093B031

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093B031

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 (cutblock, administrative boundaries and the Ownership colour theme are for reference purposes only. Digitally revised to June 2014).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

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

Administrative Boundaries:
- BC Provincial Boundary
- NR(FLNRO 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:

OP1 / 2 / 3 / 4 / 5 / 6 / 7 / 8

OP1 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP2 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP3 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP4 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP5 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP6 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP7 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

OP8 - 01 / 02 / 03 / 04 / 05 / 06 / 07 / 08

LINE DESCRIPTION
1. Silviculture symbol and Opening Number
2. Polygon Number and multi-layer stand indicator (L)
3. Species Composition
   ex: Fd is the dominant layer is described as Fd (Douglis Fir) and He (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

OP - opening number valid for BCGS mapsheet OP# - 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

Tree Species Composition Species are labelled 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

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
H	HEMLOCK
Hw	Western Hemlock
Hm	Mountain Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn Juniper
Js	Seaside Juniper
L	LARCH
Lw	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Whitebark Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pw	Whitebark Pine
S	SPRUCE
Se	Black Spruce
Sw	Engelmann Spruce
Sxe	Spruce Hybrid
Sw	White Spruce
Sx	Spruce Hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x Unknown hybrid
Y	YEW
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Abb	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
Ae	Trembling Aspen
A	ASPEN
Ap	Alibatus
E	BIRCH
Ew	Paper Birch
Ekw	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
K	CASCARA
Kc	Cascara
V	CHERRY
Vc	Black 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
Gg	Garry Oak
Or	Oregon Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wr	Red Willow (Barclay's)
Ww	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wf	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

Ue	APPLE
Ux	ASPEN, COTTONWOOD or POPLAR
Ad	*Southern Cottonwood
Ae	BIRCH
Ea	European Birch
Es	Silver Birch (swamp)
Ep	*Asian Birch
Vs	CHERRY
	*Sweet Cherry
Vy	*Pin Cherry
Yp	*Port Orford Cedar
Ld	FIR (Balsam)
Ld	*Subalpine Fir
Bn	Noble Fir
Bm	*Shasta Red Fir
Bg	*Grand Fir
Lt	LARCH
Lt	*Dahurian Larch
Lk	*Siberian Larch
Me	Box Elder
Mr	*Norway Maple
Ms	*Sycamore Maple
Oq	OAK
Qe	*English Oak
Qw	*White Oak
Q	OTHER EXOTICS
Qe	*Evergreen Oak
Qc	*Giant Sequoia
Qp	*Pedunculate Oak
Qr	European Mountain Ash
Qe	Siberian Elm (laciniata)
Qr	*Common Ash
Q	Oregon Ash
Qf	*White Ash
Qj	*Douglas's Hickory
Qi	Tree-of-heaven
Qp	*Japanese Walnut
PW	PINE
Pm	*Monterey Pine
Pn	*Austrian Pine
Py	*Bugle 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

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 layer. SI is estimated from VRI data (projected age and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aenot present, e.g. young stands (<30yrs). It is denoted by a slash which always follows the SI. The estimate is based on the data in the Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

VEGETATED NON-TREE CATEGORIES (for V and I records[4])

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

NON-TREED HERB
- h 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
- by BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSSES - bryoid with mosses > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED
- w Exposed Land
- wr Rock Outcrop
- s Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records[4])

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
be	BEACH	la	LAKE	mz	RUBBLY MINE SPOILS
bo	BOULDERFIELD	ld	LOG DECK	ri	RIVER
bs	BEDROCK	li	LANDING	st	OTHER
bu	BURNED AREA	lp	POND or LAKE SEDIMENTS	pn	SNOW COVER
cl	CLEARING	mi	OPEN MINE	pp	PERMANENT
ex	EXPOSED SOILS	ms	SCHRAPE	r	RIVER / STREAM
gl	GLACIER				

Note: Water categories (la, ss, re, rl) not labelled over 90 percent coverage.

rm	RESERVOIR MARGIN		
rn	RAILWAY SURFACE		
rp	PAVED ROADSETS		
ro	ROAD SURFACE		
rk	TALUS		
rz	GRAVEL		
u	URBAN		

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F records[4])

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST (Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
F	FOREST	NPBR	NON PRODUCTIVE BRUSH / Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
M	MEADOW	R	ROCKS	NCR	NON COMMERCIAL
MF	MEADOW	S	MOOR	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	NTA	NO 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.

