1031047

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
1031047

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRIMS / Ownership
Base Map Source: TRIM / Tantalis

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 Cadastral, administrative boundaries and the Ownership colour theme are for reference purposes only. (Legend revisions June 2014).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Sructure Opening in Vegetation
- Permanent Sample Plot (CFS)
- Research Installations

TRIM_Base Features:
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Fairstrips
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Rail/Barriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- INV_Region-Compartment - FADM
- Provincial Forest area - FADM
- Timber Supply Area-Block - FADM
- Tree Farm Licenses - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (< 1:500,000 ha - 15 % hatch)
- Municipal boundary (> 1:500,000 ha) - no hatch)
- 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:

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    LINE 1 - 0127 8514
    LINE 2 - Fd 20 20 Hw
    LINE 3 - Cw 60
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LINE DESCRIPTION
1 Silviculture symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex: the most important layer is described as Fd (Douglis Fir) and Hw (Western Hemlock).
4 Age, Height, Crown Closure Class Code - separator: Site Index / estimated SI
ex: Fd 20 years old, 20 m high, Crown Closure Class 6 (51-60%), Hw 60 years, crown closure class 1 (5-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: a herb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1979

Line 1 - History Record Opening Number

0127 - opening number valid for BCGS mapsheet
0099 - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS 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 labeled in 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 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	YEW
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
Bp	Pacific Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Western Hemlock Hemlock hybrid
J	JUNIPER
Jr	Rocky Mt. Juniper
Js	Seaside Juniper
L	LARCH
Lt	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole Pine (interior)
Plx	Lodgepole Pine (Pl x Pw hybrid)
Py	Ponderosa Pine (Yellow)
Ps	Shore Pine (coast)
Pw	Western White Pine
Px	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	Western White Spruce
Sx	White Spruce
Sxl	Spruce hybrid
Sxw	Spruce hybrid White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Sw	White Spruce
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Ua	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
E	ARBUTUS
Re	Arbutus
Ep	BIRCH
Ew	Western Birch
Ewl	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vc	Choke Cherry
Vv	Choke Cherry
Vp	Pin Cherry
Vu	Unknown Cherry
Dp	Pacific Dogwood (western flowering)
G	GARRY OAK
Gd	Garry Oak
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Q	Vine Maple
Qg	Garry Oak
R	MOUNTAIN ASH
Rb	Sitka Mountain Ash
Rp	Pacific Willow
Rpg	Pacific Willow (Barclay's)
Rw	Pussy Willow (gray-leaved)
Rs	Scouler's Willow
Rf	Sitka Willow (bay-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xl	other conifer (not on list)
Z	other conifer
Zh	other hardwood

EXOTICS

Ua	APPLE Apple
Act	ASPEN, COTTONWOOD or POPLAR Balsam Cottonwood
E	BIRCH
Ea	European Birch
Ep	Paper Birch (ornamental)
Ey	*Yellow Birch
V	CHERRY
Vs	*Japanese Cherry
C	CYPRESS
Yp	*Pond Orford Cedar
Cl	*Lawson Cypress
Bm	*Balsam Fir
Bn	*Noble Fir
Bn	*Shasta Red Fir
Bc	*White Fir
L	LARCH
Ld	*Dahurian Larch
Lk	*Japanese Larch
Lt	*Siberian Larch
M	MAPLE
Mb	Box Elder
Mp	*Norway Maple
Ms	*Sycamore Maple
OAK	
Qe	*English Oak
Qn	*White Oak
OTHER EXOTICS	
Ce	*Incense Cedar
Ds	*Giant Sequoia
Ge	*Ginkgo Maple
Oa	European Mountain Ash
Ob	Siberian Elm (southern)
Oc	*Horsechestnut
Og	Oregon Ash
Oh	*White Ash
Oi	*Shagbark Hickory
Oj	Tree-of-Heaven
Ok	Japanese Walnut
P	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Pt	*Scots Pine
S	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 - 19.4
3	19.5 - 25.4
4	25.5 - 32.4
5	32.5 - 40.4
6	40.5 - 55.4
7	55.5 - 64.4
8	65.5 +

4c: CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
0	0 - 5
1	6 - 15
2	16 - 25
3	26 - 35
4	36 - 45
5	46 - 55
6	56 - 65
7	66 - 75
8	76 - 85
9	86 - 100

4d SITE INDEX
Site Index is the age in years to nearest metre referenced at 50 years breast height age. It is based on the age and height of the leading species. When an accurate SI cannot be obtained from age and height, estimated SI is shown after, or replaces the SI.

4e: ESTIMATED SITE INDEX
Estimated site index is used when a site index cannot present, e.g. young stands (<50yrs). It is denoted by a slash and is always precedes it. Associated fields in the data base are Inventory Type Group and SI Estimated source code.

Line 5 Vegetation records

VEGETATED NON-TREE CATEGORIES (for V and I records):

NON-TREES SHRUB
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- ss SHRUB LOW - shrub with average shrub height < two metres.

NON-TREES HERB
- he HERB - herb with no distinction between forbs and graminoids.
- hm HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

NON-TREES BRYOID
- bs BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses dominant > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records):

ap	AIRPORT	gl	GRAVEL PIT	mu	MUDFLAT SEDIMENT
be	BEACH	la	LAKE	mx	RUBBLY MINE SPOILS
bl	BOULDERFIELD	lk	LAKE, MINE	ri	RIVER
br	BEDROCK	ls	LANDING	rl	OTHER
bu	BURNED AREA	lt	POND or LAKE, SEDIMENTS	sn	SNOW COVER
cl	CLIFF	mi	MINE, GENERAL	sw	SEEPAGE
es	EXPOSED SOILS	mn	MORAINE	ur	RIVER / STREAM
gr	GLACIER				

Note: Water categories (la, ac, re, rl) not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I record):

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TEA	TEA FLAT
C	CULTIVATED	NPBS	NON PRODUCTIVE BURN	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRASS	NTA	NO TYPING AVAILABLE	NC	NON-COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMERCIAL BRUSH
L	LOGGED	R	ROCK	NCF	NON COMMERCIAL
M	MEADOW	RO	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	NTA	NO TYPING 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	L	Logging
B	Wildfire	M	Mite Damage
C	Insects and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
		S	Site Rehabilitation
		T	Treatment Injuries
		U	Damage Unknown
		V	Problem Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS 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 Map" to turn on display values for:-

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

Overflow Labels

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