103A084

Vegetation Map
103A084

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 - VRMS / 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 meet the needs 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 (GYPSI)
- Research Installations

TRIM Base Features:
- All-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
- Hydrkedfeatures - 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:

OE
ESC
Fdfir
2L(1)
Inst
Cpr

LINE DESCRIPTION
1 Silviculture symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex: the most important layers is described as Fd (Douglas Fir) and Hw (Western Hemlock).
4 Age Class, Height Class, Crown Closure Class, Site Index / estimated SI
ex: stand is age class 2 (21-40 yrs), height class 1 (0 - 10.4m), crown closure class 1 (6-10%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: a fen 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

OE - opening number valid for BCGS mapsheet
DO# - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRMS 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 "Tree 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	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Ba	Amabalis 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	Sweetie Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Albert Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (Interior)
Pyl	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pli	Shore Pine (coast)
Pw	Western White Pine
Pxj	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sx	Sitka Spruce
Sw	White Spruce
Sr	Spruce hybrid
Sxw	Engelmann x White
Sxl	Interior Hybrid
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dl	Red Alder
Dm	Mountain
Up	Pacific Crab-Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Balsam Poplar
Act	Black Cottonwood
Ax	Hybrid Poplars
At	Trembling Aspen
AB	ARBUTUS
E	BIRCH
Ep	Alaska Paper Birch
Epp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ey	Yellow Birch
K	CASCARA
Ks	Cascara
V	Choke Cherry
Vi	Bitter Cherry
Vv	Choke Cherry
Vp	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Bankdale's)
Ww	Pussy Willow (gray-leaved)
Wr	Red Willow
Ws	Sitka Willow (black-leaved)

UNKNOWN - OTHER

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

EXOTICS

	APPLE
Ua	Apple
	ASPEN, COTTONWOOD or POPLAR
Ae	Southern Cottonwood
	BIRCH
Ea	European Birch
Es	Silver Birch (swamp)
Ey	*Yellow Birch
	CHERRY
Vs	Sweet Cherry
	CYPRESS
Yp	Monterey Cedar
	FIR (Balsam)
Be	*Balsam Fir
Bp	Noble Fir
Bm	*Shasta Red Fir
Bs	*Silver Fir
	LARCH
Ld	*Dahurian Larch
Lk	*European Larch
	MAPLE
Me	Box Elder
Mr	*Norway Maple
Ms	*Sycamore Maple
	OAK
Qe	*English Oak
Qw	*White Oak
	OTHER EXOTICS
Cu	*Siberian Cedar
Ch	*Coast Cedar
Cc	*Coast Redwood
Ot	European Mountain Ash
Oa	Mountain Ash (southern)
Of	Common Pear
Og	Oregon Ash
Ow	*Russian Olive
Ol	*Hinghcock Hickory
Oj	Tree of Heaven
Ok	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Ps	*Sugar Pine
	SPRUCE
Sn	*Norway Spruce

Line 4

4a AGE CLASS

CODE	LIMITS (years)
0	0 - 20
1	21-40
2	41-60
3	61-80
4	81-100
5	101-120
6	121-140
7	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 as the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. Site index is derived from age and height, estimated SI is shown after, or replaces the SI.

4e ESTIMATED SITE INDEX
SI is estimated when suitable SI trees are not present, e.g. young stands (<30yrs). It is denoted by a slash which always follows the SI. Estimated SI codes are: Tree Inventory Type Group and SIBEC estimated source code.

Line 5 Vegetation records

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

NON-TREED SHRUB
- s SHRUB TALL - shrub with average shrub height > or = to two metres.
- sr SHRUB LOW - shrub with average shrub height < two metres.

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

NON-TREED BRYOID
- b BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverwork, and hornwork > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT
be	BEACH	la	LAKE
bl	BLOCKFIELD	lk	LAKE RED
cb	CLIFF/ROCK	lm	LAKE/MIND
cs	SUSPENDED/MEA	ls	POND or LAKE SEDIMENTS
cb	CUTBANK	mi	OPEN PIT MINE
dl	DELTAIC SOILS	mo	MORAINE
gl	GLACIER	mu	MUDFLAT SEDIMENT
		mv	MUD VOLCANO SPOILS
		ne	OCEAN / SEA
		ot	OTHER
		sn	SNOW COVER
		re	RESERVOIR
		rv	RIVER / STREAM
		sand	SAND, SAND
		tfat	TIDAL FLAT
		u	URBAN
		rm	RESERVOIR MARGIN
		rs	RIVER SURFACE
		rb	RIVER SEDIMENTS
		rd	ROAD SURFACE
		ta	TALUS
		tl	TAILINGS
		ur	URBAN

Note: Water categories (lk, ls, re, rv) not labeled over 90 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST-Species	NPBR	NON PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST -Species
G	GRASS/HERB	NPN	NON PRODUCTIVE NA/BLE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
M	MEADOW	R	ROCK
MUD	MUDFLAT	S	SWAMP

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

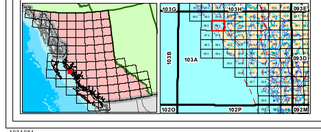
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either iMAP or ArcMap. The MapView example is of the red 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
CUTBLOCK
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels

103A084