093N010

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093N010

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 or Vegetation
- Permanent Sample Plot (VRI3)
- Research Installations

TRIM_Base Features:
- 4x Bulk Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airfields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofalls-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 (1:1,000,000 fea. < 5% % hatch)
- Municipal boundary (1:1,000,000 fea.> 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 Structure 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 (Douglas Fir) and Hw (Western Hemlock)
4 Age Class, Height Class, Crown Closure Class, Site Index
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. 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

nnnn - opening number valid for BCGS mapsheet zzzz - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

Valid 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 dataed 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	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hm	Mountain Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lw	Western Larch
P	PINE
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coastal)
Plx	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western Pine (soft)
Pxj	Ponderosa x Jack Pine hybrid
Pxw	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Englemann Spruce
Sx	Sitka Spruce
Sxe	Spruce hybrid
Sxl	Spruce hybrid
Sxl	Sitka x White
Sxs	Sitka x Unknown hybrid
YEW	
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	BIRCH
Ep	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Ab	Balsam Poplar
Act	Black Cottonwood
Ax	Hybrid Poplar
Al	Trembling Aspen
Ep	ARBUTUS
E	BIRCH
Ep	Alaska Paper Birch
Ew	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Epg	Paper Birch hybrid
Ew	Water Birch
Ka	CascARA
Ku	CHERRY
Kc	Choke Cherry
Kv	Choke Cherry
Kp	Pin Cherry
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gb	Garry Oak
W	WILLOW
Wp	Pacific Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Bandaxy's)
Wr	Red Willow (Sitka Mountain Alder)
Ws	Scouler's Willow
Wl	Sitka Willow (tree-leaved)
Z	UNKNOWN
Zz	UNKNOWN OTHER
Xx	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zz	other conifer
Zh	other hardwood

EXOTICS

	APPLE
Ua	Domestic
Ad	ASPEN, COTTONWOOD or POPLAR
	*Southern Cottonwood
	BIRCH
Be	European Birch
Bpy	Purple Birch (swamp)
Bp	*Yellow Birch
	CHERRY
Ys	Sweet Cherry
	CYPRESS
Yo	Hinoki Cinkori Cedar
	FIR (Balsam)
Bn	*Nikko Fir
Bnh	*Shasta Red Fir
Bm	*Veitch Fir
	LARCH
Ld	*Dahurian Larch
Lk	*Japanese Larch
	MAPLE
Mk	Box Elder
Mp	*Norway Maple
Mr	*Sycamore Maple
	OAK
Qr	*English Oak
Qs	*White Oak
	OTHER EXOTICS
Oa	*Black Locust
Oc	*Giant Sequoia
Ob	*Coast Redwood
Of	*European Mountain Ash
Ot	Siberian Elm (southern)
Op	Common Pear
Oc	*Horse Chestnut
Ow	*White Ash
Oj	*Shagbark Hickory
Ol	*Black Walnut
Oj	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Ps	*Sugar Pine
	SPRUCE
Sn	*Norway Spruce

Line 4

4a. AGE CLASS

CODE	AGE (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	HEIGHT (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	CLOSURE (percentage)
1	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 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, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX
Estimated Site Index is used when no Site Index cannot present, e.g. young stands (<50yrs). If an estimate is a stash which always provides 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 l records)

NON-TREED SHRUB

sp	SHRUB TALL - shrub with average shrub height > or = to two metres.
st	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 gaminoids > 50% of the herb cover.

NON-TREED BRYOID

by	BRYOID - 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

v	Vegetated Land
r	Rock / Rubble
s	Snow / Ice

NON-VEGETATED CATEGORIES (for 'n' and l records)

aa	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
ac	CLEARING	gr	ROAD	mv	MUDFLAT/ MARSH SPOILS
bl	BLOCKFIELD	l	LAVA BED	oc	OCEAN
br	BEDROCK	ll	LANDING	ot	OTHER
cb	CLIFF/ CANADA	ls	LANDING SIDE SEGMENTS	pl	POWERLINE
cu	CUTBANK	m	OPEN PIT MINE	re	RESERVOIR
es	EXPOSED SOILS	mo	MORAINE	r	RIVER / STREAM
gl	GLACIER				

rm	RESERVOIR MARGIN
rs	RIVER SEDIMENTS
rw	RIVER SEGMENTS
sr	ROAD SURFACE
t	TALUS
tl	TAILINGS
u	URBAN

Note: Water categories (aa, as, re, r) must labelled over 90 percent coverage.

