093B024

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
- Silviculture Opening in Vegetation
- Permanent Sample Plot (VRI)
- Research Installations

TRIM Base Features:
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf ields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolin-Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- NVI 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 at 1:250,000 (no. < 15 % hatch)
- Municipal boundary at 1:1,000,000 hat - 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. stand is age class 2 (21-40 yrs), height class 1 (1-10.4m), crown closure class 1 (5-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
6 Non-Vegetated Descriptor, Non-Forest descriptors and gramnoids, shrubs less that 2m.
7 Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Opening Number :

OGR - opening number valid for BCGS mapsheet

XXXR - 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	YEW
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	BALSAM
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hwm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mt. Juniper
Js	Savin Juniper
L	LARCH
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Ply	Lodgepole x Jack Pine hybrid
Pli	Lodgepole Pine (Inland)
Pw	Shore Pine (coast)
Pw	Western White Pine
Py	Ponderosa Pine (yellow)
PW	WHITEPINE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Hybrid White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	TAMARACK
Te	Western Yew

NATIVE HARDWOODS

A	ALDER
Ad	Red Alder
E	APPLE
Ep	Pacific Crab Apple
D	BROAD LEAF (COTTONWOOD or POPLAR)
Act	Poplar
Ac	Black Cottonwood
Act	Black Cottonwood
Ah	hybrid Poplars
Ax	Trembling Aspen
R	ARBUTUS
Rm	Arbutus
E	BIRCH
Ea	Alaska Paper Birch
Ep	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ew	Water Birch
K	CASCARA
G	CHERRY
Y	Bitter Cherry
Yc	Choke Cherry
Yp	Pin Cherry
D	DOGWOOD
Dw	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Big Leaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
Qx	Oak hybrid
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wpg	Pacific Willow (Barclay's)
Wy	Pussy Willow (gray-leaved)
Wyk	Scouler's Willow
Wy	Pussy Willow (silver-leaved)

UNKNOWN - OTHER

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

EXOTICS

Ux	APPLE spp.
Ae	ASPEN, COTTONWOOD or POPLAR - Southern Cottonwood
Be	BIRCH - European Birch
Eo	European Birch (Downy)
Ep	Weeping Birch
Cp	CHERRY - Purple Plum
Ys	CYPRESS - Hinoki Cyprus
Yp	Port Orford Cedar
Bp	Balkan Fir
Bg	Noble Fir
Bn	Nikko Fir
Bc	White Fir
L	LARCH - European Larch
Ld	Siberian Larch
Mb	MAPLE - Box Elder
Mh	Norway Maple
Mr	Sycamore Maple
Oe	OAK - English Oak
Or	Red Oak
Ox	OTHER EXOTICS - Incense Cedar
Ob	Giant Sequoia
Oc	Giant Redwood
Ow	European Mountain Ash
Ot	Caucasian (Jaushian)
Ok	Siberian Elm (laucheri)
Ol	Common Pear
Og	Oregon Ash
Ow	White Ash
Op	Shadbush Hickory
Oy	Tree-of-Heaven
Ok	Japanese Walnut
Pn	PINE - Monterey Pine
Pr	Red Pine
Py	Scots 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)
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 metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. If the SI is estimated from both age and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees cannot present, e.g. young stands (<30yrs). SI is denoted by a stash which always follows the SI (e.g. estimated SI of 20 = 20/). SI values are Inventory Type Group and SI Estimated source code.

Line 5 Vegetation records

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

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

NON-TREES HERB
- he HERB - herb with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOID - herb with graminoids > 50% of the herb cover.

NON-TREES BRYOID
- by 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
- w Exposed Land
- wr Rock / Rubble
- ww Snow / Ice

NON VEGETATED CATEGORIES (for V and I records):

ac	ALPINE CLASS	mf	MUDFLAT SEDIMENT	rr	RESERVOIR MARGIN
rc	BEACH	mp	RUBBLY MINE SPOIL	rs	RAILWAY SURFACE
sl	BLOCKFIELD	w	LAKE	rs	RIVER SEDIMENTS
bl	BOULDERFIELD	b	LAVA BED	s	SNOWFIELD
su	BURNED AREA	r	POND	t	TALUS
cb	CUTBANK	rs	POND on SEDIMENTS	tp	TALUS/GULLIES
ds	DEBRIS SLIDES	rm	OPEN PIT MINE	tr	TALUS/ROCK
gl	GLACIER	rm	MORNUS		

Note: Water categories (w, rs, rr, s) not attached to VRI polygon coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F record):

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
CL	CLEARING	NPF	NON PRODUCTIVE FOREST	U	URBAN
CL	CLAY BANK	NPFT	NON PRODUCTIVE FOREST Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
I	ICEFIELD	P	PRODUCTIVE	NPBR	NON PRODUCTIVE BRUSH
ICE	ICEFIELD	PF	HERB	NP	NON PRODUCTIVE
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	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.

