093C091

Vegetation Map
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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 contained on this map is not to be used for navigation. Only 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 (SIYS)
- Research Installations

TRIM, Base Features:
- 4ss Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Arena
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Reef/levee - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADW
- INV Region Compartment - FADW
- Provincial Forest area - FADW
- Timber Supply Area Block - FADW
- Tree Farm Licenses - FADW
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (1:1,000,000 Ha - 15 % hatch)
- Municipal boundary (1:1,000,000 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:

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LINE  DESCRIPTION
 1    Structure Number and Opening Number
 2    Polygon Number and multi-layer stand indicator (LL)
 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: a 141-250 year old stand, 25.1 - 30.0 m tall, 61 - 70 % 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
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Line 1 - History Record Opening Number

- opening number valid for BCGS mapsheet
- ZOOM - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRIMS Polygon Number - ranging from one to nine digits
1, ... 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 Codes List" version 4.5 dated January 2009.

NATIVE CONIFERS

Cw	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Ba	Amabilis Fir
Bg	Grand Fir
B	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
Lp	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Whitebark Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole Pine (interior)
Plx	Lodgepole x Jack Pine hybrid
Pj	Jack Pine (planted)
Pfa	Ponderosa Pine (alpine)
Pw	Western White Pine
Pyb	Limber Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxe	Spruce hybrid
Sxl	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x Unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ARBUTUS
Dr	Red Alder
E	APPLE
Ep	Pacific Crab Apple
Act	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Ac	Poplar
Act	Black Cottonwood
Ah	Hybrid Poplars
Ae	Trembling Aspen
C	CHERRY
Cby	Bitter Cherry
E	BIRCH
Ep	Alaska Paper Birch
Epa	Alaska x Paper Birch Hybrid
Ew	Paper Birch (white)
Ewp	Paper Birch
K	DOGWOOD
Kc	Cascara
Kp	Pacific Dogwood
Ue	Elm
Yo	Choke Cherry
Yp	Pin Cherry
G	OGONBERRY
Gp	Pacific Ogonberry (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Or	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Ww	Peachleaf Willow (Bentley's)
Wwl	Pussy Willow (gray-leaved)
Wy	Sitka Willow
Wys	Sitka Willow (the lowland)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xl	other conifer (not fir)
Xm	other hardwood
Zh	other hardwood

EXOTICS

Ax	ASH
Act	ASPEN, COTTONWOOD or POPLAR
Ass	Balsam Cottonwood
Bb	BIRCH
Be	European Birch
Bp	Asian White Birch
Yw	Yellow Birch
Y	YEW
Yt	Japanese Yew
Yt	CYPRESS
Ylc	Nootka Cedar
Fir	FIR (Balsam)
Bl	Subalpine Fir
Bn	Noble Fir
Bm	Shasta Red Fir
Bv	Grand Fir
L	LARCH
Le	*European Larch
Lk	*Japanese larch
M	MAPLE
Mr	Box Elder
Mn	*Norway Maple
Mr	*Sycamore Maple
OAK	
Oe	*English Oak
Or	*White Oak
P	PINE (EXOTIC)
Pc	*Corsican Pine
Pn	*Austrian Pine
Pe	European Mountain Ash
Pm	*Mountain Pine Ash
Q	Common Pear
Qg	Oregon Ash
Qi	Green Ash
Qt	*Kingsville Hickory
Qt	Tree-of-heaven
Qj	*Japanese Walnut
PRU	
Pm	*Monterey Pine
Pp	*Red Pine
Pp	*Scots Pine
SPRUCE	
Sn	*Norway Spruce

Line 4

4a. AGE CLASS

CODE	LIMITS (years)
1	0-40
2	41-80
3	81-100
4	101-120
5	121-140
6	141-250
7	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 based on the age and height of the dominant and co-dominant trees. Where the relationship between age and height, addressed SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX
SI is estimated when suitable SI trees cannot present. e.g. young stands (<30yrs). It is denoted by a slash which always precedes the estimated number. SI is based on Site Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

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

SP	SHRUB TALL - shrub with average shrub height > or = to 2m metres.
S	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

B	BRYOID - bryoid with no distinction between mosses and lichens by cover.
BM	BRYOID - MOSS - bryoid with mosses, liverwork, and hornwork > 50% of the bryoid cover.
BL	BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES: (for I records)

W	WATER	RS	RIVERSLAY SEDIMENT
bm	BEACH	L	LAKE
bl	BOULDERFIELD	R	RIVER
bi	BIOGENIC	s	SALINE
bu	BURNED AREA	is	POND or LAKE SEDIMENTS
ea	EXPOSED ALPINE	ir	RIVER SEDIMENTS
es	EXPOSED SOILS		
gl	GLACIER		

mt	MUDFLAT SEDIMENT	rr	RESERVOIR MARGIN
ro	RUBBLY MINE SPOILS	rs	RAILWAY SURFACE
s	SAND	rv	RIVER GRAVELS
u	OTHER	rd	ROAD SURFACE
sn	SNOW COVER	tl	TALUS
ice	ICE/PERMANENT	w	WATER
	WAVES / STREAM		

Note: Water categories (w, is, ir) must be labelled over 50 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (if req'd/Pl)

