093B077

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093B077

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 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
- Sructutre Opening in Vegetation
- Permanent Sample Plot (VRI)
- Research Installations

TRIM. Base Features:
- 4x Build Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf'ields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aq-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 (> 1,000,000 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 (Douglis Fir) and Hw (Western Hemlock).
4 Age, Height, Crown Closure Class Code - separator: '50e 1m/ex' = estimated SI
ex: stand is age class 2 (21-40 yrs), height class 1 (2.1-10.4m), crown closure class 1 (5-15%), SI 20m
5 Non-Forest Descriptor and Non-Vegetative Descriptors
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
- 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 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 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
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Hemlock Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Savin Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Alpine Pine
Pl	Lodge Pine
Pli	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Plx	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	White Pine
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Se	Englemann Spruce
Sx	Englemann Spruce Hybrid
Ss	Sitka Spruce
Sw	White Spruce
Sxl	Spruce hybrid
Sxw	Engelmann x White
Sxs	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	DOGWOOD
E	Red Alder
U	APPLE
Ue	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Black Cottonwood
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
Ep	ARBUTUS
Ra	Arbutus
Ep	Alder
Epa	Alaska Paper Birch
Epl	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ep	Paper Birch
K	CASCARA
V	CHERRY
Vc	Bitter Cherry
Vs	Choke Cherry
Vv	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
W	WILLOW
Wr	Scouler's Willow
Wy	Sitka Willow (low leaved)
x	UNKNOWN
xc	unknown conifer
xh	unknown hardwood
Z	OTHER (they do not ex)
Zc	other conifer
Zh	other hardwood

EXOTICS

A	APPLE
At	ASPEN, COTTONWOOD or POPLAR
Atc	Southern Cottonwood
Ew	Western Birch
Ey	European Birch
Ep	Paper Birch (clumps)
Ekw	*Yellow Birch
Vs	CHERRY
	*Schmidt Cherry
Yc	CYPRESS
Yp	*Port Orford Cedar
Lk	LARCH
Lkx	*Subalpine Fir
Bp	Noble Fir
Bpr	*Grand Fir
Bm	*Shasta Fir
Lj	LARCH
Ljp	*Japanese Larch
Lp	*Siberian Larch
M	MAPLE
Mr	Red Maple
Mt	*Tatarian Maple
Mk	*Norway Maple
Qr	*Kingdon Oak
Qw	*White Oak
	OTHER EXOTICS
Oa	*Horse Chestnut
Oc	*Coast Redwood
Oe	*Common Hackberry
Ol	*Siberian Elm (southern)
Of	Common Pear
Oh	*Black Locust
Ow	*White Ash
Od	*Shagbarck Hickory
Oj	*Black Walnut
Ojr	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pn	*Red Pine
Py	*Sugar Pine
Pp	Pitch 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 - 10.4
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	5 - 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 meant to the nearest metre referenced at 50 years breast Height Age. SI is based on the age and height of the dominant trees in the stand. If the site index is known from inventory age and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aren=t present, e.g. young stands (<30yrs). It is denoted by a (e)after which always follows the estimated SI value. The SI source code is from Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

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

NON-TREED SHRUB

w	SHRUB TALL - shrub with average shrub height >= 4 < to 2 metres.
s	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 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, liverwarts, and hornwarts > 50% of the bryoid cover.
bl	BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED

el	Exposed Land
ro	Rock / Rubble
sr	Snow / Ice

NON-VEGETATED CATEGORIES *(for N and I records)*

ss	SAND	ml	MUD FLAT	mr	RESERVOIR MARGIN
sw	BEACH	w	LAKES	mrs	RUBBLY MINE SPOILS
sl	BLOCKFIELD	b	LAVA BED	rr	RAILWAY SURFACE
sr	ROCKBLUFF	m	MARSH	rs	RIVER SEDIMENTS
su	BURNED AREA	p	POND or LAKE SEDIMENTS	rz	RUBBLE (MINE)
sb	CUTBANK	mc	OPEN PIT MINE	tz	TAILINGS
sc	CONSOLIDATED FILL	mq	MORAINE	ta	TAILINGS POND
si	GLACIER				

Note: Water categories (w, wr, ri, rz) not labelled over 50 percent coverage.

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

A	ALPINE	MP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST /Species	MPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
BR	BRUSH	MPF	NON PRODUCTIVE FOREST /Species	U	URBAN
CL	CLAY BANK	MPT	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GL	GLACIER	O	OPENINGS	NCBR	NON COMMERCIAL BRUSH
KIS	KOPJEFIELD	P	PASTURE	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 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	R	Site Rehabilitation
B	Wildfire	M	Mite 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 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 - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH

093O						093G						093H					
15	14	13	12	11	10	15	14	13	12	11	10	15	14	13	12	11	10
16	01	02	03	04	05	16	01	02	03	04	05	16	01	02	03	04	05
09	08	07	06	09	08	07	06	09	08	07	06	09	08	07	06	09	08
10	11	12	13	14	15	10	11	12	13	14	15	10	11	12	13	14	15
05	04	03	02	01	16	05	04	03	02	01	16	05	04	03	02	01	16
08	07	06	09	08	07	08	07	06	09	08	07	08	07	06	09	08	07
093J						093B						093A					
15	14	13	12	11	10	15	14	13	12	11	10	15	14	13	12	11	10
16	01	02	03	04	05	16	01	02	03	04	05	16	01	02	03	04	05
09	08	07	06	09	08	07	06	09	08	07	06	09	08	07	06	09	08
10	11	12	13	14	15	10	11	12	13	14	15	10	11	12	13	14	15
05	04	03	02	01	16	05	04	03	02	01	16	05	04	03	02	01	16
08	07	06	09	08	07	08	07	06	09	08	07	08	07	06	09	08	07
093K						093C						093D					
15	14	13	12	11	10	15	14	13	12	11	10	15	14	13	12	11	10
16	01	02	03	04	05	16	01	02	03	04	05	16	01	02	03	04	05
09	08	07	06	09	08	07	06	09	08	07	06	09	08	07	06	09	08
10	11	12	13	14	15	10	11	12	13	14	15	10	11	12	13	14	15
05	04	03	02	01	16	05	04	03	02	01	16	05	04	03	02	01	16
08	07	06	09	08	07	08	07	06	09	08	07	08	07	06	09	08	07
093N						093E						093F					
15	14	13	12	11	10	15	14	13	12	11	10	15	14	13	12	11	10
16	01	02	03	04	05	16	01	02	03	04	05	16	01	02	03	04	05
09	08	07	06	09	08	07	06	09	08	07	06	09	08	07	06	09	08
10	11	12	13	14	15	10	11	12	13	14	15	10	11	12	13	14	15
05	04	03	02	01	16	05	04	03	02	01	16	05	04	03	02	01	16
08	07	06	09	08	07	08	07	06	09	08	07	08	07	06	09	08	07

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