093L070

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093L070

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 Vegetation Resource Inventory and Land Status, Administrative boundaries and the Ownership colour theme are sufficient but 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
- Structure Opening in Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Level
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf Fairlies
- Other Area
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydr/Anr/Barriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO 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:

Cc 60 Fd Fdhw 30 Ac 10

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 (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 Oping Number

cccc - opening number valid for BCGS mapsheet *nnnn* - 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 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 dated 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
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hm	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Seaside Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (Contorta) Hybrid
Pp	Ponderosa Pine (yellow)
Ps	Shore Pine (coast)
Pw	Western White Pine
Py	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	Hybrid Spruce
Sx	White Spruce
Sxl	Spruce Hybrid
Sxw	Spruce x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	MAPLE
Up	Pacific Crab-Apple
A	POPLAR, COTTONWOOD or POPLAR
At	Poplar
Ab	Balsam Poplar
Ac	Black Cottonwood
Ax	Hybrid Poplars
Al	Trembling Aspen
R	Arbutus
Rm	Arbutus
E	BIRCH
Ep	Alaska Paper Birch
Epg	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
Y	CHERRY
Yb	Bitter Cherry
Yv	Choke Cherry
V	DOGWOOD
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Vv	Vine Maple
O	OAK
Gb	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wpg	Pacific Willow (Barrette's)
Wf	Pussy Willow (grey-leaved)
Ws	Scouler's Willow
Wsx	Sitka Willow (lake-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xl	unknown (leaf off or fall)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ue	APPLE
	ASPEN, COTTONWOOD or POPLAR
Ad	*Southern Cottonwood
Ae	*Aspen
Ea	European Birch
Ek	Silver Birch (swamp)
Ep	*European Birch
Yy	CHERRY
Ys	Sweet Cherry
Yu	*Plum
Yp	*Pincherry
Ue	FIR (Balsam)
Bb	*Noble Fir
Bp	*Grand Fir
Bm	*Shasta Red Fir
Bv	*White Fir
	LARCH
Lk	*Siberian Larch
Ls	*Siberian Larch
	MAPLE
Mr	Box Elder
Mk	*Norway Maple
Ms	*Sycamore Maple
	OAK
Qg	*English Oak
Qs	*White Oak
	OTHER EXOTICS
Oa	*Incense Cedar
Oc	*Giant Sequoia
Oe	*Monterey Cypress
Of	European Mountain Ash
Ow	Siberian Elm (southern)
Oh	*Common Ash
Og	Oregon Ash
Ok	*White Ash
Ot	*Black Walnut, Hickory
Oj	*Tree-of-Heaven
Ok	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Pa	*Austrian 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 height of 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, estimate SI to known after, or replace the SI.

4e: ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aremnt present, e.g. young stands (<50yrs). It is denoted by a slash which also 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 (5v' V and I records)

NON-TREED SHRUB
- sc SHRUB - 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 with no distinction between forbs and graminoids.
- hmx HERB - FORBS - herb with forbs > 50% of the herb cover.
- hmy HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- by BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornwerts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (5v' V and I records)

ae	BEACH	gr	GRAVEL PIT
bl	BLOCKFIELD	lk	LAVA BED
bo	BOULDERS	lg	LANDING
cb	BOREAS CRUST	ls	POND or LAKE SEDIMENTS
cb	CUTBANK	mi	MINE
es	EXPOSED SOILS	mn	MORAINE
gc	GLACIER	mu	MUDFLAT SEDIMENT
mp	RUBBLY MINE SPOILS	oc	OCEAN
ol	OTHER	rc	ROCK
sn	SNOW-COVER	rr	RESERVOIR
st	STREAM	ri	RIVER / STREAM
		rm	RESERVOIR MARGIN
		rw	RAILWAY SURFACE
		rv	RIVER SEDIMENTS
		sa	SALT FLAT
		tl	TALUS
		ta	TAILINGS
		u	URBAN

Note: Water categories (lk, oc, rc, ri) not labelled over 50 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for 7 records)

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST /Spaces	NPBR	NON PRODUCTIVE BRUSH
CL	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Spaces
GL	GLACIAL ICE	NV	NOT VEGETATION AVAILABLE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
MU	MUDFLAT	R	ROCKS
MUD	MUDFLAT	S	SWAMP
		SAND	SAND
		SF	SALT FLAT
		URBAN	URBAN
		NCC	NON COMMERCIAL
		NCBR	NON COMMERCIAL BRUSH
		NP	NON PRODUCTIVE
		NPRE	NON PRODUCTIVE RESTOCKED
		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.

