093C087

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093C087

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
- Structure Opening in Vegetation
- Permanent Sample Plot (CVTS)
- 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
- Hydrolns/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 - 16 % 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 - Site Index / estimated SI
ex: 121-140 yrs, 22.5-27.4m, 4 (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 Opening Number

093* - opening number valid for BCGS mapsheet 093# - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS 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 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Nootka Cypress
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (TRUE)
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	Seaside Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coast) Pine hybrid
Pp	Ponderosa Pine (yellow)
Ps	Shore Pine (coast)
Pw	Whitebark Pine
Py	Whitebark Pine
S	SPRUCE
Sa	Alpine Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Spruce hybrid White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ARBUTUS
D	Pacific
U	APPLE
Ue	Pacific Crab Apple
At	ASPEN, COTTONWOOD or POPLAR
Ac	Aspen
Act	Black Cottonwood
Acf	Black Cottonwood
At	Trembling Aspen
E	BIRCH
R	ARBUTUS
E	BIRCH
Ep	Alaska Paper Birch
Epp	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vm	Bitter Cherry
Vy	Choke Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gb	Garry Oak
W	WILLOW
Wp	Pacific Willow
Wb	Pacific Willow
Wtr	Peachleaf Willow (Bentley's)
Wr	Pussy Willow (gray-leaved)
Wrr	Scouler's Willow
Wsp	Scouler's Willow (silver-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xn	unknown conifer
Xh	unknown hardwood
Xl	unknown (did not on list)
Zz	other conifer
Zh	other hardwood

EXOTICS

Ue	Apple
At	ASPEN, COTTONWOOD or POPLAR
Ae	Southern Cottonwood
E	BIRCH
Ea	European Birch
Ey	Silver Birch (swamp)
Ey	Yellow Birch
F	FIR
Fa	Silver Fir
Bb	Balkan Fir
Bn	Noble Fir
Bm	Shasta Red Fir
Bc	White Fir
L	LARCH
Ld	Dahurian Larch
Ls	Siberian Larch
M	MAPLE
Me	Box Elder
Mn	Norway Maple
Ms	Sycamore Maple
O	OAK
Qe	English Oak
Qw	White Oak
	OTHER EXOTICS
Ch	Chestnut
Ob	Giant Sequoia
Ol	Coast Redwood
Oa	American Mountain Ash
Oe	Siberian Elm (southern)
Of	Common Pear
Og	Oregon Ash
Oh	White Ash
Ow	Black Walnut, Hickory
O	Tree-of-Heaven
Ok	Japanese Walnut
P	PINE
Pm	Monterey Pine
Pr	Red Pine
Ps	Scots Pine
S	SPRUCE
Sn	Norway Spruce
Yp	Port Orford Cedar
F	FIR (Balsam)
Bb	Balkan Fir
Bn	Noble Fir
Bm	Shasta Red Fir
Bc	White Fir
L	LARCH
Ld	Dahurian Larch
Ls	Siberian Larch
M	MAPLE
Me	Box Elder
Mn	Norway Maple
Ms	Sycamore Maple
O	OAK
Qe	English Oak
Qw	White Oak
	OTHER EXOTICS
Ch	Chestnut
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Ow	Black Walnut, Hickory
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Ok	Japanese Walnut
P	PINE
Pm	Monterey Pine
Pr	Red Pine
Ps	Scots Pine
S	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
SI to 1 yr at nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. Where the relationship of age and height, estimated SI is shown after or replaces the SI.

4e. ESTIMATED SITE INDEX
SI is estimated where suitable SI trees arenot present, e.g. young stands (<30yrs). It is denoted by a stash which always follows the estimated site index. Site Index 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
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- u SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- h HERB - herb with no distinction between forbs and graminoids.
- he HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

NON-TREED BRYOID
- by BRYOIDS - 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 CATEGORIES (for Y and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
ar	ROCK	m	MINE	mw	SUBBILY MINE SPOILS
bl	BLOCKFIELD	b	LAVA BED	oc	OCEAN
br	BEDROCK	l	LANDING	of	OTHER
cb	CONSOLIDATED AREA	la	LAKE/SALT LAKE SEDIMENTS	os	OVERHEAD COVER
cu	CUTBANK	os	OPEN PIT MINE	re	RESERVOIR
ep	EXPOSED SOILS	mn	MORAINE	r	RIVER / STREAM
g	GLACIER				

Note: Water categories (la, ou, re, r) not labelled over 80 percent coverage.

rm	RESERVOIR MARGIN		SAND	SAND
rm	RAILWAY SURFACE		TIDE	TIDAL FLAT
rs	RIVER SEDIMENTS		W	WATER
rz	ROAD SURFACE			
s	SAND			
ta	TAILINGS			
ur	URBAN			

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

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST (Species	NPBR	NON PRODUCTIVE BRUSH
B	BARREN	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE
GL	GRASS/LAND	P	PRODUCTIVE
ICE	ICEFIELD	PF	HAYFIELD
M	MEADOW	R	ROCK
MUD	MUDFLAT	S	SWAMP

NC	NON COMMERCIAL
NPBR	NON PRODUCTIVE BRUSH
NP	NON PRODUCTIVE
NSR	NOT SUFFICIENTLY RESTOCKED
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.

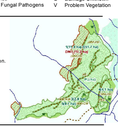
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Blowdown	M	Mine Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Disease	P	Cone and Seeding Fungal Pathogens	V	Problem Vegetation
I	Insects				

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 "Results" 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



Overflow Labels

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