NON-FOREST / NON PRODUCTIVE DESCRIPTOR CODES (for l' records)

AF	ALPINE FOREST	NPB	NON PRODUCTIVE BRUSH
AFP	ALPINE FOREST (Species	NPBS	NON PRODUCTIVE BURN
C	CULTIVATED	NPF	NON PRODUCTIVE FOREST (Species
CL	CLEARING	NTA	NO TYPING AVAILABLE
G	GRASS, MEA	NTA	NO TYPING AVAILABLE
GR	GRAVEL PIT	OR	OPEN RANGE
M	MEADOW	R	ROCK / TALUS
W	MEADOW	S	SWAMP
MUD	MUD FLAT		

NC	NON COMMERCIAL
NCBR	NON COMMERCIAL BRUSH
NP	NON PRODUCTIVE
NSR	NOT SUFFICIENTLY RESTOCKED
NTA	NO TYPING AVAILABLE
SAND	SAND
TOF	TOOL FLAT
U	URBAN

Line 6 - Disturbance History

Disturbance type code preceded by symbol, followed by earliest date
Additional of disturbance type designates category; refer to official code list for sub-category descriptions.

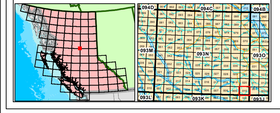
A	Animal Damage	R	Site Rehabilitation
B	Wildfire	S	Silviculture Injuries
C	Cone and Seed Insects	U	Undetermined Injuries
D	Diseases	V	Problem Vegetation
F	Cone and Seedling Fungal Pathogens		
I	Insects		