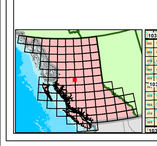
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Core and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

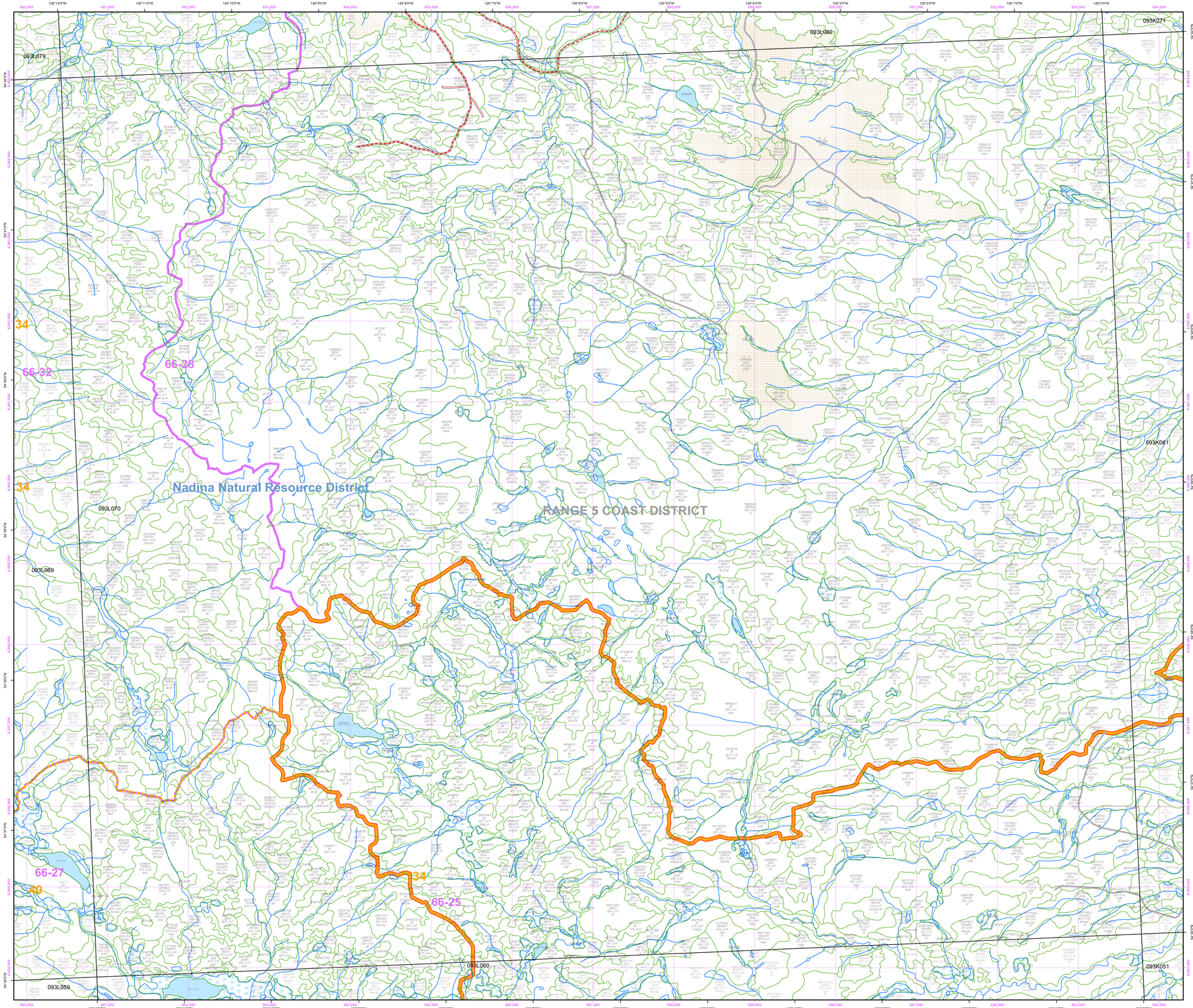
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of 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
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels

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