082M032

Vegetation Map
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BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers
0 0.25 0.5 Miles

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

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to support the analytical functions of the Ministry of Forests, Lands, and Natural Resource Operations. The information portrayed may not be complete and up to date (Data=X, at reinitialize boundaries and the Ownership colour theme are for reference purposes only. Legend versions June 2016)

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Sensitive Opening Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

TRIM_Base Features:
- All Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Planes
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrodhydrants - ESRI
- Watercourses - ESRI
- Waterbodies - ESRI
- Wetlands - ESRI
- Ocean - ESRI

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- NV Region Compartment - FADM
- Provincial Forest area - FADM
- Timber Supply Area Block - FADM
- Tree Farm Licenses - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Terrains
- Municipal boundary (1:1,000,000 for "1" & "N" NATS)
- Municipal boundary (1:1,000,000 for / no NATS)
- National Parks
- First Nations
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreation Areas

Other:
- BCGS Mapsheet Grid (1:20,000)

VEGETATION LABEL DETAILS

Example of a Vegetation Label:

LINE DESCRIPTION:
1 Structure# symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
4 Age, Height, Crown Closure Class Code - separator: 5 Vdt Hdet = estimated SI
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
6 Disturbance History (MoF) - eg. Logged in 1979, juvenile trees and grasslands, shrubs less than 2m.

Line 1 - History Record Opening Number

OXX - opening number valid for BCGS mapsheet; zzzx - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRMS Polygon Number - ranging from one to nine digits
L - Multi-layered stand (a separate description of each layer is available in the data base, i.e. 1,2)

Line 3 - BC Tree Code List

Species Composition: Species are lsitedin their order of predominance. Major first Minor in brackets.
The following codes are based on "The B.C. Ministry of Forests Tree Code List" version 4.4 dated January 2009.

NATIVE CONIFERS

CODE	
Cw	Western Red Cedar
Y	CYPRESS
Ba	Balsam Fir
Fd	DOUGLAS FIR
Fdc	Douglas Fir
Fdi	Interior Douglas Fir
Fdl	Inland Douglas Fir
Hw	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulo-Juniper
Lw	Larch
Lt	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (Interior)
Plc	Lodgepole x Jack Pine hybrid
Pm	Mountain Hemlock
Pw	Western White Pine
Py	Ponderosa Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Sitka x white hybrid
Sxl	Sitka x white hybrid
Sx	Sitka Spruce
Yc	Western Yew

NATIVE HARDWOODS

CODE	
A	ALDER
Ar	Red Alder
D	APPLE
Dw	Western Crab Apple
Ac	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
At	Trembling Aspen
Ae	Black Cottonwood
Ah	Hybrid Poplars
Ab	BIRCH
Ac	Alaska Birch
E	BIRCH
Ep	Paper Birch
Epa	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Epc	Cascade
Ep	CASCARA
Ep	Cascara
Ep	ELM
Eo	Siberian Elm
H	Cratus Chrysy
H	HAWTHORN
Hx	Hawthorn (thornless/ seedless)
M	MAPLE
Mb	Broadleaf Maple (Arbutus)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wa	Bebb's Willow
Wb	Black Willow
Wd	Drummond Willow (Barebutt)
Wp	Pussy Willow (grey leaved)
Wr	Red Willow
Ws	Sitka Willow (low leaved)

UNKNOWN - OTHER

CODE	
Xc	unknown conifer
Xh	unknown hardwood
Xl	unknown leaf (dec)
Xs	other shrub
Xt	other hardwood

EXOTICS

CODE	
Ak	AKEBIA
Ae	ASPEN, COTTONWOOD or POPLAR
Ab	BIRCH
Ea	European Birch
Ej	Japanese White Birch
Ep	Yellow Birch
Ch	CHERRY
Ys	Sweet Cherry
Yt	Tree Cherry
Yv	Virginia Cherry
Cr	FIR (Eastern)
Bb	Balsam Fir
Bn	Noble Fir
Bm	Shasta Red Fir
Bc	Subalpine Fir
Lw	LARCH
Ld	Daharian Larch
Le	European Larch
MAPLE	
Mr	Box Elder
Mn	Norway Maple
Mp	Sycamore Maple
OAK	
Qw	Engish Oak
Qm	Mongolian
OTHER EXOTICS	
Ow	Incense Cedar
Ol	Port Orford Cedar
Oh	Coast Redwood
Of	European Mountain Ash
Ot	Giant Sequoia/Redwood
Oc	Common Pear
Og	Dragon Ash
Oa	Russian Olive
Ow	Wingbark Hickory
Oj	Japanese Larch
Oh	Japanese Walnut
PINE	
Pm	Monterey Pine
Pr	Red Pine
Pn	Austrian Pine
SPRUCE	
Sn	Norway Spruce

