093L064

Vegetation Map
093L064

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 / 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 contained on this map is not to be used for navigation. Boundaries and 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 (SIYU)
- Research Installations

TRIM, Base Features:
- 4m Bulk Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airframes
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Reflectors - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADW
- MV Region Compartment - FADW
- Provincial Forest area - FADW
- Timber Supply Area Block - FADW
- Tree Farm Licenses - FADW
- 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 Structure Number and Opening Number
2 Polygon Number and multi-layer stand indicator (LL)
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: a layer with trees 141-250 years old, 25.1-28.4 m tall, and crown closure class 1 (6-15%), 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 1978

Line 1 - History Record Opening Number

- opening number valid for BCGS mapsheet
(xxx) - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRMS Polygon Number - ranging from one to nine digits
5, - 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

Cw	Western Red Cedar
Y	CYPRESS
H	HEMLOCK
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Ba	Amabilis Fir
Bg	Grand Fir
B	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sawtooth Juniper*
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coastal)
Plx	Lodgepole x Jack Pine hybrid
Pj	Jack Pine (boreal)
Pla	Alaska Pine (cassiar)
Pw	Western White Pine
Pxj	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	Sitka Spruce
Sw	White Spruce
Se	Engelmann Spruce
Sxl	Sitka x White
Sxw	Sitka x Western hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	DOGWOOD
Dr	Red Osier
E	ARBUTUS
Ep	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Black Cottonwood
At	Trembling Aspen
Ax	Hybrid Poplars
Ap	Balsam Poplar
Ax	HYBRID
E	BIRCH
Ep	Alaska x Paper Birch
Exp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ey	Yellow Birch
K	DOGWOOD
Kc	Cascara
Kp	Pacific Dogwood
Ve	Mountain Ash
Vv	Choke Cherry
Vu	Bitter Cherry
C	CRABAPPLE
Cp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Or	Garry Oak
R	WILLOW
Rb	Bebb's Willow
Rh	Hooker's Willow
Rw	Peachleaf Willow (Bambo's)
Rw	Pussy Willow (prop.leaved)
Rs	Scouler's Willow
Rl	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xl	other (shrub or tall)
Xs	other shrub
Zh	other hardwood

EXOTICS

Ag	AGRO
Ap	ASPEN, COTTONWOOD or POPLAR (EUROPEAN Cottonwood (BROAD)
Be	European Birch
Bn	Japanese White Birch
Ey	Yellow Birch
Ch	CHESTNUT
Yc	Horse Chestnut
Y	CYPRESS
Yc	Monterey Cedar
F	FIR (Balsam)
Bp	Noble Fir
Bs	Noble Fir
Bm	Shasta Red Fir
Bv	Veitch Fir
L	LARCH
Le	*Dahurian Larch
Lk	*Japanese Larch (KARA)
Mk	Box Elder
Mn	Norway Maple
Mp	*Sycamore Maple
OAK	
Oe	*English Oak
Ow	*White Oak
P	PINE (EXOTIC)
Pc	*Corsican Pine
Pn	*Austrian Pine
Pp	*Ponderosa Pine
Pe	European Mountain Ash
Pm	*Scots Pine (Scotch)
Q	Common Pear
Qg	Oregon Ash
Qi	Green Ash
Qr	*Douglas's Hickory
Qt	Tree-of-heaven
Qw	*Japanese Walnut (WA)
Rh	*Monterey Pine
Rp	Red Pine
Rp	*Scots Pine
SPRUCE	
Sn	*Norway Spruce

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	141-250
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)
0	0 - 5
1	6 - 15
2	16 - 25
3	26 - 35
4	36 - 45
5	46 - 55
6	56 - 75
7	76 - 85
8	86 - 95
9	96 - 100

4d SITE INDEX
All SI are shown to the nearest metre referenced at 50 years breast Height Age. SI is based on the age and height of the dominant and co-dominant trees (the tallest trees of similar age and height), estimated SI is shown after, or replaces the SI.

4e: ESTIMATED SITE INDEX
SI is estimated when suitable SI trees cannot present, e.g. young stands (<30yrs). It is denoted by a slash which always precedes the estimated number. Site Index Source and Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

VEGETATED NON TREE CATEGORIES (for V and I records)

HF	HERB FIELD
SC	SHRUB TALL - shrub with average shrub height > or = to two metres.
S	SHRUB LOW - 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 gramnoids > 50% of the herb cover.

NON-TREED BRYOID

B	BRYOID - bryoid with no distinction between mosses and lichens by cover.
BM	BRYOID - MOSS - bryoid with mosses, liverwork, and hornwork > 50% of the bryoid cover.
BY	BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED CATEGORIES (for I records)

AF	ALPINE FEATURES	LL	LAKE
bm	BEACH	R	LAKE
bo	BOULDERFIELD	RE	LAKE
bl	BOULDERS	RI	LAKE
bu	BURNED AREA	rs	POND or LAKE SEDIMENTS
cb	CLIFF/BANK	rm	RIVER or STREAM
ea	EXPOSED SOILS	rv	RIVER
gl	GLACIER		

mu	MISCELLANEOUS	ra	RESERVOIR MARGIN
ms	MOSS	ro	RIVERBANK SPOILS
rn	ROCK	rp	RUBBLY MINE SPOILS
sn	SNOW	rr	ROAD SURFACE
sc	SNOW COVER	rs	ROAD SURFACE
sf	SNOWFIELD	sl	TALUS
	WASTE / STREAM	ta	TAILINGS
	WASTE		UNKNOWN

Note: Water categories (ie. la, re, rv) not labelled over 60 percent coverage.

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

A	ALPINE	NP	NON-PRODUCTIVE
C	CULTIVATED FOREST-Species	NPB	NON-PRODUCTIVE BRUSH
C	CULTIVATED	NPBG	NON-PRODUCTIVE BLUFF
CL	CLAY BANK	NPF	NON-PRODUCTIVE FOREST Species
CR	CROPLAND	NPL	NON-PRODUCTIVE LAKE
OR	ORCHARD	OP	OPEN RANGE
M	MEADOW	R	ROCK
MUD	MUD FLAT	S	SNOW

SAND	SAND		
U	UNKNOWN		
V	VARIOUS		
NC	NON-COMMERCIAL		
NCB	NON-COMMERCIAL BRUSH		
NF	NON-FORESTED		
NSR	NOT SUFFICIENTLY RESTOCKED		
NTA	NOT TYPING AVAILABLE		

Line 6 - Disturbance History

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

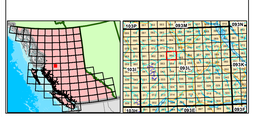
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Competing Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

Example Opening History Details

Detailed Structure information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of thermal RESULTS data.

The Ministry of Forests, Mines and Lands web application "MapView" is available for viewing this information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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



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Overflow Labels