093A058

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093A058

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 or Vegetation
- Permanent Sample Plot (CFS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Aprons
- Other Area
- Powerline
- Pipelins
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolin/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

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 He (Western Hemlock).
4. Age, Height, Crown Closure Class Code - separated by / - Site Index / estimated SI
ex: Fd aged 80 years, 30 m tall, CC 40% - 60%, estimated SI 30. 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

CUT - opening number valid for BCGS mapsheet
DUM - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS Polygon Number - ranging from one to nine digits
- Multi-layered stand ia separate description of each layer is available in the data base, i.e. 1.2)

Line 3 - BC Tree Code List 1

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	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	BALSAM
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
Bl	Subalpine Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
H	HEMLOCK
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
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole Pine (interior)
Plc	Lodgepole x Jack Pine hybrid
Pli	Lodgepole x Jack Pine (Sutherlen)
Pp	Shore Pine (coast)
Pw	Western White Pine
Pxj	Hybrid White Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sx	Hybrid Spruce
Sxe	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Y	YEW
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
Em	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Ab	Balsam Poplar
Act	Black Cottonwood
Ah	Hybrid Poplars
At	Trembling Aspen
Ax	Aspen x Poplar
K	Arbutus
B	BIRCH
Ea	Alaska Paper Birch
Eap	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CascaraA
V	CHERRY
Vm	Choke Cherry
Vv	Chokecherry
Vp	Pin Cherry
Vs	Bitter Cherry
Vpr	Prunus Species (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
Ww	Peachleaf Willow (Bentley's)
Wr	Pussy Willow (gray-leaved)
Wy	Sitka Willow
Ws	Sitka x Pacific (Scouler's)

UNKNOWN - OTHER

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

EXOTICS

AX	APPLE
Ua	Apple
	ASPEN, COTTONWOOD or POPLAR
Act	Southern Cottonwood
Ae	ASH
Ep	European Birch
Ek	Silver Birch (swamp)
Ea	Asian Birch
	CHERRY
Vs	Sweet Cherry
Vu	Hybrid Cherry
	*Prun Colford Cedar
	Fifi (Balsam)
Bn	*Nikko Fir
Bp	Noble Fir
Bm	*Shasta Red Fir
Bg	Grand Fir
	LARCH
Ld	*Dahurian Larch
Ls	*Siberian Larch
	MAPLE
Mr	Rox Elder
Mn	*Norway Maple
Mp	Sycamore Maple
OA	OAK
Qe	*English Oak
Qr	Red Oak
	OTHER DECIDUS
Ot	*Incense Cedar
Oc	Catalpa Species
Ov	*Coast Redwood
Oc	European Mountain Ash
Oj	Japanese Mountain Ash
Op	Common Pear
Og	Oregon Ash
Ow	Black Walnut
Oc	*Englelmann Hickory
Oj	Tree-of-heaven
Oj	Japanese Walnut
	PINE
Pne	*Monterey Pine
Pn	Red Pine
Pr	Ponderosa Pine
Pw	Western White Pine
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 dominant trees 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

Estimated Site Index is used when an accurate SI cannot 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)

- wb WATER BODY
- ww WETLAND - SHRUB - shrub with average shrub height > or = to two metres.
- w SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB

- hw 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

- bs BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverwarts, and hornwarts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED

- rf Exposed Land
- ro Rock / Rubble
- s Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

- ap AIRPORT
- be BEACH
- bl BLOCKFIELD
- bu BUILT-UP
- bur BURNED AREA
- cb CUTBANK
- ds DISTURBED SOILS
- gl GLACIER
- gp GRAVEL PIT
- la LAKE
- lb LAVA BED
- mi MINE
- fp POND or LAKE SEDIMENTS
- mp OPEN PIT MINE
- w WORKING
- mu MUDFLAT SEDIMENT
- mv RUBBLY MINE SPOILS
- ri RIVER
- sl SLOPE
- sn SNOW
- sp SNOW COVER
- st STREAM
- r RIVER / STREAM
- rr RESERVOIR MARGIN
- rs ROCK OUTCROPS
- rd ROCK RUBBLE/TAILS
- rl ROAD SURFACE
- ta TALUS
- ul UNLINED
- w WORKING

Note: Water categories (la, sp, st, ri) not labelled over 5% percent coverage.

