

## Wetland W02B Site Capability Raw Data Metadata

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### Rotation

Unique ID	W02B_IC01169
Attribute Definition	Reference describing when data was collected at a broad level (i.e., Rotation 1, Rotation 2).
Value Type	Text
Code	Rotation 1 = 2007 onward   Rotation 2 = 2015 onward

### ABMI Site

Unique ID	W02B_IC01180
Attribute Definition	Reference number given to each ABMI data collection site. An alphabetized suffix distinguishes a new site from the old site(s). Off grid data collection sites are appended with an OGW-ABMI prefix and a 1- or 2-digit suffix.
Value Type	Text
Format	1-4 digits & 1 letter (if necessary); OGW & 4-letter prefix, 1-4 digits, and 1-2 digit suffix

### Year

Unique ID	W02B_IC00002
Attribute Definition	Collection year.
Value Type	Date
Format	YYYY

### Field Date

Unique ID	W02B_IC00015
Attribute Definition	Day, month, and year data was collected.
Value Type	Date
Format	DD-Mon-YY
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

### Field Crew Member(s)

Unique ID	W02B_IC00379
Attribute Definition	Initials for the field technicians collecting the field data.

Value Type	Text
Format	2 or 3 letters (UPPERCASE) and 1 number (if necessary); 1 set of initials or a combination of many
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Wetland Class

Unique ID	W02B_IC01197
Attribute Definition	Differentiation of wetlands based on developmental and environmental characteristics.
Value Type	Code
Code	Organic   Mineral
Missing Values	PNA = Protocol Not Applicable

Zone

Unique ID	W02B_IC01203
Attribute Definition	Zone in which each transect is measured [2015 onward]. There are three transects in the open water zone, three in the emergent zone, three in the graminoid zone, and five in the wooded zone.
Value Type	Code
Code	Open Water   Emergent   Peatland Graminoid   Wetmeadow Graminoid   Wetmeadow Graminoid and Peatland Graminoid = [Historical Zone name was Fen]   Peatland Wooded   Wetmeadow Wooded   Wetmeadow Wooded and Peatland Wooded = [Historical Zone name was Margin]   Upland
Missing Values	PNA = Protocol Not Applicable

Transect

Unique ID	W02B_IC00338
Attribute Definition	Transect identification.
Value Type	Code
Code	Transect 1   Transect 2   Transect 3   Transect 4   Transect 5   Transect 6   Transect 7   Transect 8   Transition Transect
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Transect Location

Unique ID	W02B_IC00345
Attribute Definition	Location of each transect. Transects will either have a numerical value (in multiples of 25 m) that defines the distance along the fixed transect line where the plant transect is located, or a letter/number code that indicates the location for any additional transects that were required. For numerical values, negative values indicate movement along the fixed transect line away from open water whereas positive values are movement along the fixed transect line towards open water. "Start" or 0 is the location of the site start pin. Letter/number codes that are used for additional transects refer to the wetland zone sampled and increase sequentially as you move along the shoreline away from the FTL in the chosen direction, clockwise or counter-clockwise. Transition transects get the three letter code that defines the zone to the outside of the reference zone. In 2015, VNA applies to all Rotation 2 sites with transects not on the FTL (i.e. additional transects).
Value Type	Number
Code	-25 to -150 = -25 to -150 metres along the fixed transect location away from open water   Start or 0 = Location of the site start pin   25 to 300 = 25 to 300 metres along the fixed transect location towards open water   EMG1 to 5 = Emergent Zone Additional Transects 1 to 5   FEN1 to 5 = Fen Zone Additional Transects 1 to 5   OPW1 to 4 = Open Water Additional Transects 1 to 4   UPL1 to 4 = Upland Zone Additional Transects 1 to 4   WMG1 to 5 = Wetland Margin Zone Additional Transects 1 to 5   EMG = For transition transects, indicates the transition is with the emergent zone   FEN = For transition transects, indicates the transition is with the fen zone   OPW = For the transition transects, indicates the transition is with the open water zone   UPL = For transition transects, indicates the transition is with the upland zone   WMG = For transition transects, indicates the transition is with the wetland margin zone
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Water Depth (m)

Unique ID	W02B_IC00367
Attribute Definition	Depth of water (in metres) recorded in all zones [2015 onwards]. Previously measured in the middle of each transect in the emergent and open water zones [2007-2014].
Value Type	Number
Unit	metre
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Ecosite - Nutrient/Moisture Code

