103A067

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 - VRMS / Ownership
Base Map Source: TRIM / Terrain

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to display the vegetation resource inventory (VRI) for 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 (CVS)
- Research Installations

TRIM - Base Features:
- All Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Fields
- Other Lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Map Lines
- Water Lines
- Inland Bodies - 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 (< 1:200,000 fw) - (5 % hatch)
- Municipal boundary (< 1:200,000 fw) - (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 Structure 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 (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 (0.1-10.4m), crown closure class 1 (6-15%), SI 20m
5 Non-Vegetated Descriptor (Non-Forested Descriptor)
ex. a Herb/Shrub mix, a distinction between herbs and graminoids, shrubs less that 2m.
6 Disturbance history & year - ex: Logged in 1978

Line 1 - History Record Opening Number

xxxx - opening number valid for BCGS mapsheet 0000 - 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 "The B.C. Ministry of Forests Tree Code List" version 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Cy	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
Hw	Western Hemlock
Hm	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sweside Juniper
L	LARCH
Lpa	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plcx	Lodgepole x Jack Pine hybrid
Ply	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pli	Shore Pine (coast)
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Se	Engelmann Spruce
Sx	Engelmann Spruce
Ss	Sitka Spruce
Sxs	Spruce Hybrid
Sxx	Spruce Hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Sw	White Spruce
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Da	Sitka Alder
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Ato	Balsam Poplar
Atm	Trembling Aspen
Ay	Aspen hybrid
At	Trembling Aspen
E	BIRCH
Ep	Alaska Paper Birch
Epa	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ey	Yellow Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
Vp	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
W	WILLOW
Wp	Pacific Willow
Wg	Pacific Willow
Wa	Peachleaf Willow (Barclay's)
Wr	Peachleaf Willow (Rocky Mtn.)
Wa	Scouler's Willow
Wf	Sitka Willow (seaside)

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
Am	ASPEN, COTTONWOOD or POPLAR
Act	*Southern Cottonwood
	BIRCH
Ek	European Birch
Ek	Silver Birch (swan's)
Ep	Paper Birch
DH/BH	
Ys	Sweet Cherry
Yt	Tree Plum
Yp	*Pond Orchard Cedar
	FIR (Balsam)
Bb	Noble Fir
Bp	Noble Fir
Bm	*Shasta Red Fir
Bn	Noble Fir
	LARCH
Ld	*Dahurian Larch
Le	*European Larch
	MAPLE
Mr	Box Elder
Mh	*Norway Maple
Ms	*Sycamore Maple
OM	
Oe	*English Oak
Ow	*White Oak
	OTHER EXOTICS
Ot	*Tree of Heaven
Ob	*Giant Sequoia
Ou	*Coast Redwood
Oc	*Dawn Redwood
Ok	Siberian Elm (seychelle)
Of	Common Pear
Oa	*Mimosa
Ob	*White Ash
Or	*Shagbark Hickory
Ot	Tree of Heaven
Ok	Japanese Walnut
Ow	Elm
Ph	*Manitoba Rice
Pr	*Red Pine
Pn	*Austrian 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 - 13.4
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 meter referenced at 50 years
Breast Height Age. SI is based on the age and height of the leading species, dominant and co-dominant (above the main canopy) at the time of sampling. Site index is estimated from stem analysis where possible, or estimated from SIBEC.

4e ESTIMATED SITE INDEX
SI is estimated when suitable SI trees aren't present, e.g. young stands (regenerating after harvest) or stands which have been previously harvested. Refer to the data base and inventory Type Group and SI Estimated source code.

Line 5 Vegetation records

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

NON-TREED SHRUB
- s SHRUB - shrub with average shrub height > or = to two metres.
- si 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 > 80% of herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 80% 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, liverwarts, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED
- v Exposed Land
- vr Rock / Rubble
- w Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gr	GRAVEL PIT
be	BEACH	la	LAKE
bl	BLOCKFIELD	lb	LAVA BED
cb	CUTBANK	ls	LAVA FLOWS
cu	CUTBANK	ms	POND or LAKE SEDIMENTS
dl	DELTA SOILS	mi	OPEN PIT MINE
gl	GLACIER	mo	MORAINE
mu	MUDFLAT SEDIMENT	re	RESERVOIR MARGIN
mz	RUBBLY MINE SPOILS	rm	RAILWAY SURFACE
rv	OCEAN	rs	RIVER SEDIMENTS
sa	SALT FLAT	ru	ROAD SURFACE
sn	SNOW COVER	ta	TALUS
re	RESERVOIR	tl	TAILINGS
ri	RIVER or STREAM	ur	URBAN

Note: Water categories (la, ra, re, rv) not labelled over 50 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST (Species	NPBR	NON PRODUCTIVE BRUSH
BE	BOG or MUSKEG	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
GL	GRAVEL BAR	NTA	NO TYPING AVAILABLE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
M	MUSKEG	R	ROCK
MUD	MUDFLAT	S	SNOW
		SAND	SAND
		TIDE	TIDAL FLAT
		U	URBAN
		NC	NON COMMERCIAL
		NCBR	NON COMMERCIAL BRUSH
		NFL	NON FOREST LAND
		NSR	NOT SUFFICIENTLY RESTOCKED
		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.

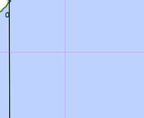
A	Animal Damage	L	Logging
B	Wildfire	M	Mine Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

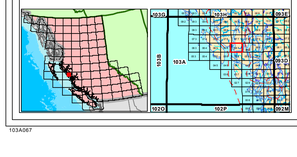
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of the med 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