093H018

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093H018

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 contained in this map is derived from the GBC Gazetteer, administrative boundaries and the Ownership colour theme are for reference purposes only. (Layers in revisions June 2014).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Nonvaluble 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
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNavBarriers - 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 - FACM
- Land District boundary
- Administative 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
Spruce the most important layer is described as Fd (Douglas 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 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

opening number valid for BCGS mapsheet — 0000 - 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	Yellow Cedar
H	HEMLOCK
F	DOUGLAS FIR
Fd	Douglas Fir
Fdi	Coastal Douglas Fir
Fdl	Interior Douglas Fir
B	BALSAM FIR
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
Js	Seaside Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Limber Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coastal)
Plx	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pa	Whitebark Pine
Pw	Western White Pine
Py	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
Ep	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Act	Black Cottonwood
Ap	Balsam Poplar
At	Trembling Aspen
R	ARBUTUS
Ra	Arbutus
Ep	Paper Birch
Ea	Alaska Paper Birch
Ep	Paper Birch (white)
Ew	Red Birch
K	CASCARA
Kc	Cascara
G	DOGWOOD
Vs	Bitter Cherry
Vv	Choke Cherry
Vp	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gb	Garry Oak
Gc	Oregon Oak
W	Rocky's Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Barclay's)
Ww	Pussy Willow (gray-leaved)
Wr	Red Willow
Wf	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

Uk	APPLE Apple
Ad	ASPEN, COTTONWOOD or POPLAR "Southern Cottonwood
Ae	BIRCH European Birch
Es	Silver Birch (swamp)
Ey	Yellow Birch
Ek	CHERRY
Vs	Sweet Cherry
Yo	CYPRESS "Port Orford Cedar
Bc	FIR (Balsam) Noble Fir
Bb	Nobis Fir
Bp	Nobis Fir
Bm	"Shasta Red Fir
Bc	Noble Fir
Lt	LARCH "Dahurian Larch
Ld	"Dahurian Larch
Mk	MAPLE
Me	Box Elder
Mr	"Norway Maple
Ms	"Sycamore Maple
Qa	OAK "English Oak
Qw	"White Oak
Ox	OTHER EXOTICS "Incense Cedar
Gk	"Giant Sequoia
Gs	"Coast Redwood
Ma	European Mountain Ash
Qe	Siberian Elm (southern)
Cf	Common Pear
Og	Oregon Ash
Ot	Tree-of-heaven
Cl	"Shagbarck Hickory
Cj	Tree-of-heaven
Ck	"Japanese Walnut
Pm	PINE "Monterey Pine
Pn	"Red Pine
Py	"Sugar 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. Site Index curves for the Province are based on the dominant leading species. When an accurate SI cannot be calculated from age and height, estimated SI is shown after, or replaces the SI.

4e ESTIMATED SITE INDEX

SI is estimated when suitable SI trees aremnt present, e.g. Mature stands with no SI trees, immature stands (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
- sp SHRUB: TALL - shrub with average shrub height > or = to two metres.
- s 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 hornwarts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- at Exposed Land
- ro Rock / Rubble
- w Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ac	ANTHOPT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
ar	ARTIFICIAL	ic	ICE	mv	ROBBOV MINE SPOILS
bl	BLOCKFIELD	la	LAVA BED	oc	OCEAN
br	BEDROCK	li	LANDING	oi	OTHER
bu	BURNED AREA	lk	POND or LAKE SEDIMENTS	ps	SNOW COVER
cb	CLIFF/BANK	mi	MINE DEVELOPED	rd	ROAD/TRAIL
es	EXPOSED SOILS	mn	MORAINE	ri	RIVER / STREAM
gl	GLACIER				

Note: Water categories (la, se, re, ri) not labelled over 90 percent coverage.

rm	RESERVOIR MARGIN
rn	RAILWAY SURFACE
rs	RIVER SEDIMENTS
rz	ROAD SURFACE
tv	TALUS
wt	WATERCOURSE
ur	URBAN

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

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
BR	BRUSH/TREED	NPBS	NON PRODUCTIVE SHRUB	U	URBAN
CL	CLAY BANK	NPTF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
L	LAKE/WATER	R	ROCK/RUBBLE	NCR	NON COMMERCIAL
M	MEADOW	S	SNOW	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	NTA	NO TYPING AVAILABLE

Line 6 - Disturbance History

Disturbance type code preceeded by symbol, followed by earliest date

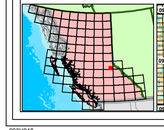
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

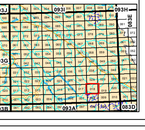
A	Animal Damage	L	Logging
B	Wildfire	M	Mide Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

