Vegetation Map
092B081

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - MVMS / 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 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 revised June 2014)

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Future+:
- Forest Vegetation Polygons
- Structure Opening In Vegetation
- Permanent Samples Plot (VRI)
- Research Installations

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

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- MoF 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 flat / 10% hatch)
- Municipal boundary (< 1:250,000 flat / 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. Opening Number 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 - separators: Site Index / estimated SI
ex. age class 4 (61-80), height class 3 (10.5 - 19.4 m), 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

OGN - opening number valid for BCGS mapsheet
ODW - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer:

VRI/MS 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	YEW
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Pw	Pacific Yew
Bb	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hwm	Western Hemlock Hybrid
Hm	Mountain Hemlock
Hmm	Mountain x Western Hemlock hybrid
J	Rocky Mtn. Juniper
Js	Sweede Juniper
Jr	Juniper
Ja	Alpine Larch
Lt	Tamarack
L	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coast)
Pli	Lodgepole Pine (interior) hybrid
Pp	Ponderosa Pine (yellow)
Ppi	Shore Pine (coast)
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Se	Engelmann Spruce
Sw	Sitka Spruce
Sx	White Spruce
Sxl	Spruce Hybrid
Sxw	Equelmann x White
Sxs	Sitka x White
Sxs	Sitka x Lutz hybrid
Y	YEW
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Dl	Sitka Alder
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPULAR
At	Aspen
Abl	Balsam Poplar
Act	Black Cottonwood
Ap	Trembling Aspen
Ag	Willow
E	BIRCH
Ep	Alaska Paper Birch
Epk	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ek	Water Birch
K	CASCARA
Kc	Cascara
Ue	ELM
Uw	Siberian Elm
Vc	Choke Cherry
Vp	Pin Cherry
G	OAK/GARRY OAK
Gg	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wp	Pacific Willow
Wp	Pacific Willow
Wx	Feeshleaf Willow (Barclay's)
Wy	Sitka Willow (Sitka Seweed)
Wr	Scouler's Willow
Wh	Tidal Willow (Sea-kewed)

NATIVE SHRUB

Sh	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xx	OTHER (see notes list)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ae	APPLE
Ua	Apple
Act	BLACK COTTONWOOD or POPLAR
Ae	*Southern Cottonwood
	BIRCH
Ek	*European Birch
Ek	Silver Birch (swamp)
Ej	*Yellow Birch
	CHERRY
Vs	Sweet Cherry
	CYPRESS
Yo	*Ovoid Gilded Cetar
	FIR (Balsam)
Bp	*Noble Fir
Bn	Nobel Fir
Bm	*Shasta Red Fir
Bm	Red Fir
	LARCH
Lk	*Dahurian Larch
Lsi	*Siberian Larch
	MAPLE
Mr	Box Elder
Mp	*Norway Maple
Ms	*Sycamore Maple
	OAK
Qw	*English Oak
Qm	*White Oak
	OTHER EXOTICS
Dw	*Russian Olive
Ow	*Giant Sequoia
Ov	*Coast Redwood
Ob	*Monterey Cypress Ash
Ow	Eastern Wh (southern)
Of	Common Pear
Ow	*Black Ash
Ow	*White Ash
O	*Shagbark Hickory
Ow	*Black Walnut
Ow	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pp	*Red Pine
Ps	*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 - 25.4
4	26.5 - 37.4
5	37.5 - 44.4
6	45.5 - 53.4
7	55.5 - 64.4
8	65.5 +

4c. CROWN CLOSURE CLASS

CODE	LIMITS (percentage)
1	0 - 5
2	6 - 15
3	16 - 25
4	26 - 35
5	36 - 45
6	46 - 55
7	56 - 65
8	66 - 75
9	76 - 100

4d SITE INDEX
Site Index is 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 measurements, an estimate may be made.

4e. ESTIMATED SITE INDEX +
SI is estimated when suitable SI trees are not present, e.g. young stands (<30yrs). It is denoted by a stem which always precedes it. Associated fields in the data base are Inventory Type Group and SI reference source code.

Line 5 - Vegetation records

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

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

NON-TREED HERB
- he HERB - herb w/o distinction between forbs and graminoids.
- H HERB - FORBS - herb with forb > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 50% 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, 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 records)

ae	AIRPORT	gr	GRAVEL PIT
b	BEACH	l	LAKE
bl	BLOCKFIELD	la	LAHARES
br	BEDROCK	t	LANDSLIDE
c	CULTURAL AREA	ls	LANDSLIDE SEDIMENTS
cb	CUTBANK	m	OPEN PIT MINE
ep	EXPOSED SOILS	w	WORKINGS
g	GLACIER		

Note: Water categories (ie, ov, w, r) not labelled over 500 hectares in size.

rm	MUDFLAT SEDIMENT	rr	RESERVOIR MARGIN
rb	RUBBLE, MINE SPOILS	rs	RAILWAY SURFACE
ro	OCEAN	rw	WATER SEDIMENTS
rp	PEAT	rz	SALINE SURFACE
rn	SNOW COVER	ru	TAILINGS
rc	PERMANENT ICE	rv	VALLEYS
rl	RIVER/STREAM		

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

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST (Species	NPB	NON PRODUCTIVE BRUSH
B	BARREN	NPBS	NON PRODUCTIVE SHRUB
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
DU	DRAINED SINK	NTA	NO TYPING AVAILABLE
GL	GLACIER	OR	OPEN RANGE
ICE	ICEFIELD	R	ROCK
L	LAKE	S	SWAMP
M	MUSKEG		

SAND	SAND		
TIDE	TIDAL FLAT		
U	URBAN		
NC	NON COMMERCIAL		
NCB	NON COMMERCIAL BRUSH		
NP	NON PRODUCTIVE		
NPA	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.

