical Area Survey of T15 R9. Bureau of Public Lands, Department of Conservation, Augusta, Maine. 169 pp.