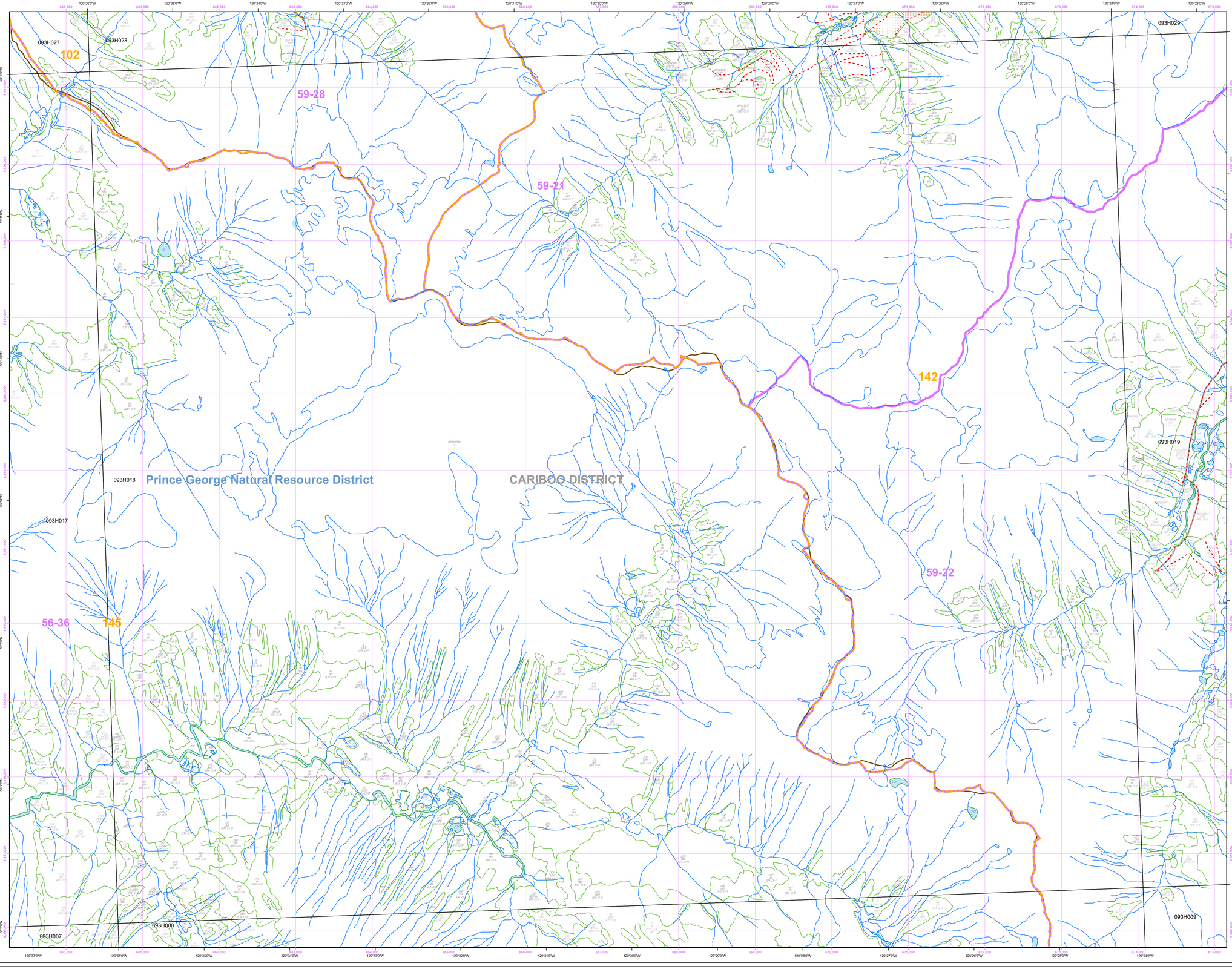
Example Opening History Details

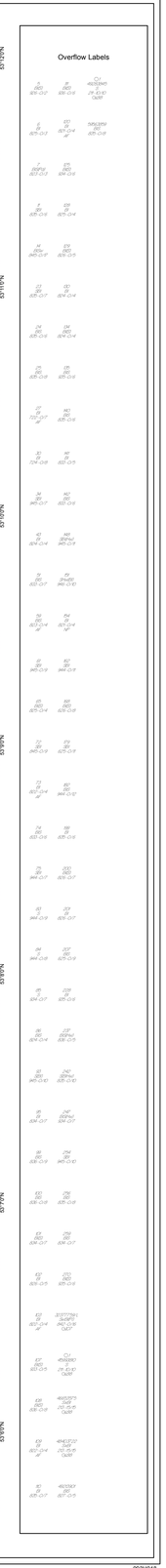
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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
- SILVICULTURE BASING ACTIVITY
- ACTIVITY TREATMENT UNIT
- STANDARDS UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH









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