094G015

Vegetation Map
094G015

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
- Structure Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

TRIM. Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Helos
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofix-Barriers - ESRI
- Watercourses - ESRI
- Waterbodies - ESRI
- Wetlands - ESRI
- Ocean - ESRI

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:

```
    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 Label (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 Opening Number

OLD - opening number valid for BCGS mapsheet NEW - 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 dataed January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
H	HEMLOCK
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
Bp	Pacific Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxw	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
Pa	Albi Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole x Jack Pine hybrid
Pj	Jack Pine (pure stand)
Pjc	Shore Pine (coastal)
Pw	Western White Pine
Pxj	Jack x Lodgepole Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
A	ALDER
U	APPLE
Up	Pacific Crab Apple
E	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Abb	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
R	ARBUTUS
Ra	Arbutus
Ep	ASH
Ea	Alaska Paper Birch
Exp	Alaska x Paper Birch hybrid
Ew	Water Birch (white)
Ewr	Water Birch (red)
K	CASCARA
Kc	Cascara
E	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
Vp	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Broadleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Bentley's)
Wwi	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wsi	Scouler's Willow (gray-leaved)

UNKNOWN - OTHER

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

EXOTICS

U	APPLE
Ua	ASPEN, COTTONWOOD or POPLAR
Ax	*Southern Cottonwood
Ae	Aspen
Ep	European Birch
Ex	Silver Birch (swamp)
Ey	*Yellow Birch
E	CHERRY
Ye	European Cherry
Y	CYPRESS
Yp	*Port Orford Cedar
F	FIR (Balsam)
Bn	*Nobles Fir
Bp	Noble Fir
Bm	*Veitchs Red Fir
Bv	*Veitchs Fir
L	LARCH
Le	*Dahurian Larch
Lk	*Siberian Larch
M	MAPLE
Mr	Red Maple
Mn	*Norway Maple
Ms	*Sycamore Maple
Q	OAK
Qe	*English Oak
Qr	*Red Oak
Z	OTHER EXOTICS
