093K061

Vegetation Map
093K061

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 displayed on this map is approximate. Some 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 /# Vegetation
- Permanent Sample Plot (CFS)
- Research Installations

TRIM, Base Features:
- 4x 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
- Hydro/Marl/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- BEC 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 Class (or Non-Forest/Productive Description)
ex: trees are greater than 4m in height, shrubs between 2m and 4m and graminoids, shrubs less that 2m.
6 Disturbance History & year
ex: Logged in 1978

Line 1 - History Record Opening Number

093K - opening number valid for BCGS mapsheet
093K - 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
- C CEDAR
- Cw Western Red Cedar
- Y CYPRESS
- Yc Yellow Cedar
- D 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
- Hm Mountain Hemlock
- Hw Western Hemlock
- Hxm Mountain x Western Hemlock hybrid
- J JUNIPER
- Jr Rocky Mtn. Juniper
- Jd Sweetie Juniper
- K KRUMMHOLZ
- La Alpine Larch
- Lt Tamarack
- Lw Western Larch
- P PINE
- Pj Jack Pine
- Pl Lodgepole Pine
- Pli Lodgepole Pine (interior)
- Plc Lodgepole Pine (coastal)
- Plx Ponderosa Pine (yellow)
- Pli Shore Pine (coast)
- Pw Western White Pine
- Pw Whitebark Pine
- S SPRUCE
- Se Engelmann Spruce
- Sx Engelmann Spruce
- Ss Sitka Spruce
- Sw White Spruce
- Sxs Spruce hybrid
- Sxw Engelmann x White
- Sxl Sitka x White
- Sxw Sitka x unknown hybrid
- T YEW
- Tw Western Yew

NATIVE HARDWOODS
- D ALDER
- Dr Red Alder
- U APPLE
- Up Pacific Crab Apple
- At ASPEN (COTTONWOOD or POPLAR)
- Ac Aspen
- Act Balsam Poplar
- Ath Black Cottonwood
- Ax Hybrid Poplars
- At Trembling Aspen
- AB ARBUTUS
- Arb Arbutus
- E BIRCH
- Ep Alaska Paper Birch
- Epp Alaska x Paper Birch hybrid
- Ep Paper Birch (white)
- Ec CASCARA
- CA CASCARA
- Ks Cascara
- V CHERRY
- Vb Bitter Cherry
- Vv Choke Cherry
- Vm Pin Cherry
- DG DOGWOOD
- Gp Pacific Dogwood (western flowering)
- M MAPLE
- Mb Bigleaf Maple (broadleaf)
- Mv Vine Maple
- O OAK
- Gb Garry Oak
- W WILLOW
- Wb Bebb's Willow
- Wp Pacific Willow
- Ww Peachleaf Willow (Bentley's)
- Wr Pussy Willow (gray-leaved)
- Wt Scouler's Willow
- Wy Sitka Willow (tea-leaved)

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

EXOTICS
- Y APPLE
- Yp APPLE
- Af ASPEN, (COTTONWOOD or POPLAR)
- Ac Aspen
- Ep European Birch
- Ey Silver Birch (swamp)
- Ew White Birch
- Yc CHERRY
- Yb Sweet Cherry
- Yo Other Cherry
- CY CYPRESS
- Cy Monterey Cedar
- F FIR (Balsam)
- Fa Noble Fir
- Bp Noble Fir
- Bm Shasta Red Fir
- Bn Nikko Fir
- H HEMLOCK
- Hj Japanese Hemlock
- L LARCH
- Lk Dunkeld Larch
- Lj Japanese Larch
- MAPLE
- Mr Red Maple
- Mx Box Elder
- Mo Norway Maple
- Mn Sycamore Maple
- OAK
- Or Northern Oak
- Om White Oak
- OTHER EXOTICS
- Ox Incense Cedar
- Oc Coast Redwood
- Or Interior Redwood
- Ol European Mountain Ash
- Oa Common Elm (southern)
- Of Common Elm
- Og Oregon Ash
- Ow White Ash
- Ot Tree-of-Heaven
- Oj Japanese Walnut
- Ok Kiwi
- Pn Monterey Pine
- Pr Red Pine
- Pp Ponderosa
- 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 shown in metres and in height curve 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 cannot present, e.g. non-forested areas. Estimated SI is the SI of the site which always precedes it. Associated data 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
- s SHRUB - shrub with average shrub height > or = to two metres.
- sl SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- h 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 - MOSSES - bryoid with mosses > 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	gr	GRAVEL PIT
be	BEACH	lk	LAKE
bl	BLOWN DOWN	lb	LAKE BED
br	BEDROCK	li	LANDING
bu	BURNED AREA	lp	POND or LAKE SEDIMENTS
cl	CLEARCUT	mi	MINE - GENERAL
ex	EXPOSED SOILS	mn	MOUNINE
gl	GLACIER		

mu	MUDFLAT SEDIMENT	rm	RESERVOIR MARGIN
ru	RUBBLY MINE SPOILS	rr	RAILWAY SURFACE
ta	TAILINGS	rs	ROAD SURFACE
ot	OTHER	rd	ROAD SURFACE
sn	SNOW COVER	ta	TALUS
st	STREAM	tz	TIDAL FLATS
rv	RIVER / STREAM	ur	URBAN

