093M049

Vegetation Map
093M049

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 (CVS)
- Research Installations

TRIM. Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroAreaBarriers - 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:

```
Cx1   1
E1Y   2
Fd/Hw 3
Cm 4  4
Re2   5
Cx79  6
```

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 (Dougls 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 Description)
   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 Opeing Number

Cx1 - opening number valid for BCGS mapsheet nnn - 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 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

Cw	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Coastal Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Ba	BALSAM
Ba	Amabalis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Limber Pine
Plc	Contorta Pine
Pli	Lodgepole Pine (interior)
Plyj	Lodgepole x Jack Pine-hybrid
Py	Ponderosa Pine (yellow)
Pw	Shore Pine (coast)
Pwa	Whitebark Pine
Pw	Whitepark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sep	Purple Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Hybrid Spruce White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
E	Red Alder
U	APPLE
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Ab	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
Ax	hybrid Poplars
Ay	Alibutus
E	BIRCH
Ep	Alaska x Paper Birch
Exp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
C	CHERRY
V	CHERRY
Vb	Bitter Cherry
Vv	Choke Cherry
Up	Pin Cherry
Vs	Sweet Cherry
Py	Prunus sp.
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
G	OAK
Gg	Garry Oak
W	WILLOW
Wb	Black Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Barclay's)
Ww	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wt	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

Uy	MYRTLE
Ue	ASPEN, COTTONWOOD or POPLAR
Ed	*Southern Cottonwood
Ee	BIRCH
Ey	*European Birch
Ey	Silver Birch (exempt)
Ey	*Yellow Birch
Ve	CHERRY
Vs	Sweet Cherry
Vy	Prunus sp.
Yp	*Port Orford Cedar
Bb	FIR (Balsam)
Bp	*Noble Fir
Bm	*Subalpine Fir
Bc	*White Fir
Lt	LARCH
Ld	*European Larch
Lj	*Siberian Larch
Me	MAPLE
Mr	Box Elder
Mh	*Norway Maple
Mp	*Sycamore Maple
Oa	OAK
Qe	*English Oak
Qw	*White Oak
Pn	OTHER EXOTICS
Ot	*Incense Cedar
Ow	*Giant Sequoia
Ou	*Coast Redwood
Ofl	*Green/Red Ash
Ofw	*Siberian Elm (elm/hem)
Of	Common Pear
Og	Oregon Ash
Oh	*White Ash
Ow	*Black Walnut, Hickory
Oj	*Tree-of-Heaven
Ok	Japanese Walnut
Oo	*Alder
Pm	*Monterey Pine
Pp	*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 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

SI is estimated when suitable SI trees annot present, e.g. young stands (<40yrs). It is denoted by a slash 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 records)*

NON-TREED SHRUB
- sl 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 with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

NON-TREED BRYOID
- by BRYOIDS - 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
- el Exposed Land
- w Water/Ice
- si Snow / Ice

NON VEGETATED CATEGORIES *(for V and I records)*

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
b	BEACH	ic	ICE	mz	MUDFLAT TIME SPOILS
br	BLOCKFIELD	la	LAVA BED	ns	OCEAN
br	BEDROCK	ll	LANDING	ot	OTHER
bu	BURNED AREA	pd	POND or LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	mi	OPEN PIT MINE	re	RESERVOIR
ds	DISTURBED SOILS	mk	MORAINE	r	RIVER / STREAM
gl	GLACIER		Note - Water categories (ns, re, r) not labelled over 90 percent coverage.		

rm	RESERVOIR MARGIN	rr	RIVER SEDIMENTS
rs	RIVER SEDIMENTS	rz	ROAD SURFACE
rz	ROAD SURFACE	ta	TALUS
ta	TALUS	tz	TAILINGS
tz	TAILINGS	ur	URBAN
ur	URBAN		

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

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
C	CULTIVATED FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	SF	SAND FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRASS / MEADOW	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	OT	OTHER	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.

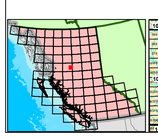
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

