092M098

Vegetation Map
092M098

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 information relevant to 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 (CFS)
- Research Installations

TRIM Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Non-Barriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

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: the most important layer is described as Fd (Dougls 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 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 Opning Number

OXF - opening number valid for BCGS mapsheet OXW - 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 Compotition: 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
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Fu	Douglas Fir hybrid
Bg	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sweetsk Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxe	Spruce hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sx	Spruce unknown hybrid
Yew	YEW
Tw	Western Yew

NATIVE HARDWOODS

Ep	ALDER
Dr	Red Alder
Sa	Sitka Alder
Ep	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Act	Balsam Poplar
Act	Black Cottonwood
Ax	Hybrid Poplar
At	Trembling Aspen
Ep	Poplar
E	Arbutus
E	BIRCH
Ep	Alaska x Paper Birch
Ep	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Ep	CHERRY
V	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
Vp	Pin Cherry
Dg	Pacific Dogwood (western flowering)
Mb	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
Qg	Oregon Oak
Wb	Bebb's Willow
Wp	Pacific Willow
Wsp	Scouler's Willow (flantop's)
Wl	Pacific Willow (spray harvest)
Ws	Scouler's Willow
Wl	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

Ue	APPLE
	ASPEN, COTTONWOOD or POPLAR
Act	*Southern Cottonwood
	BIRCH
Ea	*European Birch
Ep	Silver Birch (swamp)
Ey	*Yellow Birch
	CHERRY
Vs	Sweet Cherry
Vy	*Pin Cherry
Yo	*Port Orford Cedar
	FIR (Balsam)
Bp	*Noble Fir
Bs	*Shasta Red Fir
Bw	*White Fir
Bx	White Fir
	LARCH
Ld	*European Larch
Lj	*Siberian Larch
	MAPLE
Mb	Box Elder
Mr	Norway Maple
Mr	*Sycamore Maple
	OAK
Qg	*English Oak
Qw	*White Oak
	OTHER EXOTICS
Ot	*Incense Cedar
Ob	*Giant Sequoia
Ob	*Monterey Cypress
Oa	*European Mountain Ash
Ow	Siberian Elm (southern)
Oc	*Black Locust
Og	Oregon Ash
Ow	*White Ash
Oj	*Shagbark Hickory
Oj	Tree-of-heaven
Ow	*Japanese Walnut
	PINE
Pm	*Monterey Pine
Pn	*Austrian Pine
Pa	*Scots 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)
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 leading species. When an accurate SI cannot be obtained from age and height, estimated SI is shown after, or replace the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aremit present, e.g. young stands (<30yrs). 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
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- sd 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 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 - LICHES - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED
- at Exposed Land
- w Water
- s Snow / Ice

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

ap	AIRPORT	gp	GRAVEL PIT	mu	MUD/FLAT SEDIMENT	rm	RESERVOIR MARGIN
b	BEACH	m	MINE	mz	RUBBLE/ MINE SPOILS	rr	RAILWAY SURFACE
bl	BLOCKFIELD	lk	LAVA BED	ro	OCEAN	rs	RIVER SEGMENTS
br	BEDROCK	lf	LANDING	ot	OTHER	ro	ROAD SURFACE
cb	CUTBANK/AREA	p	PONDS on LAKE SEDIMENTS	sc	SPARSE COVER	s	SNOW
cs	CUTSTAMPS	mx	OPEN PIT MINE	re	RESERVOIR	ta	TAILINGS
es	EXPOSED SOILS	mv	MORAINE	r	RIVER / STREAM	ur	URBAN
gl	GLACIER						

Note: Water categories (lk, ro, re, r) not labelled over 50 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F records):

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
CL	CUTBLOCK	NPBU	NON PRODUCTIVE BURN	U	URBAN
FL	FLOODING	NPF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	P	HAYFIELD	NP	NON PRODUCTIVE
L	LAKE/RIVER	R	ROCK	NPBR	NON PRODUCTIVE 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.

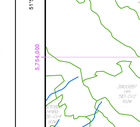
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

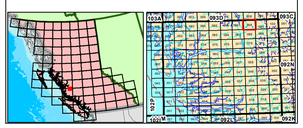
Example Opening History Details

Detailed Silviculture information is available on the BCGW
as flatfiles, either ESRI or ArcMap. The MapView example is
of thened 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 TREATING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels

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