

Bogs

Bogs are peatlands that have deep deposits (>40 cm) of poorly decomposed organic material (referred to as peat). They are elevated above the surrounding terrain and receive water and most nutrients from precipitation. Bogs are the most nutrient-poor wetlands in the eastern boreal forest.



- Due to deep organic deposits, bogs store large amounts of carbon and help to moderate climate change
- * Important habitat for the threatened woodland caribou
- Important water storage/recharge areas on the landscape that release water in dry periods and store water in wet periods

Types of Bogs

- * Treed Bog: Sparsely vegetated and stunted (<10 m) black spruce with sphagnum moss and low-lying shrubs
- * Shrubby Bog: Low-lying shrubs and sphagnum moss
- * Open Bog: sphagnum moss dominated with sparse non-woody vegetation









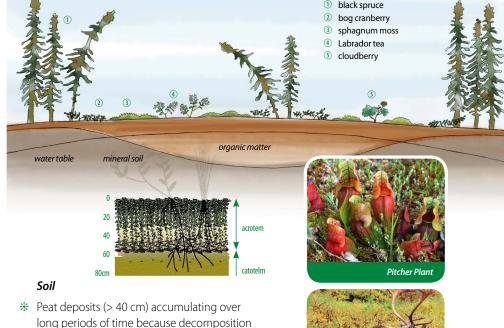
Identifying Characteristics

Vegetation

- * Low plant diversity due to lack of nutrients
- * Tree and ground lichens can be abundant
- * Treed Bog: stunted black spruce (25-60% canopy closure) with sphagnum moss ground cover (>20%)
- * Shrubby Bog: low-lying shrubs (e.g. Labrador tea, bog cranberry >25%) with sphagnum moss (>20%) tree cover <25%
- * Open Bog: sphagnum moss dominated with scattered herbs/forbs, such as cotton grass and sedges; tree and shrub cover <25%

Hydrology

- * Water source: precipitation from snow and rain
- Stagnant, non-flowing systems isolated from surface run-off and groundwater/ nutrients
- * Capillary action of sphagnum moss maintains the water table at or below the ground surface





Resources

deprived) environment

* Two distinct peat layers (above):

is very slow in the wet, cool, anoxic (oxygen

• Acrotem - living top layer (30-50 cm)

• Catotelm - lower, non-living layer

- * Ducks Unlimited Canada in the Boreal Forest borealforest.ca
- * Ducks Unlimited Canada Natural Values Fact Sheet Series ducks.ca/learn-about-wetlands/what-wetland
- * North American Wetlands Conservation Council: WetlandNetwork wetlandnetwork.ca



ducks.ca

Woodland Caribou