0941097

Vegetation Map
0941097

BRITISH COLUMBIA
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
- Sivviculture Opening in Vegetation
- Permanent Sample Plot (VRI)
- 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
- HydroNetBarriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- RAV 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:

```
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
 5    Vegetated Density Class (1 = Cl vgs, height class 1 (0.5-10.4m), 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

OXX - opening number valid for BCGS mapsheet. XXXX - 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. L 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	CYPRESS
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastle Douglas Fir
Fdi	Interior Douglas Fir
E	ENGELMANN
Ep	Engelmann
Bg	Grand Fir
B	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hydrid
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)
Plj	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pyj	Whitebark Pine
Py	Yellow Pine
Sb	Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	White Spruce
Sxl	Spruce hybrid
Sxe	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Du	Sitka Alder
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Ato	Balsam Poplar
Ad	Black Cottonwood
Ax	hybrid Poplars
Af	Trembling Aspen
Ap	Trembling Aspen
E	Arbutus
Ep	Alaska Paper Birch
Epa	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
Y	CHERRY
Yv	Choke Cherry
Yd	Douglas Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wr	Red Willow (Blackjy's)
Ww	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wi	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

Ua	APPLE
	Apple
Aa	ASPEN, COTTONWOOD or POPLAR
Aal	*Southern Cottonwood
	BIRCH
Ea	*European Birch
Es	Silver Birch (exempt)
Ey	*Yellow Birch
	CHERRY
Vs	Sweet Cherry
	FIR (Balsam)
Bb	*Balsam Fir
Bg	Grand Fir
Bm	*Whalla Red Fir
Bc	*White Fir
	LARCH
Ld	*Dahurian Larch
Le	*Siberian Larch
	MAPLE
Me	Box Elder
Mo	*Norway Maple
Ms	*Sycamore Maple
	OAK
Qe	*English Oak
Qm	*White Oak
	OTHER EXOTICS
Ca	*Incense Cedar
Ob	*Giant Sequoia
Oc	*Golden Chain
Oz	European Mountain Ash
