093B001

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 / Tantalis

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to display the vegetation resource inventory 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 2013)

Labels Projected To: January 1, 2014

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Structure Opening in Vegetation
- (RA/EK) - (VEG Phase 1 (1984+)
- VEG Phase 2 Samples
- (K, XC...) Phase 1 - Calls (pre VEG)
- (MAR) Phase 2 - Samples (pre VEG)
- (LSAM, PC...) Phase 1 & 2 (pre VEG)
- Permanent Sample Plot (CVS)
- Research Installations

MFLNRO OWNERSHIP Theme
Source : MFLNRO - F_OWN
OWNERSHIP & SCHEDULE
- 40-N Private - Crown Grants
- 50-N Federal Reserve
- 51-N National Parks
- 52-N Indian Reserves
- 53-N Military Reserves
- 54-N Dominion Government Block
- 56-N Ecological Reserves
- 61-N URSP < 100 ha
- 61-C URSP > 100 ha
- 62-C Forest Management Unit TSA
- 63-N Provincial Park Class A
- 67-N Provincial Park equivalent
- 68-N Reserves < 100 ha
- 69-C Reserves > 100 ha
- 70-C Timber Licence on TFL
- 70-N Timber Licence in TSA
- 72-A Private Schedule A in TFL
- 72-B Crown Schedule B in TFL
- 74-N Timber Allocated or Watershed
- 75-N Christmas Tree Permits
- 77-N Woodlot Licence Schedule B
- 79-N Community Forest
- 99-N Misc Leases < 100 ha
- 99-C Misc Leases > 100 ha

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airstrips
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Rail/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- R/V 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 (1:1,000,000 fill) - (1:1,000,000 No) - (1:1,000,000 fill / 10 % hatch)
- Municipal boundary (1:1,000,000 No) - 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 BC Tree Code List
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: stand is age class 2 (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
nnn - opening number used for BCGS mapsheet nnnn - 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 dataed 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
Hmh	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sweside Juniper
L	LARCH
La	Subalpine larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodge Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coastal)
Plj	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pwa	Whitebark Pine
Pxj	Hybrid Pine
Sb	SPRUCE Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Interior Spruce White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	DOGWOOD
Dr	Red Alder
U	APPLE
Ut	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
At	Balsam Poplar
Act	Black Cottonwood
Ax	Aspen hybrid
E	Trembling Aspen
AT	ARBUTUS
G	ALDER
B	BIRCH
Ea	Alaska Paper Birch
Ep	Alaska Paper Birch hybrid
Ew	Paper Birch (white)
Ew	Water Birch
Ek	Kenai Birch
C	Cascara
V	CHERRY
Vm	Bitter Cherry
Vc	Choke Cherry
Vp	Pin Cherry
Vv	Sweet Cherry
Dd	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Qe	ENGLISH OAK
Q	OAK
Qg	Garry Oak
W	WILLOW
Wi	Bebb's Willow
Wp	Pacific Willow
Wr	Peachleaf Willow (Bendyle'k)
Ww	Pussy Willow (grey-leaved)
Ws	Scouler's Willow
Wf	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xs	unknown shrub (4 or 6ft)
Z	other conifer
Zh	other hardwood

EXOTICS

Ue	MAPLE Argut
Ae	ASPEN, COTTONWOOD or POPLAR Northern Cottonwood
Ab	BIRCH European Birch
Ev	Silver Birch (swamp)
Ey	Yellow Birch Gray
Vs	Sweet Cherry
Y	CYPRESS Monterey Cedar
Yi	FIR (Balsam)
Bb	Balsam Fir
Bn	Noble Fir
Bm	Shasta Red Fir
Bc	White Fir Grand
Lt	Siberian Larch
Ls	LARCH Siberian Larch
Me	Box Elder
Mn	Norway Maple
Ms	Sycamore Maple
Qe	English Oak
Qw	White Oak
Ch	CHOKECHERRY
Ob	Oriental Cedar
Oc	Giant Sequoia
Oj	Japanese Cedar
Od	Siberian Elm (southern)
Oa	Grand Fir
Og	Oregon Ash
Ow	White Ash
O	Shagbark Hickory
Oh	Japanese Walnut
Ok	PINE
Pm	Monterey Pine
Pn	Austrian Pine
Py	Scots 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 - 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
Site Index is the tree height at reference age nearest 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
Estimated Site Index is used when no age or almost present, e.g. young stands in Hwcw. If a decimal is a stash which always precedes it. Associated fields in the data base are Inventory Type Group and SI Estimated source code.

Line 5 Vegetation records

VEGETATED NON-TREE CATEGORIES: (for V and I record4)

NON-TREED SHRUB
- w SHRUB TALL - shrub with average shrub height > or = to two 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
- bx 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.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES: (for V and I record4)

be	BEACH	gr	GRAVEL PIT
bl	BLOCKFIELD	la	LAVA BED
bo	BOULDERS	lk	LAKE/POND
bu	BURNED AREA	lo	POND w/ LAKE SEDIMENTS
cb	CUTBANK	mi	OPEN PIT MINE
ex	EXPOSED SOILS	mu	MORAINE
fl	FLOOD		

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

mp	MUD/FLAT SEDIMENT	rm	RESERVOIR MARGIN
ru	RUBBLY MINE SPOILS	rw	RAILWAY SURFACE
oc	OCEAN	rs	RIVER SEDIMENTS
rc	ROCK/CLIFF	ru	ROAD SURFACE
sn	SNOW COVER	ta	TALUS
re	RESERVOIR	ti	TAILINGS
rl	RIVER / STREAM	ur	URBAN

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I record4)

A	ALPINE	NPB	NON PRODUCTIVE
CB	BOG (NON-FOREST /Species	NPBR	NON PRODUCTIVE BRUSH
CL	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species
DU	DUNE (SAND)	NPL	NON PRODUCTIVE/ALE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
L	LAKE/POND	S	SWAMP
MUD	MUD FLAT	SWAMP	

BANG	BANG		
FLAT	FLAT		
U	Unknown		
NC	NON COMMERCIAL		
NCBR	NON COMMERCIAL BRUSH		
NP	NON PRODUCTIVE		
NSR	NOT SATISFACTORILY 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	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		

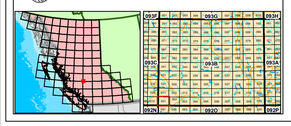
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

Example Opening History Details

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

The Ministry of Forests, Mines and Lands web application http://www.for.gov.bc.ca/hts/ has more 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
SILVICULTURE BLOCK
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH



093C020
093B011
093B012
093G010
093B001
093B002
092O092
48-69
48-80
48-40
48-41
126 62-C
131
Labels Projected To: January 1, 2013
Cariboo-Chilcotin Natural Resource District
3 COAST DISTRICT
CARIBOO DISTRICT
GOLDEN DISTRICT
EP 22 04
EP 22 04
EP 22 04
EP 22 04
WH-4009-001
WH-4009-001

Overflow Labels

093B001