092L009

Vegetation Map
092L009

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 - 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 display vegetation information for the Ministry of Forests, Lands and Natural Resource Operations. The information authored here will 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
- Structure Opening in Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airstrip/Helipad
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Rock/Non-Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

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 - Tantalis
- Municipal boundary (< 1,000,000 ha - 15 % hatch)
- Municipal boundary (> 1,000,000 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:

```
LINE  DESCRIPTION
 1    1. Silviculture symbol and Opening Number
 2    2. Polygon Number and multi-layer stand indicator (L)
 3    3. Species Composition
      ex. the most important layer is described as Fd (Douglis Fir) and Hw (Western Hemlock).
 4    4. Age, Height, Crown Closure Class Code - separator/ Site Index / estimated SI
      ex. stand is age class 2 (21-40 yrs), height class 1 (0.1-10.4m), crown closure class 1 (6-15%), SI 20m
 5    5. Vegetated Density Class (or Non-Forest/Productive Description)
      ex. a forb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
 6    6. Disturbance History & year - ex: Logged in 1978
```

Line 1 - History Record Opening Number

xxxx - 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	CYPRESS
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)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sessile Juniper
L	LARCH
Lt	Alpine Larch
Lw	Tamarack
Lx	Hybrid Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Pli	Lodgepole Pine (Yukon hybrid)
Py	Ponderosa Pine (yellow)
Pw	Shore Pine (coast)
Pxj	Hybrid Jack Pine
Pxw	Whitebark Pine
S	SPRUCE
Se	Englemann Spruce
Sx	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxs	Hybrid Spruce
Sxw	Engelmann x White
Sxl	Sitka x White
Sxw	Sitka x unknown hybrid
Ss	Sitka Spruce
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Ap	Pacific Crab Apple
A	BALSAM COTTONWOOD or POPLAR
At	Balsam Poplar
Act	Black Cottonwood
Ah	Hybrid Poplar
Ax	Hybrid Poplars
Al	Trembling Aspen
E	BIRCH
Ea	Alaska Paper Birch
Ew	Water Birch
K	CASCARA
V	Cascara
C	CHERRY
Vc	Choke Cherry
Vv	Bitter Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gb	Garry Oak
W	WILLOW
Wp	Pacific Willow
Wp	Pacific Willow
Ww	Peachleaf Willow (Bantzley's)
Wr	Pussy Willow (gray-leaved)
Wy	Scouler's Willow
Ww	Sitka Willow (tree-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ux	APPLE
	ASPEN, COTTONWOOD or POPLAR
Ae	*Southern Cottonwood
Ep	*Aspen
Ea	European Birch
Ek	Silver Birch (swamp)
Ey	*Yellow Birch
Vs	CHERRY
	*Sweet Cherry
Vp	*Pin Cherry
	*Purd Orford Cedar
Ld	FIR (Balsam)
Lk	*Balkam Fir
Lx	HYBRID LARCH
Mx	MAPLE
Mr	Box Elder
Mn	*Norway Maple
Mp	*Sycamore Maple
	OAK
Qe	*English Oak
Qw	*White Oak
	OTHER EXOTICS
Oa	*Black Locust
Os	*Giant Sequoia
Ok	*Coast Redwood
Oe	*European Mountain Ash
Ok	Siberian Elm (southern)
Of	Common Pear
Og	Dragon Ash
Oh	*Shagbark Hickory
Ot	*Tree of Heaven
Ow	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Py	*Ponderosa 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 - 19.4
3	19.5 - 28.4
4	28.5 - 37.4
5	37.5 - 46.4
6	46.5 - 55.4
7	55.5 - 64.4
8	65.5 +

4c. CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
1	6 - 10
2	11 - 15
3	16 - 25
4	26 - 35
5	36 - 45
6	46 - 55
7	56 - 65
8	66 - 75
9	76 - 85
0	86 - 100

4d SITE INDEX

SI is are shown to the nearest metre referenced at 50 years breast height Age. SI is based on the age and height of the leading species. When an accurate SI cannot be obtained from age and height combinations above, or where the SI

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aremit present, e.g. young stands <10yrs). It is denoted by a slash which 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-TREED SHRUB
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- u SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- he HERB - herb with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOID - herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- by BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED CATEGORIES (for V and I records)

bl	BOULDERFIELD	gl	GRAVEL PIT		
be	BEACH	la	LAKE		
bl	BLOCKFIELD	li	LAVA BED		
bu	BURNED	mi	MINE		
bua	BURNED AREA	mp	POND at LAKE SEDIMENTS		
cb	CUTBANK	ms	OPEN PIT MINE		
es	EXPOSED SOILS	mo	MORAINE		
gl	GLACIER				
mu	MUDFLAT SEDIMENT				
my	RUBBLY MINE SPOILS				
oc	OCEAN				
ri	RIVER				
pn	SNOW COVER				
re	RESERVOIR				
rv	RIVER - STREAM				
rm	RESERVOIR MARGIN				
ra	RAILWAY SURFACE				
rs	RIVER SEDIMENTS				
ro	ROAD SURFACE				
ta	TALUS				
ti	TAILINGS				
ur	URBAN				

Note: Water categories (lake, re, rv) not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I records)

A	ALPINE	NP	NPC	NON PRODUCTIVE	SAND SAND
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NOT TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OE	OPEN BANKS	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	P	HAYFIELD	NP	NON PRODUCTIVE
L	LAKE	R	ROCK	NPBR	NON PRODUCTIVE RESTOCKED
MUD	MUDFLAT	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.

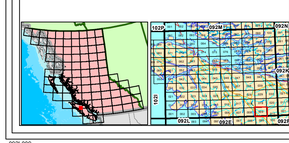
A	Animal Damage	L	Logging
B	Wildfire	M	Misc Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

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
- ACTIVITY TREATMENT UNIT
- SILVICULTURE
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH



092L009