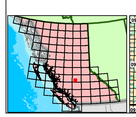
A	Animal Damage	L	Logging
B	Wildfire	M	Mide Damage
C	Insects and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Inventory		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

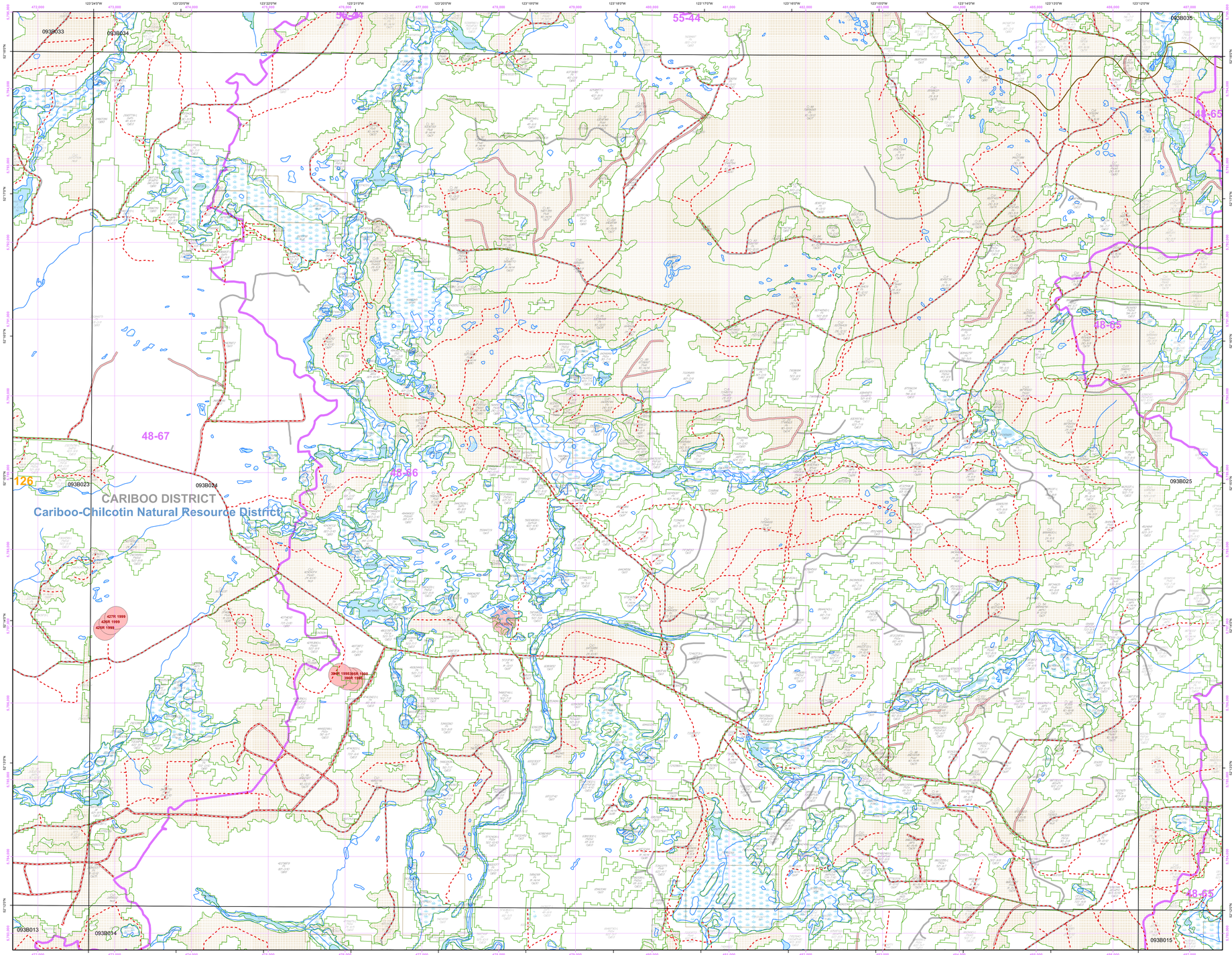
Example Opening History Details

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