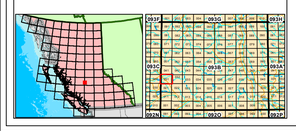
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Insects and Seed Insects	N	Non-Ecological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Inserts		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

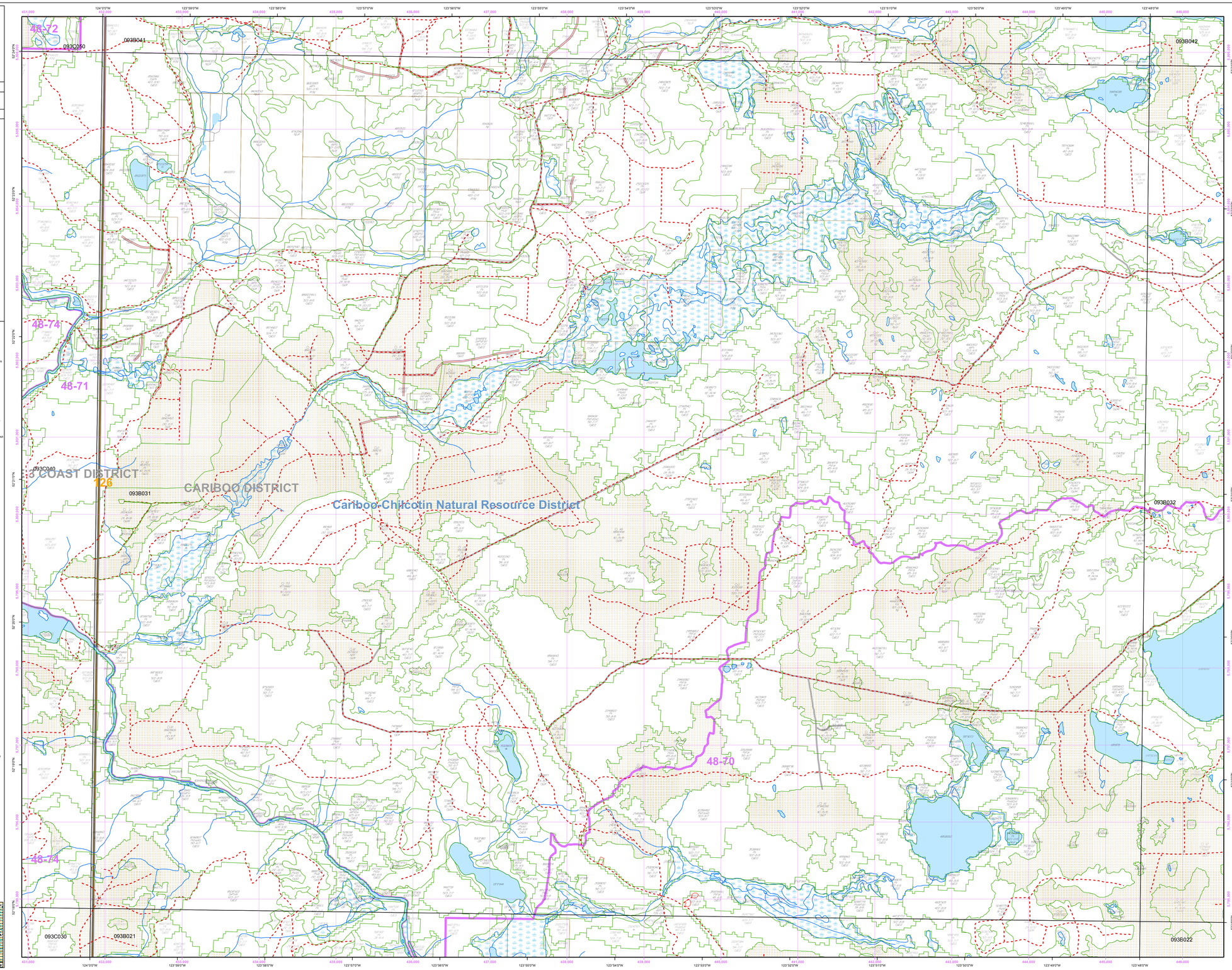
Example Opening History Details

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 Map" to turn on display values for:

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





Overflow Labels

093B031