

Inventory form for estimating carbon stocks in wetlands

Section 1 – Station description						
Station number: Date and time:						
Name(s) of evaluator(s): Project name:						
Coordinates (lat/long decimal degrees) : () °N, () °W WGS84¹						
Photos (general view of station, view of each vegetation stratum): Disturbances observed?						
Percentage of station covered by the disturbance (if applicable): % Station status: □ Preserved □ Moved Comments:						
Section 2 – Soils						
Soil organic carbon						
Thickness of organic deposit (cm) (include litter in the measurement) Thickness of organic deposit (cm) (include litter in the measurement) Did the probe/auger reach the mineral deposit on contact (e.g. clay, silt, loam, sand or not identifiable (not collected)						
Sub-plot 1						
Sub-plot 2						
Sub-plot 3						
Decomposition of organic matter (if organic deposit thickness ≥ 30 cm)³: ☐ Fibric ☐ Mesic ☐ Humic Photos (decomposition level; organic/mineral contact zone): Comments:						

¹ Spatial reference system common on cartographic applications (e.g. Google Maps).

² If the mineral deposit is not reached on the 1st attempt (obstruction), a 2nd attempt should be made in the same sub-plot and the measurement must be noted on the 2nd line.

³ Record the decomposition level in the intermediate depth zone (50-100 cm) if possible. If the organic deposit is less than 50 cm thick, the decomposition level of the entire deposit should be recorded.

Section 3 – Woody biomass						
Tree stratum ⁴ (height > 4 m)						
Tree stratum cover: □ absent □ 1–25%	□ 25–50%	□ 50–75%	□ 75–100%			
Species (in a 100 m² area)			Diameter at breast height (DBH) (cm) ⁵ (Measured at 1.3 m high)	Diameter at stump height (DSH) (cm) ^{5,6} (Measured at 15 cm high)		

 ⁴ Dead trees should not be included.
 ⁵ The minimum diameter for the measurement of DBH and DSH is 1 cm.
 ⁶ The DSH only needs to be measured for species appearing in the list at the end of the reference section.

Section 3 – Woody biomass (continued)					
Shrub stratum ⁷ (height : 1.3 to 4 m)					
Shrub stratum cover: □ absent □ 1–25% □ 25–50% □ 50–75%	□ 75–100%				
Species (in a 25 m² area)	Diameter at breast height (DBH) (cm) ⁸ (Measured at 1.3 m high)	Diameter at stump height (DSH) (cm) ^{8,9} (Measured at 15 cm high)			

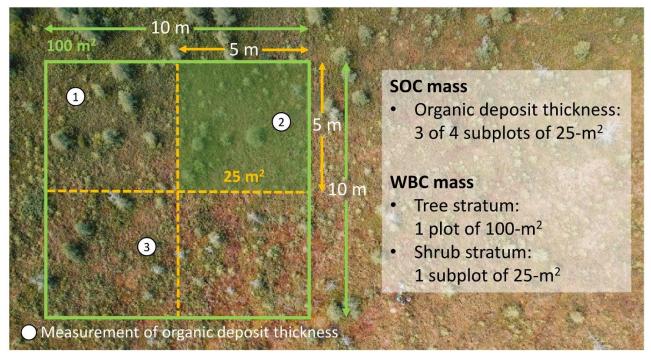
⁷ The shrub stratum includes small trees. Dead trees and shrubs should not be included. ⁸ The minimum diameter for the measurement of DBH and DSH is 1 cm.

⁹ The DSH only needs to be measured for species appearing in the list at the end of the reference section

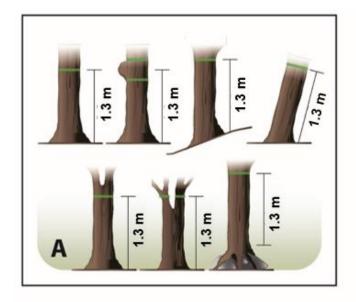
Section 3 – Woody biomass (continued)					
Additional space for recording measurements					
Stratum	Species	Diameter at breast height (DBH) (cm) (Measured at 1.3 m high)	Diameter at stump height (DSH) (cm) (Measured at 15 cm high)		
	Section 4 – Identification of the we	tland type			
Wetland type: □ Freshwater marsh □ Saltwater marsh □ Shrub swamp □ Forested swamp □ Forested peatland □ Open fen □ Open bog					
Level of certainty in wetland identification: ☐ Low ☐ Medium ☐ Good ☐ Excellent					
Wetland type a	ccording to wetland mapping ¹⁰ :				
☐ Marsh ☐ Swamp ☐ Forested peatland ☐ Open fen ☐ Open bog ☐ Non applicable / not mapped					
General notes:					

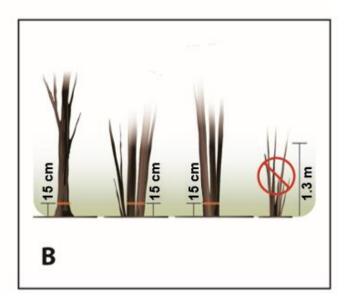
¹⁰ Public mapping, Ducks unlimited wetland inventory, etc.

Reference



Summary diagram of SOC and WBC measurements to be carried out at an inventory station.

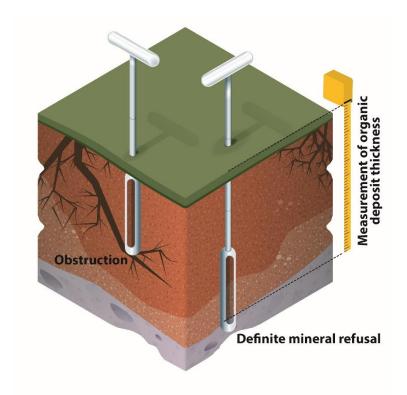




Location of the measurements of A) DBH and B) DSH according to different growth patterns for trees and shrubs. For each DSH measurement, a DBH measurement must also be taken. If multiple stems separate between 15 cm and 1.3 m high, measure the DBH only for the largest stem of the cluster.



Degree of organic matter decomposition: fibric, mesic and humic.



Example of an obstruction when inserting the probe into the organic deposit and a definite mineral refusal when the mineral deposit is reached.

List of species common to southern Québec wetlands for which DSH must be measured

Taxon – common name	Taxon – scientific name
Serviceberry	Amelanchier spp.
Black chokeberry	Aronia melanocarpa
Hawthorn	Crataegus spp.
Dwarf birch	Betula pumila
Chokecherry	Prunus virginiana
Pin cherry	Prunus pensylvanica
Honeysuckle	Lonicera spp.
Dogwood	Cornus spp.
Leatherwood	Dirca palustris
Northern bush honeysuckle	Diervilla lonicera
Common winterberry	llex verticillata
Canadian yew	Taxus canadensis
Sweet gale	Myrica gale
Mountain holly	Nemopanthus mucronatus
Buckthorn	Rhamnus spp.
Beaked hazelnut	Corylus cornuta
Common ninebark	Physocarpus opulifolius
Mountain ash	Sorbus spp.
Spirea	Spiraea spp.
Staghorn sumac	Rhus typhina
Elderberry	Sambucus spp.
Viburnum	Viburnum spp.