A	ALPINE	NP	NON-PRODUCTIVE
C	CONIFER FOREST-Species	NPB	NON-PRODUCTIVE BRUSH
C	CULTIVATED	NPBG	NON-PRODUCTIVE BURN
CL	CLAY BANK	NPF	NON-PRODUCTIVE FOREST-Species
D	DECIDUOUS	NPL	NON-PRODUCTIVE LAKE
G	GRASS (PT)	OB	OPEN BANKS
H	HERB	OT	OPEN TUNDRA
M	MEADOW	R	ROCK
MUD	MUDFLAT	SAND	SAND

SAND	SAND		
SNOW	SNOW		
U	URBAN		
NC	NON-COMMERCIAL		
NCB	NON-COMMERCIAL BRUSH		
NF	NON-FOREST		
NSR	NOT SUFFICIENTLY RESTOCKED		
NVL	NOT VEGETATED LAND		

Line 6 - Disturbance History

Disturbance type code preceeded by symbol, followed by earliest date.
Final character of disturbance type designates category, refer to official code list for sub-category descriptions.

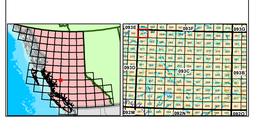
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
		R	Site Rehabilitation
		T	Treatment Injuries
		U	Damage Unknown
		V	Probable Vegetation

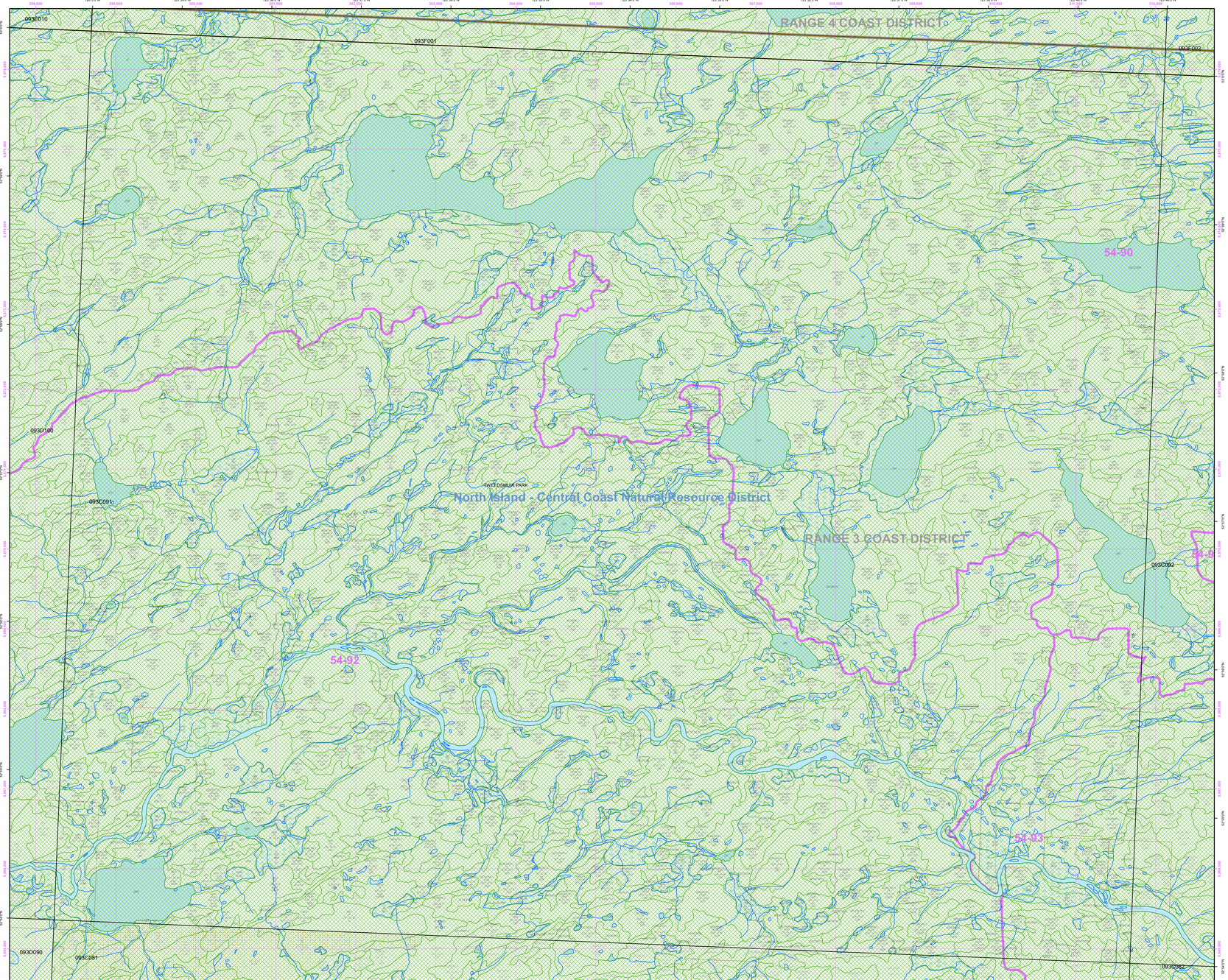
Example Opening History Details

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

The Ministry of Forests, Mines and Lands web application "Results" provides access to the Silviculture 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

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