Line 4

4a. AGE CLASS

CODE	LIMITS (years)
1	1-20
2	21-40
3	41-60
4	61-80
5	81-100
6	101-120
7	121-140
8	141-250
9	251 +

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 13.4
3	13.5 - 19.4
4	28.5 - 37.4
5	37.5 - 43.4
6	46.5 - 55.4
7	55.5 - 64.4
8	65.5 +

4c. CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
0	0 - 5
1	6 - 10
2	11 - 20
3	21 - 30
4	31 - 40
5	41 - 50
6	51 - 60
7	61 - 70
8	71 - 80
9	81 - 100

4d SITE INDEX

Site index is the tree's height in metres achieved at 50 years (breast height age). SI is based on the age of dominant trees (leading species). When an accurate SI cannot be obtained from local yield curves, a site index estimate is assigned by the interpreter.

4e. ESTIMATED SITE INDEX

An estimated site index is assigned to a stand present, e.g. Fdc(Hw 21) = Douglas fir (western hemlock 21). Access to stand-structure descriptions found in the data base are mandatory for those wishing to estimate timber yields.

Line 5 - Vegetation records

VEGETATED NON-TREE CATEGORIES (5a-V and I records)

NON-TREED SHRUB
- SL SHRUB LOW - shrub with average shrub height < or = to two metres
- SH SHRUB HIGH - shrub with average shrub height > two metres

NON-TREED HERB
- H HERB - herb with no distinction between forbs and graminoids.
- HF HERB - FORBS - herb with forbs > 50% of the herb cover.
- HG HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON-TREED SHRUB/HERB
- MB SHRUB/HERB - mixed with no distinction between treeand dshrubs by cover.
- MH SHRUB/HERB - MIXED - mixed with mosses, liverworts, and lichens(s) > 50% of the ground cover.
- MH SHRUB/HERB - COVERED - mixed with lichens > 50% of the ground cover.

NON-VEGETATED CATEGORIES (5a-V and I records)

BE	BEACH	MU	MUDFLAT SEDIMENT
BI	BIOCRYSTALS	MW	MUSKEG WIND STEILS
B	BIOCRYSTALS	MI	OCEAN
BL	BOULDERS	OC	OCEAN
G	GLACIER/LAVA	RO	ROCK
GL	GLACIER/LAVA	SC	SNOW COVER
GT	GLACIER/LAVA	SI	SNOW/ICE
GT	GLACIER/LAVA	R	RIVER / STREAM
S	SAND/GRAVEL/SOILS		
SL	SLACKER		

Note: Water categories (w, ww, r) are labelled and fill percent coverage.

RM	RESERVOIR MARGIN
W	RIVER SEDIMENTS
WW	RIVER SURFACE
TA	TALUS
U	URBAN

NON FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (5a-F records)

AF	ALPINE FOREST Vegetation	NPB	NON-PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON-PRODUCTIVE BURN
CL	CLEARING	NPBS	NON-PRODUCTIVE CLEAR-Species
G	GRASS / MIX	NC	NOT APPLICABLE
GR	GRAVEL PIT	OA	OPEN AVALANCE
L	LAKE	OB	OPEN BROWSE
M	MEADOW	R	ROCK
MI	MUSKEG	SNOW	SNOW
		SAND	SAND
		TIDE	TIDAL FLAT
		U	URBAN
		NC	NON COMMERCIAL
NCBR	NON COMMERCIAL BRUSH		
NCBU	NON COMMERCIAL BURN		
NFA	NOT SUFFICIENTLY RESOVLED		
NFA	NO FT/PNG AVAILABLE		

Line 6 - Disturbance History

Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category; refer to official code list for sub-category descriptions.

- A Animal Damage
- C Cultivation
- D Diseases
- I Insects
- L Logging
- N Non-Damage
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Unaerge Unknown
- W Wildfire Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW
Data Catalogue under "Forestry". The MapKey example is of the Inv.PEST data.

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

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
SILVICULTURE
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH

Overflow Labels

082M032

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