

Terrestrial T12A 2-Dimensional Cover Ecosite Raw Data Metadata

Rotation

Unique ID	T12A_IC00001
Attribute Definition	Reference describing when data was collected at a broad level (i.e., Prototype, Rotation 1, Rotation 2). The rotation number indicates the visit number (i.e. 1 = first visit, 2 = second visit or first revisit).
Value Type	Text
Code	Prototype = 2003--2006 Rotation 1 = 2007 onward Rotation 2 = 2015 onward

ABMI Site

Unique ID	T12A_IC00003
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 OG prefix, 2-5 letter project code prefix, and a 1-2 digit suffix.
Value Type	Number
Format	1-4 digits & 1 letter (if necessary); OG & 2-5 letter prefix, 1-4 digits, and 1-2 digit suffix
Range	1-1656; OG & 2-5 letter prefix (if applicable)

Year

Unique ID	T12A_IC00002
Attribute Definition	Collection year.
Value Type	Date
Format	YYYY

Field Date

Unique ID	T12A_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	T12A_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

Quadrant

Unique ID	T12A_IC00259
Attribute Definition	Quadrant where the 5 x 5 m plot for Shrub 2D cover was collected.
Value Type	Text
Format	2 letters (UPPERCASE); 8 letter word
Code	NE = Northeast quadrant NW = Northwest quadrant SE = Southeast quadrant SW = Southwest quadrant Dominant

Primary Ecosite - Nutrient/Moisture Code

Unique ID	T12A_IC00162
Attribute Definition	Nutrient and moisture code for the ecological site classification of each 5 x 5 m plot 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 of 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 <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 <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 >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

Primary Ecosite - Tree Species Modifier

Unique ID	T12A_IC00164
Attribute Definition	At every 5 x 5 m plot 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 >80% 02a Pine = Jack Pine + Lodgepole Pine >50% 02b Other = Aspen + White Spruce + Engelmann Spruce + Subalpine Fir + Western White Pine >50% 02c Sb = Black Spruce >50% 03a None = No Trees 03b Pine = Jack Pine + Lodgepole Pine >50% 03c AwMix = Aspen >20% 03d Spruce = White Spruce + Engelmann Spruce + Subalpine Fir >50% 04a Pine = Jack Pine + Lodgepole Pine + Subalpine Fir >50% 04b PjMix = Aspen + White Birch + White Spruce > 20% AND Jack Pine >=20% 04c Aw = Aspen >50% 04d AwMix = Aspen > 20% AND White Spruce + Black Spruce + Lodgepole Pine >20% 04e Spruce = White Spruce >50% 05a Poplar = Balsam Poplar + Aspen >50% 05b Spruce = White Spruce + Engelmann Spruce >50% 05c Sb = Black Spruce >50% 06a Pine = Lodgepole Pine >50% 06b Poplar = Balsam Poplar + Aspen >50% 06c Spruce = White Spruce + Engelmann Spruce + Subalpine Fir >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 = >=10% tree cover (may only be in shrub/ground strata), Black Spruce >50% 08b Shrub = <10% tree cover 09a SbLt = >=10% tree cover (may only be in shrub/ground strata), Black Spruce + Tamarack >50% 09b Shrub = <10% tree cover 10a SbLt = >=10% tree cover (may only be in shrub/ground strata), Black Spruce + Tamarack >50% 10b Shrub = <10% tree cover AND >=10% shrub cover 10c None = <10% tree cover AND <10% shrub cover 10.5a Tree = >=10% tree cover (usually along wetland edge; may only be in shrub/ground strata 10.5b Shrub = <10% tree cover AND >=10% shrub cover 10.5c None = <10% tree cover AND <10% shrub cover 11a None = usually along a water body edge >=10% emergent vegetation cover, <10% tree cover 12a Tree = >10% tree cover 12b Shrub = <10% tree cover 13a None = <10% shrub/tree cover 14a Lake = In standing water <10% emergent vegetation cover 14b River = In flowing water <10% emergent vegetation cover</p>
Missing Values	DNC = Did Not Collect PNA = Protocol Not Applicable VNA = Variable Not Applicable

Primary Ecosite - Structural Stage

Unique ID	T12A_IC00163
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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

Percent Area of Primary Ecological Site Classification

Unique ID	T12A_IC00227
Attribute Definition	Percent of the area within the 5 x 5 m plot described by the primary ecological site classification (2007-2011: 5% increments; 2012 onward: 10% increments).
Value Type	Number
Format	2 digits
Range	10%-100%
Unit	percent
Missing Values	DNC = Did Not Collect VNA = Variable Not Applicable

Slope Position

Unique ID	T12A_IC00299
Attribute Definition	Position of the 5 x 5 m plot with respect to the slope.

Value Type	Code
Format	1 letter (UPPERCASE) and 1 number (if necessary)
Code	C = Crest - situated in a relatively level area on the top of a hill S1 = Slope - situated on the side of a hill, a modifier of 1 indicates slopes of 2-5 degrees, S2 = Slope - situated on the side of a hill, a modifier of 2 indicates slopes of 6-10 degrees, S3 = Slope - situated on the side of a hill, a modifier of 3 indicates slopes of 11-30 degrees, S4 = Slope - situated on the side of a hill, a modifier of 4 indicates slopes of >30 degrees, T = Toe - situated at the bottom of a hill where the ground surface transitions from a slope to level L = Level - situated in an area with <2 degrees slope D = Depression - situated in an area that accumulates water after rains
Missing Values	DNC = Did Not Collect VNA = Variable Not Applicable

Slope Direction

Unique ID	T12A_IC00298
Attribute Definition	Direction of the slope (looking downhill) where the 5 x 5 m is located.
Value Type	Number
Format	1-3 digits
Range	0-359
Missing Values	DNC = Did Not Collect PNA = Protocol Not Applicable VNA = Variable Not Applicable

Total Shrub Cover < 0.5 meters (Percent)

Unique ID	T12A_IC00332
Attribute Definition	Total percent cover estimate that would be obtained if a photograph had been taken from a height of 0.5 m. Only recorded for sites in grassland/parkland ecoregions.
Value Type	Code
Code	0 < 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Missing Values	DNC = Did Not Collect PNA = Protocol Not Applicable VNA = Variable Not Applicable

Total Shrub Cover 0.5 to 1.29 meters (Percent)

Unique ID	T12A_IC00332_2
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Attribute Definition	Total percent cover estimate that would be obtained if a photograph had been taken from a height of 1.3 m, with shrubs/saplings <0.5 m removed.
Value Type	Code
Code	0 < 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Missing Values	DNC = Did Not Collect PNA = Protocol Not Applicable VNA = Variable Not Applicable

Total Shrub Cover > 1.3 meters (Percent)

Unique ID	T12A_IC00332_3
Attribute Definition	Total percent cover estimate that would be obtained if a photograph had been taken from a height of 5 m, with shrubs <1.3 m removed.
Value Type	Code
Code	0 < 1 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100
Missing Values	DNC = Did Not Collect PNA = Protocol Not Applicable VNA = Variable Not Applicable