Unique ID	W02B_IC00162
Attribute Definition	Nutrient and moisture code for the ecological site classification of a vegetated site based on the dominant vegetation community that is present.
Value Type	Code
Code	<p>1 - PX = Poor/Xeric - Bearberry, Lichen, Bog Cranberry common at some sites.   2 - PM = Poor/Mesic - Labrador Tea, Feather Moss, Bog Cranberry, Bilberry, and Grouse-berry common at some sites.   3 - MX = Medium/Xeric - Hairy Wild Rye, Bearberry, Canada Buffalo-berry, and Feather Moss common at some sites.   4 - MM = Medium/Mesic - Low-bush Cranberry, Canada Buffalo-berry, Blueberry, Alder, Rose, Saskatoon, Labrador Tea, Bearberry, Thimbleberry, Bog Cranberry, and Feather Moss may be common at some sites.   5 - MG = Medium/Hygic - Horsetail, Dogwood, Rose, Willow, and Feather Moss common at some sites.   6 - RG = Rich/Hygic - Dogwood, Fern, Feather Moss, Rose, Alder, Bracted Honeysuckle, Devil's Club, Fir common at some sites.   7 - NT = Not Treed.   8 - PD = Bog - Poor/Hydric - Labrador Tea, Peat Moss, Lichen, Bog Cranberry and Cloudberry may also be present (Soil saturated for part or all of the year. Undecomposed organic soil substrate).   9 - MD = Poor Fen - Medium/Hydric - Labrador Tea, Peat Moss, Sedge, Bog Cranberry, Dwarf Birch and Willow may also be present (Soil saturated for part or all of the year. Undecomposed organic soil substrate).   10 - RD (2005-2014) = Rich Fen - Rich/Hydric - Dwarf Birch, Willow, Sedge, Grass, Moss (soil saturated for part or all of the year; includes floating mats of vegetation).   10 - RDp (2015-later) = Rich Fen - Rich/Hydric - Dwarf Birch, Willow, Sedge, Grass, Moss (Soil saturated for part or all the year; undecomposed organic soil substrate; includes floating mats of vegetation).   10.5 - RDm = Wet Meadow - Rich/Hydric - Dominated by sedge, grass, presence of shrub and trees (e.g. willow). Conductivity &lt;15mS/cm; soil, saturated for part or all of the year. Well decomposed, organic soil substrate.   11 - VD = Marsh - Very Rich/Hydric - Cattail, Rush, Reed. Conductivity &lt;15 mS/cm, sedge and grass may also be present (Water is above the rooting zone for most or all of the year).   12 - SD = Swamp - Trees and shrubs present, poorly developed bryophytes, often with pools of water (Water is above the rooting zone for some of the year, mineral or humified organic soil rather than peaty)   13 - AD = Alkali - Conductivity &gt;15 mS/cm, white salt flats at water's edge, (Water is above the rooting zone for most or all of the year).   14 - OW = Open Water - No trees.</p>
Missing Values	DNC = Did Not Collect   PNA = Protocol Not Applicable   VNA = Variable Not Applicable

Ecosite - Tree Species Modifier

Unique ID	W02B_IC00164
Attribute Definition	At every vegetation sampling location, the tree species modifier is used to classify the site if trees are present and is combined with the moisture/nutrient category to give an ecological site classification.
Value Type	Code
Code	<p>01a Pine = Jack Pine + Douglas Fir &gt;80%   02a Pine = Jack Pine + Lodgepole Pine &gt;50%   02b Other = Aspen + White Spruce + Engelmann Spruce + Subalpine Fir + Western White Pine &gt;50%   02c Sb = Black Spruce &gt;50%   03a None = No Trees   03b Pine = Jack Pine + Lodgepole Pine &gt;50%   03c AwMix = Aspen &gt;20%   03d Spruce = White Spruce + Engelmann Spruce + Subalpine Fir &gt;50%   04a Pine = Jack Pine + Lodgepole Pine + Subalpine Fir &gt;50%   04b PjMix = Aspen + White Birch + White Spruce &gt; 20% AND Jack Pine &gt;=20%   04c Aw = Aspen &gt;50%   04d AwMix = Aspen &gt; 20% AND White Spruce + Black Spruce + Lodgepole Pine &gt;20%   04e Spruce = White Spruce &gt;50%   05a Poplar = Balsam Poplar + Aspen &gt;50%   05b Spruce = White Spruce + Engelmann Spruce &gt;50%   05c Sb = Black Spruce &gt;50%   06a Pine = Lodgepole Pine &gt;50%   06b Poplar = Balsam Poplar + Aspen &gt;50%   06c Spruce = White Spruce + Engelmann Spruce + Subalpine Fir &gt;50%   07a Alpine = Elevation above tree line   07b Flood = Site disturbed frequently by flooding   07c Ice = Site disturbed frequently by ice or snow   07d Dry = Site in prairies/parkland and receives little precipitation   07e Geo = Geological features not suitable for tree growth   07f Human = Site disturbed recently by humans   08a Sb = &gt;=10% tree cover (may only be in shrub/ground strata), Black Spruce &gt;50%   08b Shrub = &lt;10% tree cover   09a SbLt = &gt;=10% tree cover (may only be in shrub/ground strata), Black Spruce + Tamarack &gt;50%   09b Shrub = &lt;10% tree cover   10a SbLt = &gt;=10% tree cover (may only be in shrub/ground strata), Black Spruce + Tamarack &gt;50%   10b Shrub = &lt;10% tree cover AND &gt;=10% shrub cover   10c None = &lt;10% tree cover AND &lt;10% shrub cover   10.5a Tree = &gt;=10% tree cover (usually along wetland edge; may only be in shrub/ground strata)   10.5b Shrub = &lt;10% tree cover AND &gt;=10% shrub cover   10.5c None = &lt;10% tree cover AND &lt;10% shrub cover   11a None = usually along a water body edge &gt;=10% emergent vegetation cover, &lt;10% tree cover   12a Tree = &gt;10% tree cover   12b Shrub = &lt;10% tree cover   13a None = &lt;10% shrub/tree cover   14a Lake = In standing water &lt;10% emergent vegetation cover   14b River = In flowing water &lt;10% emergent vegetation cover</p>
Missing Values	DNC = Did Not Collect   PNA = Protocol Not Applicable   VNA = Variable Not Applicable