Ob	*Incense Cedar
Oc	*Monterey Cedar
Ob	Coast Redwood
Ow	European Mountain Ash
Op	*Austrian Pine
Pp	Common Pear
Og	Oregon Ash
Ow	White Ash
Ou	*Shagbarck Hickory
Ot	*Butternut
Oh	Japanese Walnut
P	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Py	*Sugar Pine
S	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 values are derived from TIPSY, VDYP and/or existing plot data. 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 arenot present, e.g. recently logged areas. Type Group and SI Estimated source code.

Line 5 Vegetation records

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

NON-TREED SHRUB
- sb 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
- xl Exposed Land
- rs Rock / Rubble
- sw Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ac	ALPINE CLIFF	mp	MUDFLAT SEDIMENT	rm	RESERVOIR MARGIN
be	BEACH	op	OPEN PIT	rmp	RUBBLY MINE SPOILS
bl	BLOCKFIELD	lk	LAKE	oc	OCEAN
bo	BOULDER	lb	LAVA BED	os	OTHER
bu	BURNED AREA	s	POND or LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	mc	OPEN PIT MINE	rr	RESERVOIR
es	EXPOSED SOILS	nn	NONAME	r	RIVER / STREAM
gl	GLACIER				

rm	RESERVOIR MARGIN
rm	RAILWAY SURFACE
rs	RIVER SEDIMENTS
rs	ROAD SURFACE
ta	TALUS
tl	TAILINGS
u	URBAN

Note: Water categories (lk, oc, rr, r) not labelled over 90 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST (Species	NPBR	NON PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
DU	DUNE (SAND)	NPL	NON PRODUCTIVE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	HAYFIELD
MUD	MUDFLAT	R	ROCK
MUD	MUDFLAT	S	SWAMP

SAND	SAND
SALT	SALT FLAT
URBAN	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.

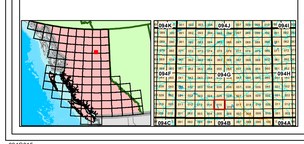
A	Animal Damage	L	Logging
B	Wildfire	M	Mine Damage
C	Cone and Seed Insects	N	Non-Ecological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
		R	Site Rehabilitation
		T	Treatment Injuries
		U	Damage Unknown
		V	Problem Vegetation

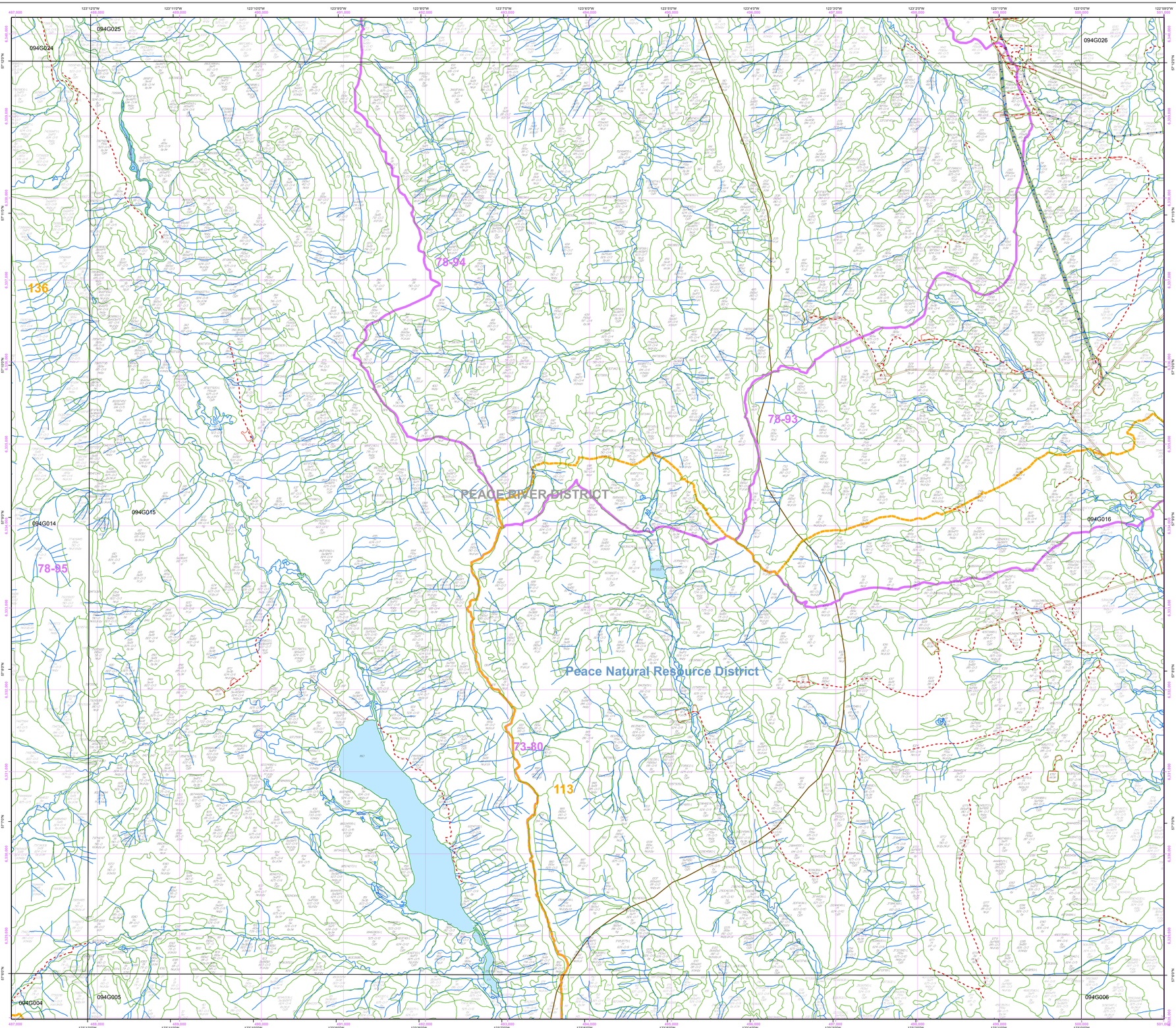
Example Opening History Details

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

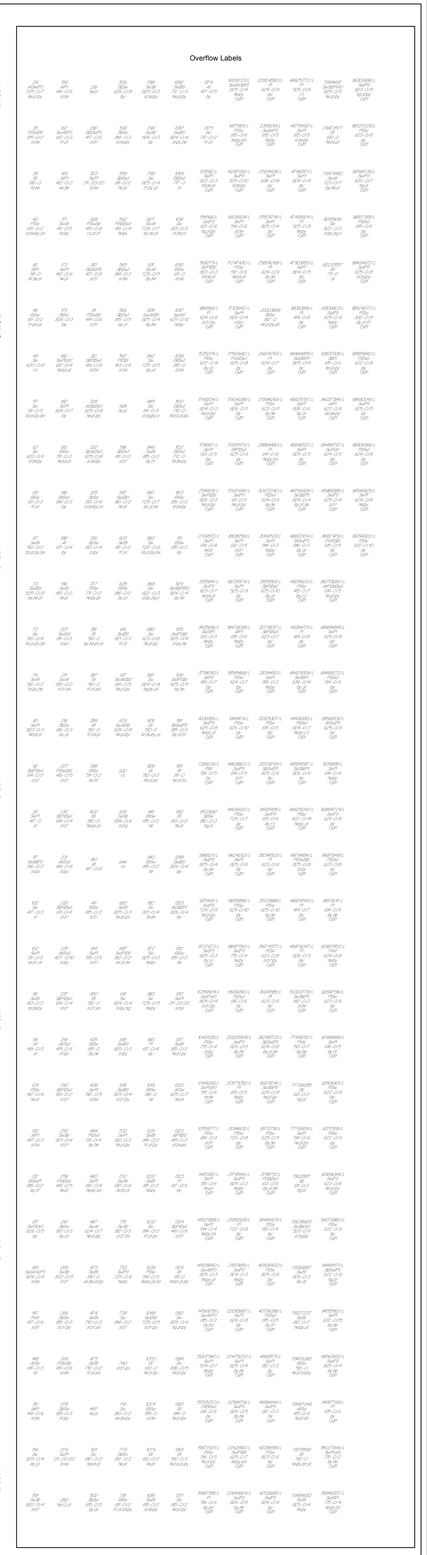
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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





Overflow Labels



094G015

094G015