Note: Water categories (lk, lp, rv, rl) not labelled over 90 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE
AT	ALPINE TYPE (Species	NPBR	NON PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species
D	DRY (Site)	NPL	NON PRODUCTIVE-NOT SUITABLE
GR	GRAVEL PIT	OR	OPEN RANGE
ICE	ICEFIELD	P	roc/YFIELD
M	MARSH	R	ROCKY
MUD	MUDFLAT	S	SWAMP

SAND	SAND		
SF	SILT FLAT		
U	URBAN		
NC	NON COMMERCIAL		
NCBR	NON COMERCIAL BRUSH		
NP	NON PRODUCTIVE		
NPL	NON PRODUCTIVE-NOTSTOCKED		
NTA	NO TYPING AVAILABLE		

Line 6 - Disturbance History

Disturbance type code proceeded 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	P	Cone and Seedling Fungal Pathogens
I	Insects		

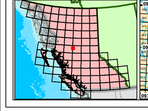
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

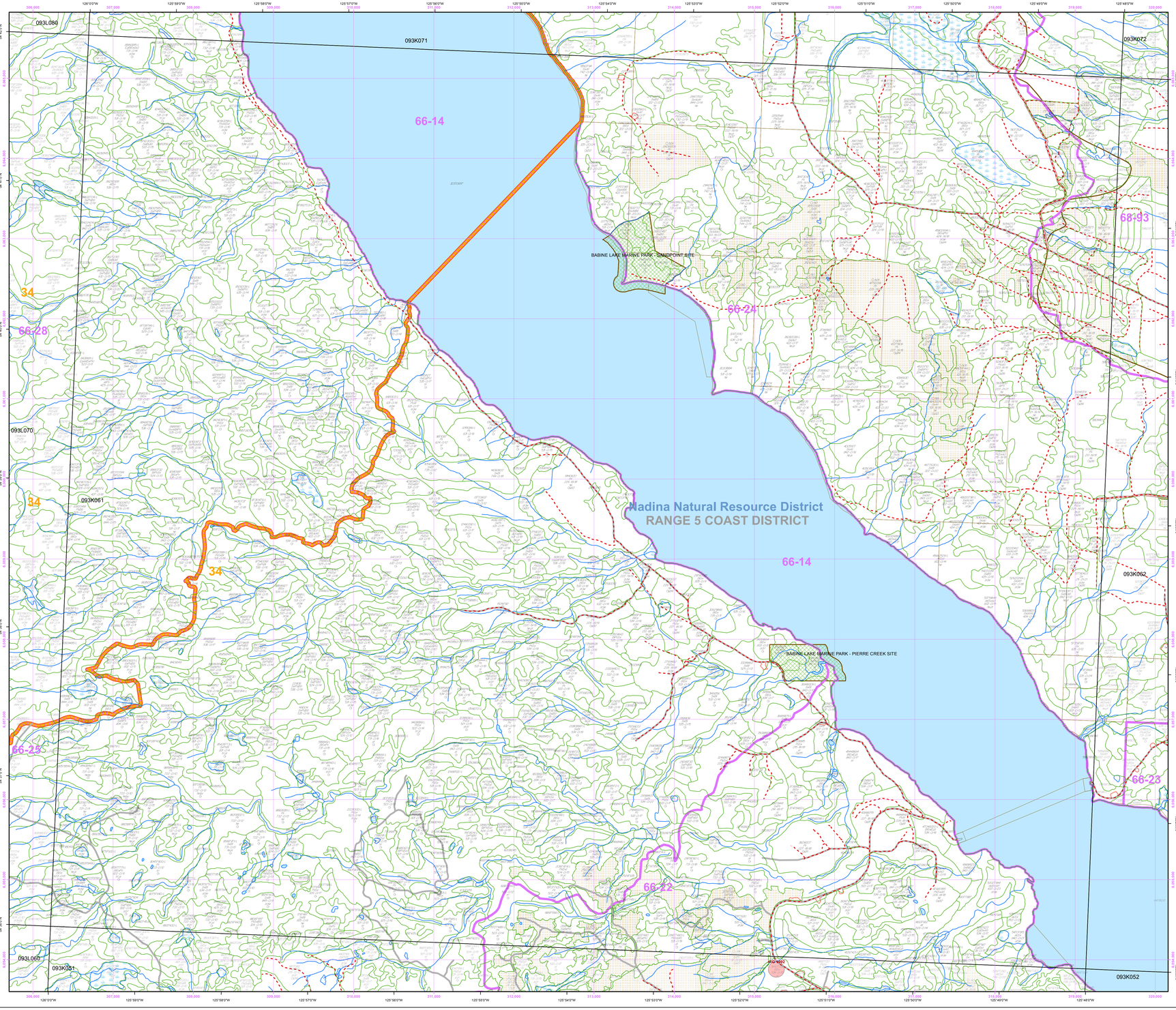
Example Opening History Details

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
SILVICULTURE TREATING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels