093F004

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093F004

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 contained in this map is compiled from up-to-date Cadastral, administrative boundaries and the Ownership colour theme are for reference purposes only. (Logging Divisions June 2014)

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

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

TRIM, Base Features:
- Au Built Roads
- Forest Service Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydr/Anth/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

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:

Cw 251 Fdi/Hw 70 Bg/Cw

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 (Douglas Fir) and Hw (Western Hemlock).
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 5 (6-15%), SI 20m
5 Species Composition - Indicator for subsequent layer(s)
ex: a hard 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

xxxx - opening number valid for BCGS mapsheet zzzzz - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS Polygon Number - assigned when 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	Subalpine Fir
Bg	Grand Fir
Bl	Alpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hwk	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sawlog Juniper
L	LARCH
La	Subalpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plq	Lodgepole x Jack Pine hybrid
Pm	Mountain Pine (Alpine)
Psy	Shore Pine (coast)
Pw	Western White Pine
Pw	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sep	Prince Rupert
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Sitka x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Sxw	White
Ss	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
Ep	Pacific Crab Apple
Ept	Pacific COTTONWOOD or POPLAR
Ew	Poplar
Act	Balsam Poplar
At	Black Cottonwood
Ax	Hybrid Poplars
Ac	Trembling Aspen
K	WILLOW
Ka	Alaska
Kc	Scouler
Ke	Alaska Paper Birch
Kk	Alaska Paper Birch Hybrid
Kp	Paper Birch (White)
Kw	Water Birch
Kx	Willow spp.
V	CHERRY
Vb	Black Cherry
Vc	Choke Cherry
Vp	Pin Cherry
Vu	Unknown Cherry
W	MAPLE
Wb	Broadleaf Maple (broadleaf)
Wv	Vine Maple
Q	OAK
Qg	Garry Oak
Z	WILLOW
Zb	Bebb's Willow
Zc	Black Cottonwood
Zhw	Peachleaf Willow (Banks's)
Zlw	Pussy Willow (grey-haired)
Zsw	Sitka Willow
Zw	Sitka Willow (tree-leaved)

UNKNOWN - OTHER

X	unknown conifer
Xh	unknown hardwood
Xl	unknown (alive or not)
Xo	other conifer
Xh	other hardwood

EXOTICS

Y	APPLE
Yp	APPLE
AE	Southern Cottonwood
Ag	Grand Fir
Ew	European Birch
Ey	Silver Birch (exempt)
Ep	Paper Birch
CHERRY	
Vs	Sweet Cherry
Vm	Mazzard
Vr	Pin/ Choke Cherry
Vx	Hybrid Cherry
Bp	Basket Fir
Bs	Silver Fir
Dg	Sharp-Red Fir
Rr	White Fir
Lk	Dahurian Larch
Lx	Siberian Larch
Ma	Ash
Mb	Box Elder
Mr	Norway Maple
Mp	Silver/Sycamore Maple
OAK	
Qe	English Oak
Qr	Red Oak
OTHER EXOTICS	
Ce	Incense Cedar
Cp	Port Orford Cedar
Cs	Coast Redwood
Gb	European Mountain Ash
Gm	Mountain Ash (exempt)
Gn	Common Pear
Gp	Oregon Ash
Gr	Rowan Tree
Gt	Kingsville Hickory
Gw	Walnut
Uk	Japanese Walnut
PINE	
Pn	Monterey Pine
Pr	Red Pine
Pp	Ponderosa
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	141-200
9	201 +

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 - 65
7	66 - 75
8	76 - 85
9	86 - 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. Site index is estimated from age and height, estimated SI is shown after, or replaces the SI.

4e ESTIMATED SITE INDEX
SI is estimated where suitable SI trees exist present, e.g. young stands (<50yrs) . It is denoted by a slash which always precedes the estimated site index. Estimated SI is from Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

VEGETATED NON TREE CATEGORIES (for V and I records)

SHRUBS
- sh SHRUB TALL - shrub with average shrub height > or = two metres.
- s SHRUB LOW - shrub with average shrub height < two metres.

NON TREED HERB
- H HERB - 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 BRYOID
- b BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverwots, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED CATEGORIES (for V and I records)

aa	AIRPORT	gg	GRAVEL PIT	ss	SLUDGE/ SEDIMENT
ac	CLEARING	h	ICE	sw	SURFACE WATER
bl	BLOCKFIELD	k	LAVA BED	sx	SURFACE WASTE
bu	BUILT-UP	l	LOCKED	t	TALUS
bx	BURNED AREA	n	POND or LAKE SEDIMENTS	w	SNOW COVER
cn	CANAL	o	OPEN WATER	wg	GLACIER ICE
ex	EXPOSED ROCK	q	QUARRY	ww	WATER (SPRING)
gl	GLACIER				

rm	RESERVOIR MARGIN		
rr	RAILWAY SURFACE		
rs	ROAD SEDIMENTS		
rz	ROAD SURFACE		
tz	TALUS		
ww	WATER		
uu	URBAN		

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

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

A	ALPINE	NP	NON-PRODUCTIVE
BC	BURNED FOREST -Species	NPB	NON-PRODUCTIVE BRUSH
CL	CULTIVATED	NPBG	NON-PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON-PRODUCTIVE FOREST -Species
GL	GLACIAL TILL	NPL	NON-PRODUCTIVE SALINE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
MS	MUSKEG	R	ROCK
MUD	MUDFLAT	S	SWAMP

SAND	SAND		
SLT	SILT / CLAY		
URBAN	URBAN		
NC	NON COMMERCIAL		
NCBR	NON COMMERCIAL BRUSH		
NP	NON PRODUCTIVE		
NSR	NOT SATISFACTORILY RESTOCKED		
NTA	NO TYPING AVAILABLE		

Line 6 - Disturbance History

Disturbance type code preceded by symbol, followed by earliest date
Symbol indicates if disturbance type designates category, refer to official code list for sub-category descriptions.

A	Animal Damage	L	Logging
B	Wildfire	N	Natural Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
	Insects		

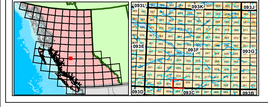
R	Site Rehabilitation		
S	Silviculture Treatment		
U	Damage Unknown		
V	Problem Vegetation		

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 Layers' to turn on display values for :

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



Overflow Labels