082E097

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
082E097

Scale: 1:20,000

1 0 0.25 0.5 0.75 1 Kilometers
0.5 0 0.5 1 Miles

Vegetation Data Source: MFLNRO - VRMS / Ownership
Base Map Source: TRIM / Satellite

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to support the essential functions of the Ministry of Forests, Lands, and Natural Resource Operations. The information contained on this map is subject to change. Private property, administrative boundaries and the ownership status thereof are for reference purposes only. Users are responsible for verification.

Lands Projected To: January 1, 2010

MAP SYMBOLOGY

Forest Inventory Feature:
- Forest Vegetation Polygons
- Structure Opening or Inventory
- Permanent Sample Plot (PSP)
- Research Installations

TRIM - Base Features:
- Multi-lane Roads
- Forest Service Road Lines
- Paved Roads
- Rough Roads
- Trails/Tracks
- Railways
- Air Fields
- Other Area
- Powerlines
- Pipelines
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aerial Nav. - 1M
- Watercourses - 1M
- Waterbodies - 1M
- Wetlands - 20M
- Glacier - 1M

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - 1:50M
- Int. Region Compartment - 1:50M
- Provincial Forest area - 1:50M
- Timber Supply Area Block - 1:50M
- Tree Farm Licenses - 1:50M
- Land Ownership Lines
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundaries (1:1,000,000 for 1:10 to hectare)
- Municipal boundaries (1:1,000,000 for 1:1 to 1:50 hectare)
- National Parks
- Park Reserves
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreational Areas

Other:
- NTS/BCGS Grid (1:50,000)

VEGETATION LABEL DETAILS

Example of a Vegetation Label:

LINE DESCRIPTION
1 Polygon Number and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
4 Age, Height, Crown Closure (specific descriptors as FX (Douglas Fir) and Hw (Western Hemlock))
5 Age, Height, Crown Closure Class Code - separator - this Index I delineated by:
6 Vegetated Density Class (or Non-Forest/Productive Descriptor)
7 Disturbance History & year - as suggested in MTB.

Line 1 - History Record Opening Number
opening number valid in BCGS mapsheet / 0000 opening number has not been assigned

Line 2 - Polygon No. - Multi-layer
VRMS Polygon Number - ranging from one to nine digits
L Multi-layered polygons assigned a number if each layer is available in the data base, i.e. 1.2)

Line 3 - Species Composition
All species codes are listed in their order of predominance. Major first three in brackets.
The following codes are based on TSA Layout List Version 5.0 dated January 2006

NATIVE CONIFERS

Bl	Alpine Fir
Ep	Whitebark Pine
Y	Cypress
Cw	Western Redcedar
Fdc	Coastal Douglas-Fir
Fd	Douglas-Fir
Fa	Alpine Fir
Lw	Western Larch
M	Grand Fir
Pl	Lodgepole Pine
Pli	Lodgepole Pine (Interior)
Plc	Lodgepole Pine (Coastal)
Pw	Western White Pine
Pa	Whitebark Pine
Py	Ponderosa Pine
Sb	Black Spruce
Se	Engelmann Spruce
Sx	White Spruce
Ss	Sitka Spruce
Sa	Spruce (Undif)
Sw	White x Engelmann Hybrid
Sxl	White x Lutz Hybrid
Sxs	White x Sitka Hybrid
Yc	Yellow Cedar
Ylc	Lawson Yew

NATIVE HARDWOODS

D	Deciduous
E	Alder
Ep	Paper Birch
Ea	Alder (Undif)
Ew	Alder (Western) or POPLAR
Eb	Red Alder
Epa	Balsam Poplar
Ept	Trembling Aspen
Ep	Poplar (Undif)
K	Cottonwood
A	ARBUTUS
Ac	Black Cottonwood
Ae	Aspen
Ap	Paper Birch
Bpa	Balsam Poplar hybrid
Bpt	Trembling Aspen
Bp	Poplar (Undif)
C	Cascara
G	Garry Oak
H	Hazel Spp.
Dr	Red Alder
Dc	Dry Cherry
Dw	Wet Cherry
Dm	Pacific Dogwood (western flowering)
Mb	Maple/Maple (broadleaf)
Mv	Vine Maple
Ma	Maple (Undif)
W	Willow
Wb	Willow (Bog)
Wp	Pacific Willow (Hooker)
Wbb	Bebb Willow (Beaked)
Wsi	Sitka Willow (Sitka Alder)
Wa	Willow (Undif)
Wd	Other Willow Hardwoods

UNKNOWN - OTHER

X	Unknown
Xc	Conifer (Undif)
Xd	Deciduous (Undif)
Z	OTHER (see cruiser list)
Zm	Mountain Hemlock
Zp	Pine (Undif)

EXOTICS

Ex	Exotic
Ee	Alder
Ew	ABIES, COTTONWOOD or POPLAR
Ep	Poplar (Undif)
Eb	Red Alder
Epa	Silver Birch (exotic)
Ept	Aspen
Ep	Poplar (Undif)
Y	CYPRESS
Yc	Yellow Cedar
Ylc	Lawson Yew
Ylc	Lawson Yew
Bl	Alpine Fir
Bp	Scots Pn
Pl	Lodgepole Pn
P	Pine (Undif)
Lt	Tamarack Larch
Lx	Larch (Undif)
Ss	Sitka Spruce
Se	Engelmann Spruce
Sw	White x Engelmann Hybrid
Sxl	White x Lutz Hybrid
Sxs	White x Sitka Hybrid
Sx	White Spruce
Sa	Spruce (Undif)
Hm	Hemlock
Hw	Western Hemlock
Hx	Hemlock (Undif)
Fd	Douglas-Fir
Fdc	Coastal Douglas-Fir
Fdi	Douglas-Fir (Interior)
Fdx	Douglas-Fir (Undif)
Fa	Alpine Fir
Fg	Grand Fir
Fb	Balsam
Fbl	Alpine Fir
Fa	Fir (Undif)
Cw	Western Redcedar
Cy	Cypress (Undif)
Cb	Redcedar (Bastard)
Cr	Redcedar (Undif)
Ce	Eastern White Cedar
Cp	Pacific Yew
Cx	Cedar (Undif)
Ac	Black Cottonwood
Ae	Aspen
Ap	Paper Birch
Ep	Poplar (Undif)
Ea	Alder (Undif)

