Vegetation Map
092O057

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 support the analytical functions of the Ministry of Forests, Lands, and Natural Resource Operations. The information contained on this map is compiled from a variety of sources. 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
- Silviculture Opening in Vegetation
- Permanent Sample Plot (VRI)
- Research Installations

TRIM_Base Features:
- 4ac Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Gravel Roads
- Trails/Cutlines
- Railways
- Airf ields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofan/Barriers - ESRI
- Watercourses - ESRI
- Waterbodies - ESRI
- Wetlands - ESRI
- Ocean - ESRI

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 (< 1,000,000 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 Silviculture symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex: Pli Hoid Important layer is dominated ex 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 (0-10.4m), crown closure class 1 (5-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: Sparsely vegetated - trees, shrubs, non-tod ferbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Opening Number

OOO - opening number valid for BCGS mapsheet AAAA - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS Polygon Number - ranges 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. University of Forests Tree Code List" version 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	YEW
Yc	*Yellow Cypress
H	HEMLOCK
Fd	Douglas Fir
Fdi	Interior Douglas Fir
Fdc	Coastal Douglas Fir
B	FIR (Balsam)
Bl	Subalpine Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
Bp	Pacific Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Western x Mountain hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole Pine (interior)
Pli x Pl	Lodgepole Pine hybrid
Py	Ponderosa Pine (yellow)
Ps	Shore Pine (scrub)
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Sa	Alaska Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxw	Spruce hybrid
Sxe	Engelmann x White
Sxs	Sitka x White
Sxs	Sitka x unknown hybrid
YEW	
Ye	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Da	Sitka Alder
At	Pacific Cott-Aspte
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Ae	Balsam Poplar
Ac	Black Cottonwood
Ax	Hybrid Poplars
Ap	Unidentified Aspen
E	BROADLEAF
Ma	Arbutus
Ep	Paper Birch
Ea	Alaska Paper Birch
Epg	Alaska x Paper Birch hybrid
Ew	Water Birch (Alder)
Ew	Water Birch
K	CASCARA
Dg	Dogwood
C	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
G	GOSMOOD
Hw	Black Hawthorn
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gb	Garry Oak
W	WILLOW
Wp	Pacific Willow
Wb	Pacific Willow
Ww	Peachleaf Willow (Bentzly's)
Wr	Red Willow (Sandbar Willow)
Wi	Scouler's Willow
Wl	Sitka Willow (low leaved)

UNKNOWN / OTHER

X	UNKNOWN conifer
Xc	unknown coniferous
Xh	UNKNOWN hardwood
Xl	unknown (low val on top)
Xc	other conifer
Xh	other hardwood

EXOTICS

Ea	APPLE
Ea	Apple
Ax	NAME COTTONWOOD or POPLAR
Ax	Hybrid Poplar
Ab	*Southern Cottonwood
Ba	BIRCH
Ba	*European Birch
Bp	Silver Birch (swamp)
Ec	CHERRY
Ec	*Japanese Cherry
Cy	CYPRESS
Ys	*Port Orford Cedar
Fb	FIR (Balsam)
Fb	*Balsam Fir
Bb	Noble Fir
Bm	*Veitch Silver Fir
Bm	*White Fir
L	LARCH
Le	*European Larch
Lj	*Siberian Larch
M	MAPLE
Mn	*Norway Maple
Mn	*Sycamore Maple
O	OAK
Oc	*English Oak
Or	*Red Oak
Ot	OTHER EXOTICS
Ou	*Ovarbe Cedar
Ou	*Western Redcedar
Oc	*Coast Redwood
Of	*European White Ash
Ob	*Siberian Elm (southern)
Oc	Common Pear
Oh	*Horse Chestnut
Ow	*White Ash
Oh	*Shagbark Hickory
Oj	*Black Walnut
Oj	Japanese Walnut
Pm	PINE
Pm	*Monterey Pine
Pn	*Scots Pine
Pn	*Austrian Pine
Sn	SPRUCE
Sn	*Norway Spruce

Line 4

4a AGE CLASS

CODE	LIMITS (years)
0	1-20
1	21-40
2	41-60
3	61-80
4	81-100
5	101-120
6	121-140
7	141-250
8	251 +

4b HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 19.4
3	19.5 - 27.4
4	27.5 - 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 estimated when there are no site trees or 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

SI is estimated when suitable SI trees cannot present, e.g. Immature stands, Non-Forest, Alpine, etc. SI is estimated using procedures & associated tables in the data base and Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records :

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

NON-TREES SHRUB

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

NON-TREES 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-Vegetated

bs	BRYOIDS
bm	BRYOID - MOSS
bl	BRYOID - LICHEN

- bryoid with no distinction between mosses and lichens by cover.
- bryoid with mosses, liverworts, and hornworts > 50% of the bryoid cover.
- bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records)

bl	BARE SOIL	ms	MUDFLAT SEDIMENT	rm	RESERVOIR MARGIN
bm	BEACH	mt	MUDDLY MINE SPOILS	rr	RAILWAY SURFACE
bl	BLOCKFIELD	la	OCEAN	rs	ROAD SEDIMENTS
br	BURNED	ls	LAKE	rp	ROAD SURFACE
bu	BURNED AREA	lk	LAKE SEDIMENTS	rk	TALUS
ec	EXPOSED CLIFF	lo	OPEN PIT MINE	rt	TAILINGS
es	EXPOSED SOILS	lr	RIVER / STREAM	u	URBAN
gl	GLACIER	rd	RUBBLE		

Note: Water categories (la, ls, ar, rv, rr) standard over 90 percent coverage.

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

A	ALPINE	NPBR	NON PRODUCTIVE BRUSH
AF	ALPINE FOREST Species	NPBU	NON PRODUCTIVE BURN
C	CULTIVATED	NPBU	NON PRODUCTIVE FOREST Species
D	DISTURBED	NVR	NOT VEGETATED AVAILABLE
GR	GRAVEL PIT	OR	OPEN RANGE
M	MEADOW	R	ROCK
W	MOSS/LICHEN	SCA	SCARIFIED
MUD	MUD FLAT	S	SWAMP
SAND	SAND		
TIDE	TIDAL FLAT		
U	URBAN		
NC	NON COMMERCIAL		
NCBR	NON COMMERCIAL BRUSH		
NF	NON FOREST		
NOS	NOT SUFFICIENTLY RESTOCKED		
NTA	NO TYPING AVAILABLE		

Line 6 - Disturbance History

Disturbance type code preceded 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	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Thinning		
U	Damage Unknown		
V	Problem Vegetation		

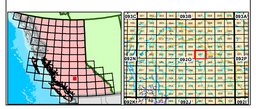
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either ArcGIS or ArcMap. The MapView example is of thematic RESULTS data.

The Ministry of Forests, Mines and Lands web application (http://www.for.gov.bc.ca/hre/sid/) is a 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
SILVICULTURE TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH



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