Ecosite - Structural Stage

Unique ID	W02B_IC00163
Attribute Definition	Describes the structure stage of the ecosite, as determined after the ecological-site type has been designated i.e. the nutrient/moisture code designation and tree species modifier. The structure stage code starts with a number that defines 1) tree-dominated, 2) non-tree dominated, or 3) open water ecosites. The subsequent letter codes further describe the ecosite structure, in terms of type of vegetation (or dominant substrate type for non-vegetated sites), as well as height and density of vegetation.
Value Type	Code
Code	For full explanation of the code definitions, see Terrestrial/Wetland Metadata Appendix: Detailed Code Definitions. 1) = Tree Dominated Ecosites   Tree Height: TS = Short   TT = Tall   Tree Density: D = Dense   S = Sparse   Tree Arrangement: C = Complex   N = Non-Complex   2) = Non-Tree Dominated Ecosites   N = Non-Vegetated   Substrate Type: R = Rock   S = Sand   B = Beach   M = Mineral Soil   O = Organic Soil   G = Ground Vegetation Only:   Vegetation Type: B = Bryoid/Lichen   F = Forbs   G = Graminoid   R = Reeds and Rushes (Marsh)   Vegetation Density: D = Dense   M = Moderate   S = Sparse   S = Shrubs present   Shrub Height: L = Low   T = Tall   Shrub Density: D = Dense   M = Moderate   S = Sparse   3) = Open Water Dominated Communities   Vegetation Type: OV = Vegetated   ON = Non-Vegetated   Vegetation Height: S = Short Submerged   M = Medium Submerged   T = Tall Submerged   F = Floating   Vegetation Density: D = Dense   M = Moderate   S = Sparse
Missing Values	DNC = Did Not Collect   PNA = Protocol Not Applicable   VNA = Variable Not Applicable

Shrub/Tree Cover <0.5 metres (%)

Unique ID	W02B_IC00292
Attribute Definition	Estimate of the percent cover of shrubs/trees (woody vascular plants) less than 0.5 metres tall.
Value Type	Number
Unit	percent
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Shrub/Tree Cover 0.5 to 1.29 metres (%)

Unique ID	W02B_IC00292_2
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Attribute Definition	Estimate of the percent cover of shrubs/trees (woody vascular plants) between 0.5 and 1.29 metres tall.
Value Type	Number
Unit	percent
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Shrub/Tree Cover 1.30 to 5.0 metres (%)

Unique ID	W02B_IC00292_3
Attribute Definition	Estimate of the percent cover of shrubs/trees (woody vascular plants) between 1.3 and 5.0 metres tall.
Value Type	Number
Unit	percent
Missing Values	DNC = Did Not Collect   VNA = Variable Not Applicable

Shrub/Tree Cover >5.0 metres (%)

Unique ID	W02B_IC01196
Attribute Definition	Estimate of the percent cover of shrubs/trees (woody vascular plants) greater than 5.0 metres tall.
Value Type	Number
Unit	Percent
Missing Values	DNC = Did Not Collect   PNA = Protocol Not Applicable   VNA = Variable Not Applicable