Oe	Siberian Elm (southern)
Ot	*Tree-of-Heaven
Of	Oregon Ash
Ow	*White Ash
Ol	*Shagbark Hickory
Oi	Tree-of-Heaven
Ok	*Japanese Walnut
	PINE
Pm	*Monterey Pine
Pp	*Red Pine
Ps	*Sugar 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 leading species. When an accurate SI cannot be obtained from age and height established by timber cruise, or replaces the SI.

4e ESTIMATED SITE INDEX

SI is estimated when suitable SI trees arenot present, e.g. young stands. Usually the SI is determined by a stem which always grows in the area. Estimated SI 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)

sp	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 graminoids > 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 CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
be	BEACH	la	LAKE	mp	RUBBLY MINE SPOILS
bi	BEDFIELD	lb	LAKE BED	o	OTHER
bl	BEDROCK	li	LANDING	ot	OTHER
bu	BURNED AREA	ls	POND or LAKE SEDIMENTS	ps	SNOW COVER
cs	CUTBANK	mi	OPEN PIT MINE	ri	RIVER/STREAM
ds	DISTURBED SOILS	mn	MORAINE	rr	RIVER/ STREAM
gl	GLACIER				

Note: Water categories (la, ar, ri, rs) not labelled over 50 percent coverage.

rm	RESERVOIR MARGIN
rr	RAILWAY SURFACE
rs	ROAD SURFACES
ro	ROUGH SURFACE
tv	TALUS
va	VOLCANIC
w	URBAN

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

AF	ALPINE FOREST (Species	NPBC	NON PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
F	FOREST	NPF	NON PRODUCTIVE FOREST (Species
G	GRASSLAND	NT	NO TYPING AVAILABLE
GR	GRAVEL PIT	OR	OPEN ROAD
ICE	ICEFIELD	P	HAYFIELD
M	MEADOW	R	ROCK
MUD	MUDFLAT	S	SWAMP

BAND	SAND
TIDE	TIDAL FLAT
U	URBAN
NC	NON COMMERCIAL
NCBR	NON COMMERCIAL BRUSH
NP	NON PRODUCTIVE
NSR	NOT SUFFICIENTLY 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	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				

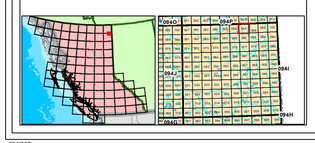
Example Opening History Details

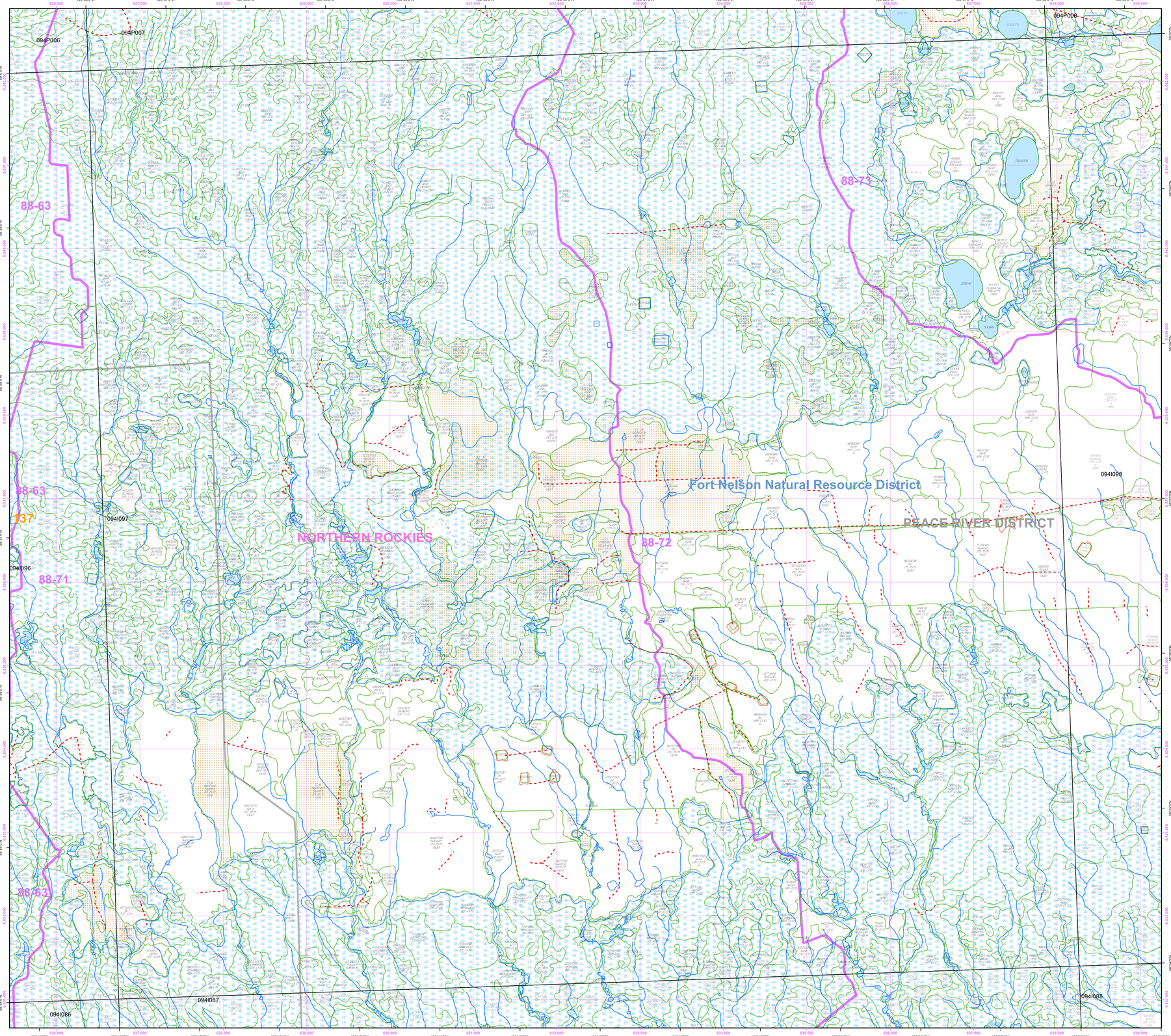
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application 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 -

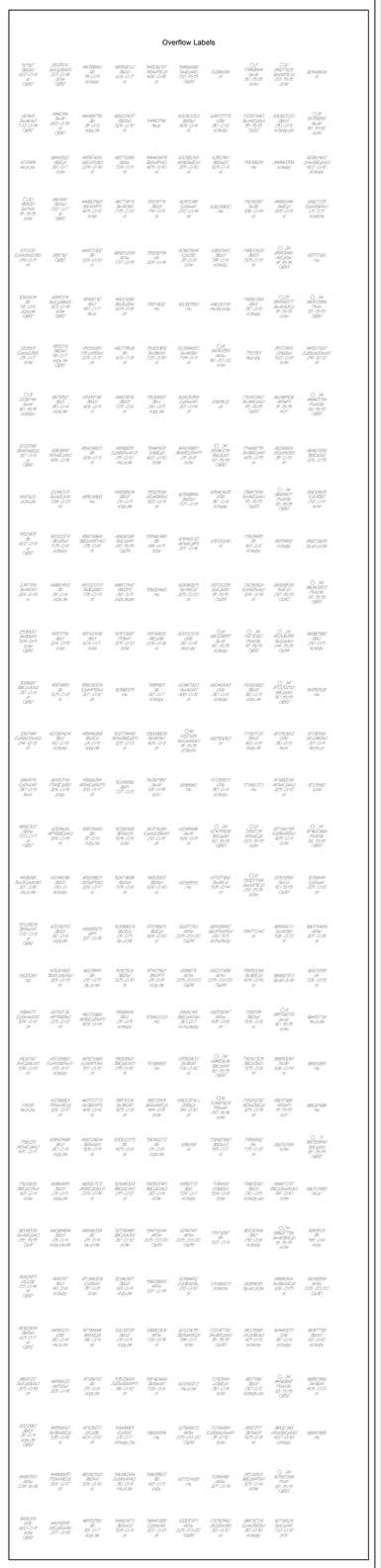
OPENING ID
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH







Overflow Labels



0941097