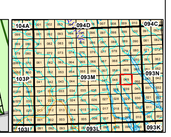
Example Opening History Details

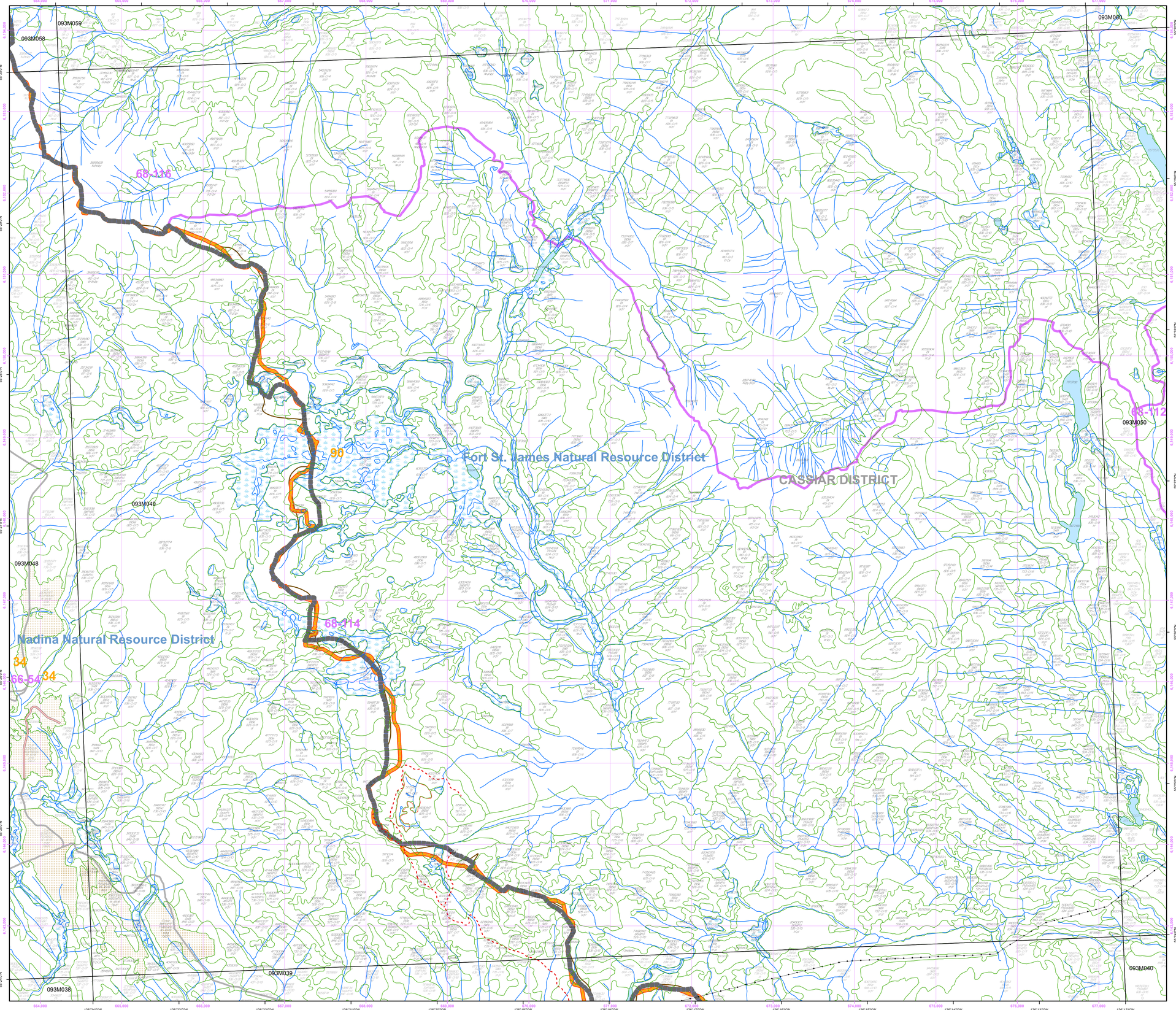
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application RESULTS is available to view this type of detailed information. Select the SILVICULTURE tab then click on 'Display' Opertive Map' to turn on display values for :

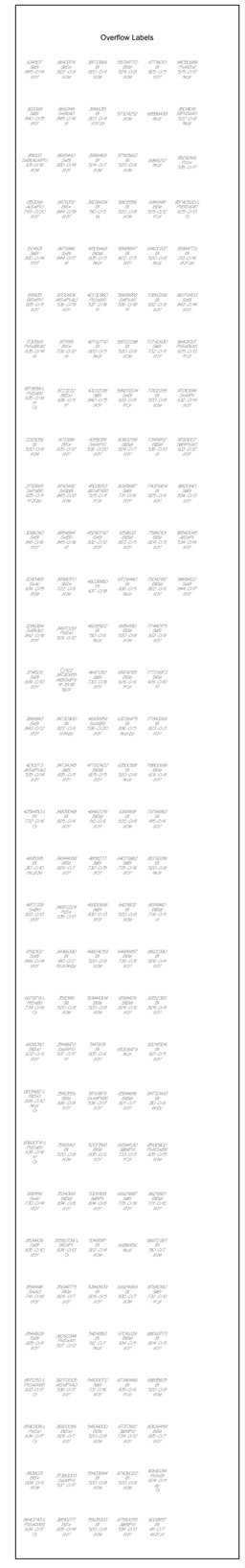
OPENING
OPENING LABELS
OPENING - P&I / PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH







Overflow Labels



093M049