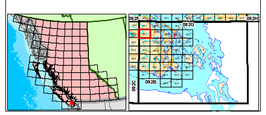
A	Animal Damage	L	Logging
B	Wildfire	M	Mine Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	O	Cone and Seedling Fungal Pathogens
E	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

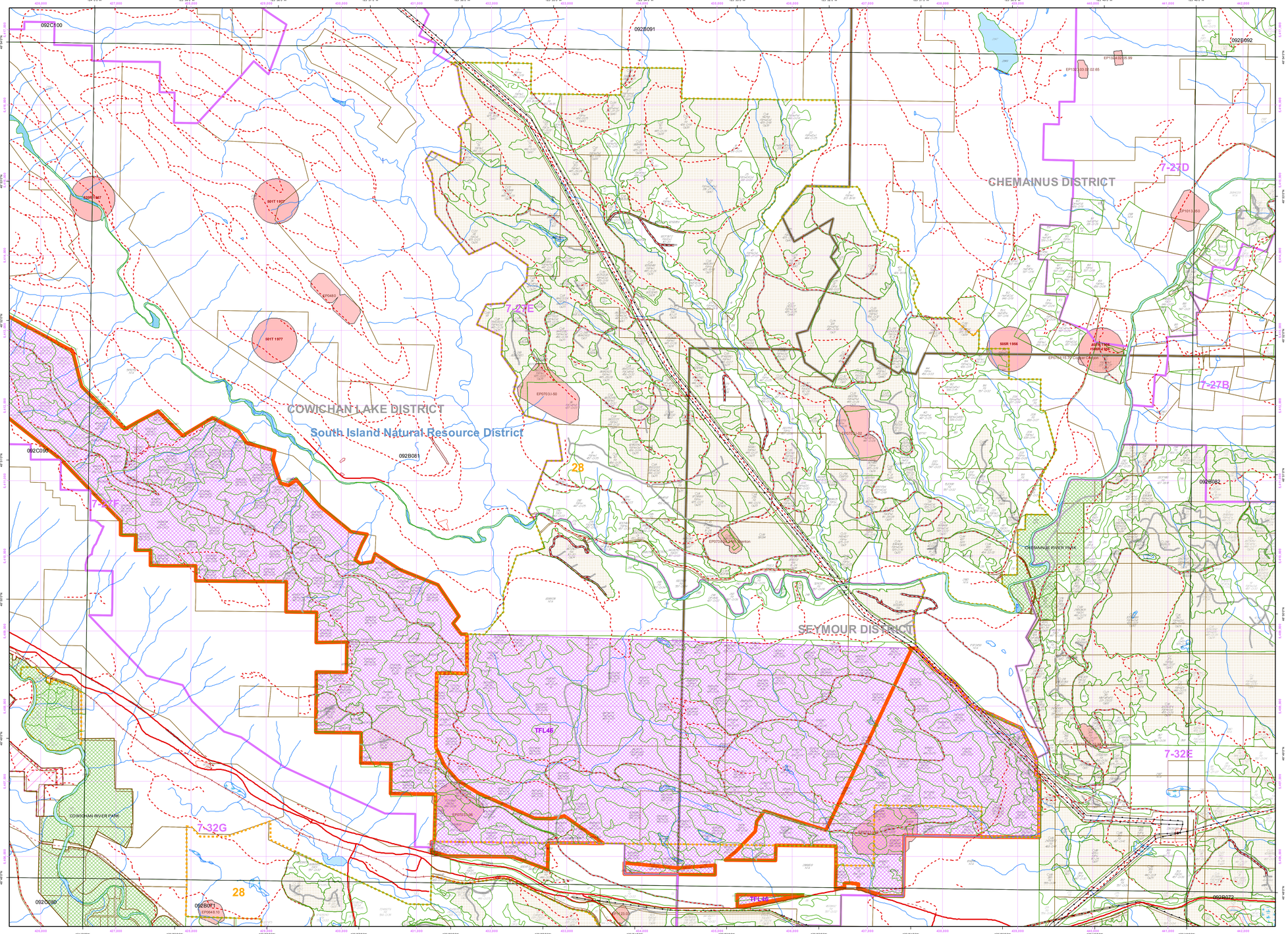
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either MVF or ArcMap. The MapView example is of interest 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 ID
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
WILDLIFE TREE RETENTION
WILDLIFE TREE PATCH






092C100
092B091
092B092
092C090
092B081
092B082
092C080
092B071
092B072
CHEMAINUS DISTRICT
COWICHAN LAKE DISTRICT
South Island Natural Resource District
SEYMOUR DISTRICT
7-27D
7-27E
7-27B
7-32F
7-32G
7-32E
28
TFL48
COWICHAN RIVER PARK
CHEMAINUS RIVER PARK
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