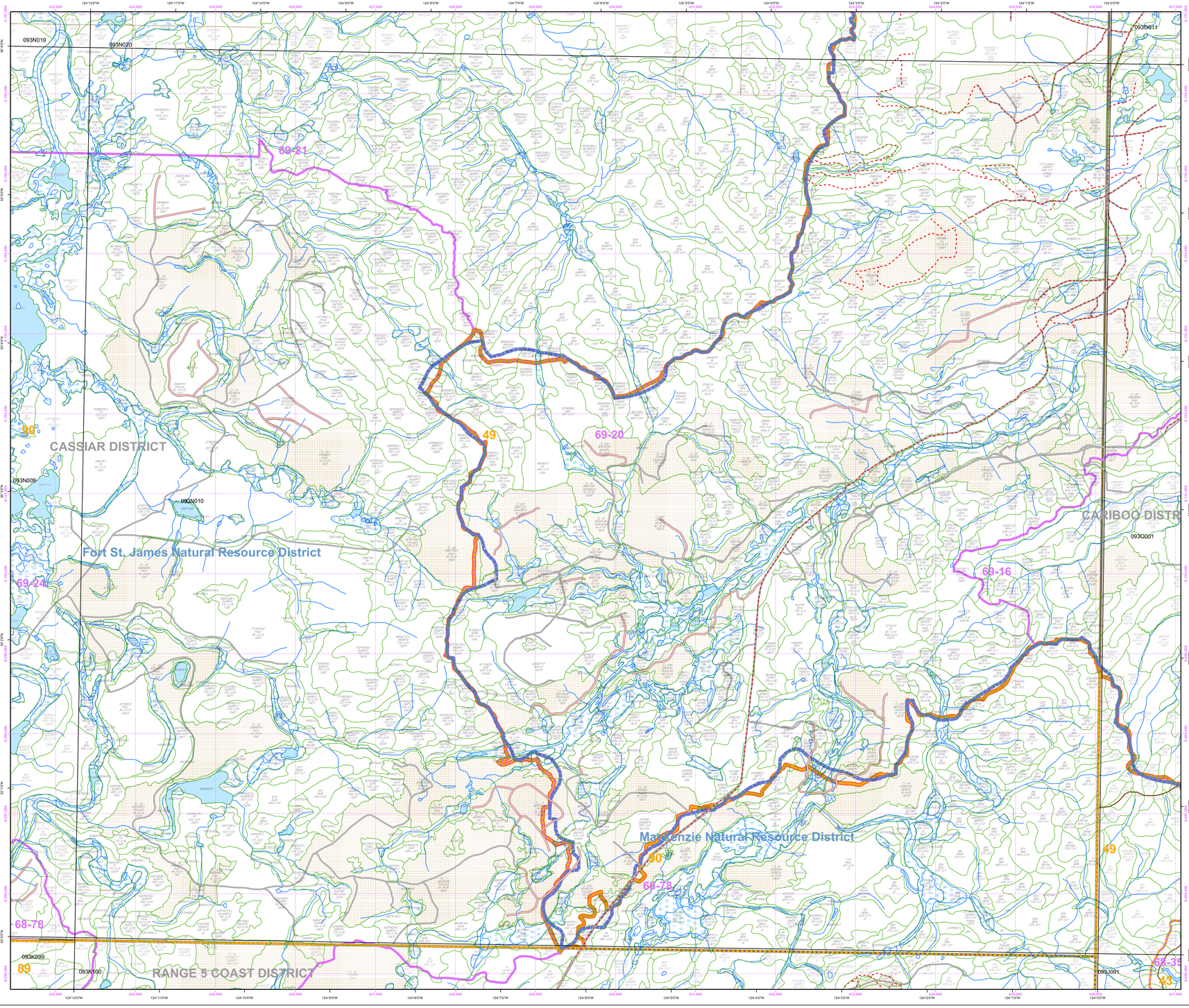
Example Opening History Details

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

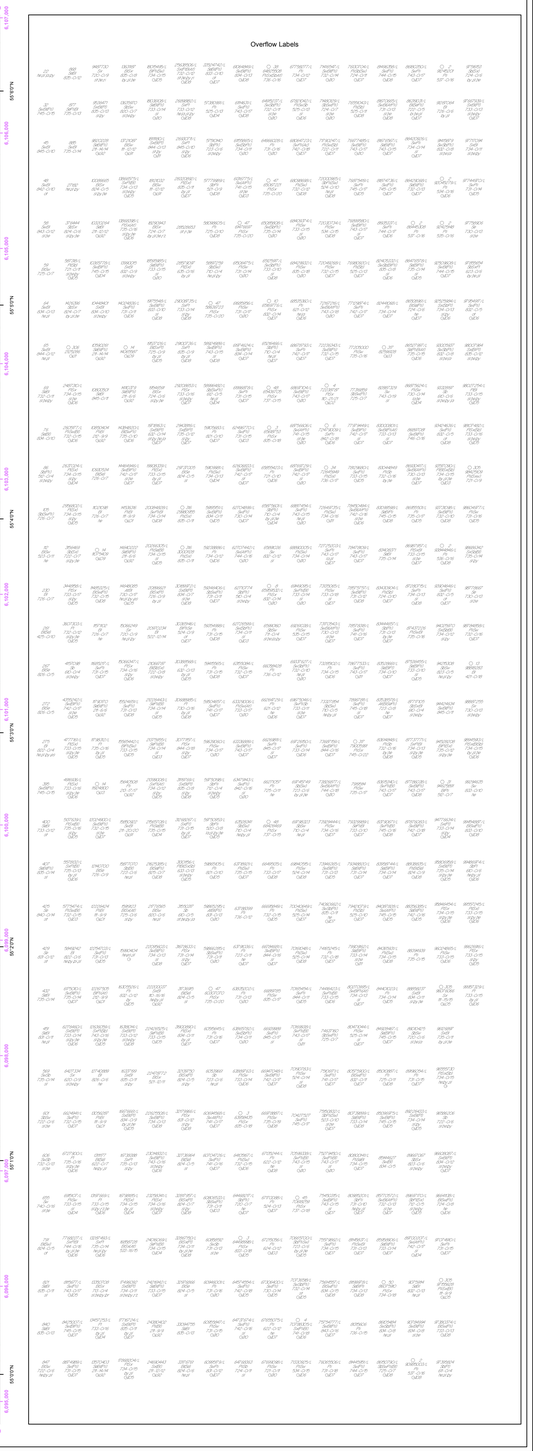
The Ministry of Forests, Mines and Lands web application "Map Place" provides access to this and related information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for:

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





Overflow Labels



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