093B013

Vegetation Map
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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 2 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
- Silviculture Opening in Vegetation
- Permanent Sample Plot (2010)
- Research Installations

TRIM. Base Features:
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airstrips
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Ice/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 hyc - 15 % hatch)
- Municipal boundary (< 1:500,000 hyc - 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. 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. stand is age class 2 (21-40 yrs), height class 1 (10.1-16.4m), crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Description)
ex. Stocking class A (well stocked) - 70-100% cover between herbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Coping Number :

0123 - opening number valid for BCGS mapsheet

0123* - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

YSMU Polygon Number - ranging from one to nine digits
A, - 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 4.6 dataed January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
F	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	Sawcide Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (Coast) Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Shore Pine (coast)
Pxj	Hybrid Pine (jack)
Pa	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Englemann Spruce
Sx	Sitka Spruce
Sxe	Spruce hybrid
Sxw	Englemann x White
Sxs	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
Ep	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Abb	Balsam Poplar
Ac	Black Cottonwood
Ax	Hybrid Poplars
Af	Trembling Aspen
Ap	Poplar sp.
Pa	Arbutus
E	BIRCH
Ep	Alaska Paper Birch
Exp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ey	Yellow Birch
C	CASCARA
Cc	Cascara
G	GARRY OAK
Vb	Bitter Cherry
Vv	Choke Cherry
Vp	Pin Cherry
D	DOGWOOD
Dp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
U	ELM
Gp	Carry Oak
W	WILLOW
Wp	Pacific Willow
Wb	Pacific Willow
Wa	Peachleaf Willow (Barclay's)
Wp	Pacific Willow (Hooker's leaved)
Ws	Scouler's Willow
Ww	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

E	APPLE
Ep	Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ad	*Southern Cottonwood
Ae	*Aspen
Ew	*European Birch
Ev	Silver Birch (warsitz)
Ep	*Paper Birch
C	CHERRY
Vs	*Sweet Cherry
Vm	*Mazzard
Vp	*Purl Orford Cedar
F	FIR (Balsam)
Bb	*Noble Fir
Bn	Noble Fir
Bm	*Shasta Red Fir
Bp	*Grand Fir
L	LARCH
Lr	*Dahurian Larch
Ll	*European larch
M	MAPLE
Mr	Box Elder
Mn	*Norway Maple
Mh	*Sycamore Maple
O#4	OAK
Oe	*English Oak
Qw	*White Oak
O	OTHER EXOTICS
Ob	*Black Walnut
Oc	*Giant Sequoia
Or	*Coast Redwood
Oa	*Green/Red/Manchr Ash
Ow	Siberian Elm (southern)
Of	Common Pear
Ob	*Black Locust
Oh	*White Ash
Ot	*Shagbarck Hickory
Oj	*Japanese Larch
Oj	Japanese Walnut
PINE	
Pm	*Monterey Pine
Pr	*Red Pine
Pp	*Sugar Pine
Pw	*White Pine
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 - 10.1
2	10.2 - 16.4
3	16.5 - 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	% (percentage)
1	0 - 5
2	6 - 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

Measure the height of the nearest metre reference=ed at 50 years. Record the site sub. SI 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 known after, or replaces the SI.

4e ESTIMATED SITE INDEX

Estimated site index is used when no site index current present, e.g. young stands (<40yrs). If an SI is entered it is a stem 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)

sa	SHRUB TALL - shrub with average shrub height > or = to two metres.
sd	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 > 50% of the herb cover.
hg	HERB - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

NON-TREED BRYOID

bc	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

w	Exposed Land
ss	Rock / Rubble
sr	Snow / Ice

NON-VEGETATIVE CATEGORIES (for V and I records)

aa	AIRPORT	gg	GRAVEL PIT	mu	MUDFLAT SEDIMENT
ac	CLEARING	h	HEAD	mw	MARSH WINE SPOILS
bl	BLOCKFIELD	la	LAVA BED	o	OCEAN
br	BEDROCK	li	LANDING	ot	OTHER
cb	CUTBANK/ESCARPMENT	ls	LANDSLIDE SEGMENTS	p	PERMANENT COVER
cl	CUTBANK	mb	OPEN PIT MINE	r	RESERVOIR
es	EXPOSED SOILS	mr	MORAINE	s	RIVER / STREAM
gl	GLACIER				

Note: Water categories (la, o, r, s) not labelled over 50 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F record's)

AF	AGRICULTURE FIELD	NB	NON-BRUSHABLE	SAND	SAND
AT	ALPINE FOREST Species	NBR	NON PRODUCTIVE BRUSH	TEA	TEA FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
CL	CLEARING	NPL	NON PRODUCTIVE FOREST Species		
G	GRASS, BAR	NTA	NO TYPING AVAILABLE	NC	NON-COMMERCIAL
GR	GRAVEL PIT	OK	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
M	MEADOW	P	POTENTIAL	NP	NON PRODUCTIVE
M	MEADOW	R	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.

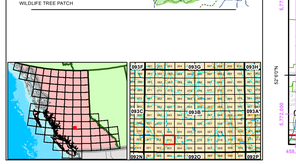
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mile Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

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 http://www.for.gov.bc.ca/hts/ has more detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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



Overflow Labels

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