Line 4

4a. AGE CLASS

CODE	LIMITS (years)
1	0-20
2	21-40
3	41-60
4	61-80
5	81-100
6	101-120
7	121-140
8	141-160
9	161+

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0-4.4
2	4.5-7.4
3	7.5-10.4
4	10.5-13.4
5	13.5-16.4
6	16.5-19.4
7	19.5-22.4
8	22.5-25.4
9	25.5-28.4
0	28.5-31.4
A	31.5-34.4
B	34.5-37.4
C	37.5-40.4
D	40.5-43.4
E	43.5-46.4
F	46.5-49.4
G	49.5-52.4
H	52.5-55.4
I	55.5-58.4
J	58.5-61.4
K	61.5-64.4
L	64.5+

4c. CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
1	0 - 5
2	6 - 10
3	11 - 15
4	16 - 20
5	21 - 25
6	26 - 30
7	31 - 35
8	36 - 40
9	41 - 45
0	46 - 50
A	51 - 55
B	56 - 60
C	61 - 65
D	66 - 70
E	71 - 75
F	76 - 80
G	81 - 85
H	86 - 90
I	91 - 95
J	96 - 100

4d SITE INDEX
Site index is the expected mature reference age (50 years) height (Hgt). It is based on the age and height of the dominant and co-dominant trees in a stand. Site index is site specific and is not affected by stand density or species composition.

4e. ESTIMATES SITE INDEX
Site index estimates are based on a range of values (decimal) e.g. young stands (<30yrs). It is derived by a stand structure analysis (SSA) or by using the Site Tool. Site Tool is a BEC based model. Site Tool should not be estimated across units.

Line 5 - Vegetation Density

VEGETATED NON-TREE (NATIVE/EXOTIC) (line 5 and Line 6b)

NON-TREED SHRUB
- SA - SHRUB ALPINE
- SB - SHRUB
- SC - SHRUB COASTAL
- SI - SHRUB INTERIOR

shrub with average shrub height > or = to two metres, shrub with average shrub height < than two metres

NON-TREED GRASS
- GA - GRASS ALPINE
- GB - GRASS
- GC - GRASS COASTAL
- GI - GRASS INTERIOR

herb with no distinction between moose and timber/no moose

NON-VEGETATED CATEGORIES (line 5 and Line 6b)
- AP - ASPECT
- B - BLUFF/CLIFF
- BL - BOULDERS
- BR - BOULDERS & ROCK
- CL - CLIFF
- EA - EARTH/SOIL
- ES - ESKER
- F - FAN
- G - GRAVEL
- GL - GLACIER
- I - ICEFIELD
- L - LAKE
- LAND - LAND
- LS - LANDSLIDE/SLIP
- M - MORAINE
- MUDFLAT - MUDFLAT
- O - OTHER
- RIVER - RIVER/STREAM
- ROCK - ROCK
- S - SCREE
- SAND - SAND
- SNOW - SNOW/ICE
- TALUS - TALUS
- W - WATER

Note: More categories may be added in the future

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (line 5 / line 6b)
- ALPINE
- BRUSH FOREST Species
- CULTIVATED
- FOREST
- GRASS MIX
- GRASS
- HERBS
- MEADOW
- MIXED FOREST
- NP - NON-PRODUCTIVE
- NPBRUSH - NON-PRODUCTIVE BRUSH
- NPFOREST - NON-PRODUCTIVE FOREST Species
- NPN - NON-PRODUCTIVE NATIVE
- NPX - NON-PRODUCTIVE EXOTIC
- OPEN
- SHRUB
- WETLAND
- NONE - NONE
- NC - NON COMMERCIAL
- NCBRUSH - NON COMMERCIAL BRUSH
- NPBRUSH - NON-PRODUCTIVE BRUSH
- NPFOREST - NON-PRODUCTIVE FOREST
- NPX - NOT PRODUCTIVE EXOTIC

Line 6 - Disturbance History

Disturbance type codes are assigned by symbol, followed by earliest date.
Four occurrences of disturbance type descriptions (alpha) in the order code list for sub-category descriptions.

- A - Animal Damage
- B - Broom
- D - Disease
- E - Insect and Insect Damage
- F - Fire
- L - Logging
- M - Mechanical
- N - Non-Biological Agents
- P - Cone and Seedling Fungal Pathogens
- R - Site Rehabilitation
- S - Silviculture Activity
- W - Damage Unknown
- V - Probable Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either WIP or ArcMap. The Regional Silviculture Coordinator is:

The Ministry of Forests, Mines and Lands web application WATKYNS is available to view this type of detailed information. Select the WATKYNS TUNE tab then click on "Display Silviculture" to turn on display values for:

OPENING
OPENING LABELS
SILVICULTURE ACTIVITY
ACTIVITY TREATMENT UNIT
SILVICULTURE
SILVICULTURE FOREST COVER
SILVICULTURE TREE PATCH

Overflow Labels

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