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

- A ALPINE
- AF ALPINE FOREST ripecies
- C CLIFF
- CL CLAY BANK
- G GRAVEL BAR
- ICE ICEFIELD
- ICE ICEFIELD
- M MEADOW
- MUD MUDFLAT
- NP NON PRODUCTIVE
- NPBR NON PRODUCTIVE BRUSH
- NPDS NON PRODUCTIVE DECID
- NPF NON PRODUCTIVE FOREST ripecies
- NTA NO TYPING AVAILABLE
- R ROCK OUTCROP
- RE RAPIDS
- S SNOWFIELD
- SAND SAND
- TIDE TIDAL FLAT
- U URBAN
- NC NON COMMERCIAL
- NF NOT FORESTED/FINISH
- 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.

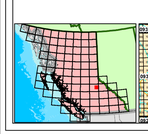
- A Animal Damage
- B Wildfire
- C Cone and Seed Insects
- D Diseases
- I Insects
- L Logging
- M Mite Damage
- N Non-Biological Injuries
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

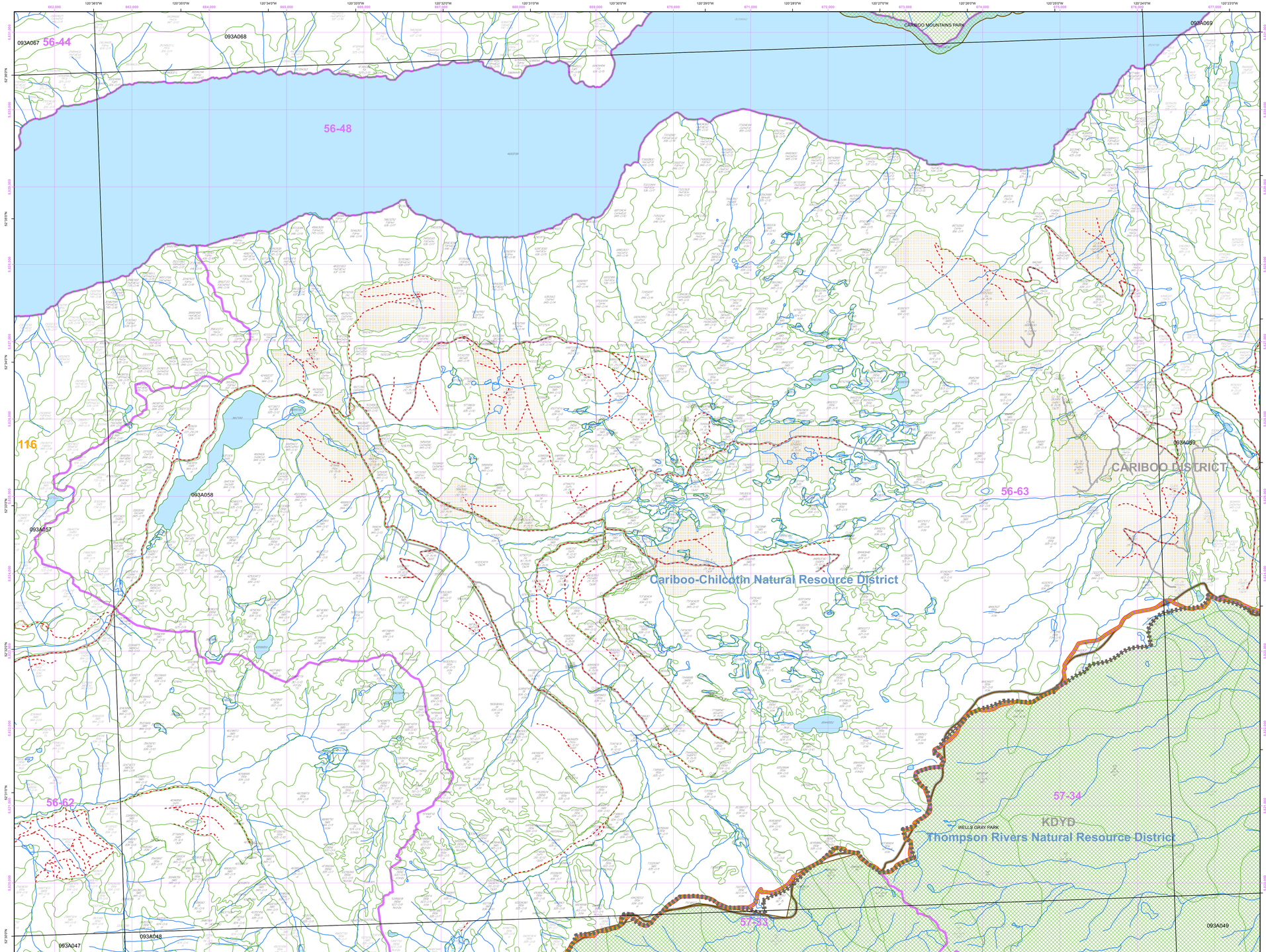
Example Opening History Details

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