093B002

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 - 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
- Sructure Opening in Vegetation
- Permanent Sample Plot (2YS)
- Research Installations

TRIM_Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airfields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNetBarriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- RV_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 (1:250,000 buy + 15 % hatch)
- Municipal boundary (1:250,000 buy - 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
007	1 Bivouclume symbol and Opening Number
BSXi	2 Polygon Number and multi-layer stand indicator (L)
Fdf1	3 Species Composition
5M 20	ex: the most important layer is described as Fd (Douglis Fir) and Hw (Western Hemlock).
Hw1	4 Age, Height, Crown Closure Class Code - separator Site Index (estimated S)
06/07	ex: 120 year old stand, 30 to 40 metres high (class 7, 31.5-40m), 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

007 - opening number valid for BCGS mapsheet 0036 - 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 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
H	HEMLOCK
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plx	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pa	Whitebark Pine
Pw	Western White Pine
Px	Whitebark Pine hybrid
S	SPRUCE
Sb	Black Spruce
Se	Engelmann 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	ALDER
Dr	Red Alder
Ep	APPLE
Up	Pacific Crab Apple
At	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Black Cottonwood
Ae	Trembling Aspen
Ax	Hybrid Poplars
B	BIRCH
Ba	Alaska Paper Birch
Bal	Alaska x Paper Birch hybrid
Bp	Paper Birch (white)
Bpl	Paper Birch hybrid
E	DOGWOOD
Ep	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Og	Garry Oak
R	WILLOW
Rh	Bebb's Willow
Rp	Pacific Willow
Rr	Red Willow (Bebb's)
Rw	Pussy Willow (gray-leaved)
Rs	Scouler's Willow
Rx	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

X	unknown
Xc	unknown conifer
Xh	unknown hardwood
Xl	unknown (broad-or-lat)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ua	APPLE ASPEN, COTTONWOOD or POPLAR
Ad	*Southern Cottonwood
Ew	BIRCH European Birch
Ekw	*Asian Birch (swamp)
Ey	*Yellow Birch
Ys	CHERRY *Sweet Cherry
Yp	CYPRESS *Port Orford Cedar
Fdc	FIR (Balsam) *Grand Fir
Bp	*Noble Fir
Bm	*Shasta Red Fir
Bl	*Subalpine Fir
Lk	LARCH *Dahurian Larch
Lyl	*Subalpine Larch
Mb	MAPLE Box Elder
Mn	*Norway Maple
Ms	*Sycamore Maple
Ob	OAK *English Oak
Qn	*Northern Pin Oak
Ob	OTHER EXOTICS *Incense Cedar
Qs	*Giant Sequoia
Qb	*European Beech
Qe	*European Mountain Ash
Qa	Siberian Elm (southern)
Qw	*Caucasian Elm
Qg	*Oregon Ash
Qk	*White Ash
Qm	*Black Walnut, Hickory
Qr	*Tree-of-Heaven
Qk	Japanese Walnut
Pm	PINE *Monterey Pine
Pr	*Red Pine
Pw	*Western White Pine
Sn	SPRUCE *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)
1	0 - 5
2	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 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 replaces the SI.

4e: ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aren=t present; e.g. young stands (<30yrs). If it is denoted by a dash which always precedes it. Associated fields in the data base are inventory Type SI=leat and SI Estimated source code.

Line 5 Vegetation records

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

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

NON-TREED HERB
- hf HERB - forb with no distinction between forbs and graminoids.
- hm HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- bl 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.
- bc BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- xl Exposed Land
- rs Rock / Rubble
- w Snow / Ice

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

ap	AIRPORT	gp	GRAVEL PIT
be	BEACH	l	LAKE
bl	BOULDERFIELD	li	LAKE/ICE
br	BEDROCK	oi	OTHER
bu	BURNED AREA	s	POND or LAKE SEDIMENTS
cb	CUTBANK	res	OPEN PIT MINE
cs	CONSOLIDATED SOILS	m	MORAINE
gl	GLACIER		
mu	MUDFLAT SEDIMENT	rm	RESERVOIR MARGIN
ms	MUNICIPAL WWE SPOILS	rr	RIVER/STREAM
ro	ROBIN	rs	RIVER SEDIMENTS
oi	OTHER	rd	ROAD SURFACE
sn	SNOW COVER	ta	TALUS
res	RESERVOIR	tl	TAILINGS
r	RIVER/STREAM	u	URBAN

Note: Water categories ra, sa, re, rd 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
B	BARREN	NPBS	NON PRODUCTIVE BRUSH
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
G	GRAVEL BAR	NTA	NOT TYPING AVAILABLE
GC	GRASS/CLAY	R	RIPARIAN
GF	GOFIELD	FF	GAYFIELD
M	MEADOW	R	ROCK
MUD	MUD FLAT	S	SWAMP
		SAND	SAND
		TIDE	TIDAL FLAT
		U	URBAN
		NC	NON COMMERCIAL
		NPBR	NON PRODUCTIVE BRUSH
		NP	NON PRODUCTIVE
		NSR	NOT SUFFICIENTLY RESTOCKED
		NTA	NOT 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.

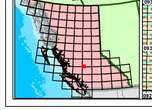
A	Animal Damage	L	Logging
B	Wildfire	M	Man Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
S	Silviculture		
U	Damage Unknown		
V	Problem Vegetation		

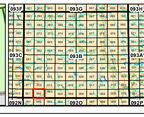
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of 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 Data" to turn on display values for -

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





093B011 093B012 093B013 093B001 093B002 093B003 092O091 092O092 092O093

48-68 48-69 48-40 48-29 48-30

126

GARIBOO DISTRICT
Cariboo-Chilcotin Natural Resource District

Overflow Labels

093B002