093F031

Vegetation Map
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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 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 2016).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening ≥ Vegetation
- Permanent Sample Plot (2170)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- AirFerries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aq-Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- RV: 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 (≥ 1:200,000 fra - 15 % hatch)
- Municipal boundary (≥ 1:200,000 fra2 - 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
4a Age, Height, Crown 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 5 (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

opening number valid for BC GS mapsheet — DOM - 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 4.6 dated January 2009

NATIVE CONIFERS

Ba	Balsam
Cw	Western Red Cedar
Y	CYPRESS
Ep	Engelmann Spruce
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Bg	Grand Fir (Balsam)
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
Bp	Amabilis Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Western Hemlock / Mountain Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulus Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Albicaulis Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole x Jack Pine hybrid
Pm	Mountain Pine (Mugo)
Pmb	Mountain x Western Hemlock hybrid
Pw	White Pine
Py	Ponderosa Pine (yellow)
Pyj	Shore Pine (coast)
Pyp	Ponderosa Pine (interior)
Pw	Whitebark Pine
S	SPRUCE
Se	Sitka Spruce
Sep	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxs	Spruce hybrid
Sxw	Engelmann x White
Sxl	Spruce hybrid
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ASPEN
E	BIRCH
U	APPLE
Ac	Pacific Crab Apple
At	ASPEN, COTTONWOOD or POPLAR
Ato	Poplar
Ax	Black Cottonwood
Ay	Balsam Poplar
Ay	hybrid Poplars
Vp	Prairie Cherry
V	WILLOW
Ba	Arbutus
Dw	Dogwood
Ep	Alaska Paper Birch
Epg	Alaska x Paper Birch hybrid
Ew	Water Birch (white)
Ewr	Water Birch
K	CASCARA
Kc	Cascara
Y	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
Vp	Pin Cherry
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Ww	Peachleaf Willow (Bonitay's)
Wr	Red Willow (Scouler's Willow)
Wsc	Sitka Willow
Wt	Sitka Willow (tea-leaved)

UNKNOWN/NIL - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zn	Nil stocking
Zn	other hardwood

EXOTICS

Ue	APPLE
Au	ASPEN, COTTONWOOD or POPLAR
Ay	Southern Cottonwood
Ey	European Birch
Ey	Paper Birch (swamp)
Vy	Hybrid Bird Cherry
Vy	CHERRY
Yp	Lawson's Cypress
Yp	CYPRESS
Yp	*Port Orford Cedar
Yp	*Nootka Cypress
Bp	*Balsam Fir
Bp	Noble Fir
Bp	*Veitch's Fir
Bc	*Grand Fir
Lt	LARCH
Lt	*European Larch
Lt	*Siberian Larch
Mb	MAPLE
Mb	Box Elder
Mb	*Norway Maple
Mb	*Sycamore Maple
Qrk	OAK
Qe	*English Oak
Qe	*White Oak
Qe	*Pedunculate Oak
Qe	*Sessile Oak
Qr	*Red Oak
Qs	*Garry Oak
Os	*Coast Redwood
Oc	*Common Mountain Ash
Oa	Siberian Elm (southern)
Of	Common Pear
Ob	*Black Ash
Oh	*White Ash
Ot	*Shagbark Hickory
Ow	*Bitternut Hickory
Ok	Japanese Walnut
PINE	
Pm	*Monterey Pine
Pn	*Red Pine
Ps	*Sugar Pine
Pr	*Scots Pine
Sn	*Norway Spruce
Sb	*Shasta Red Fir
Bl	*Subalpine Fir
L	LARCH
Ld	*Dahurian Larch
Ld	*Japanese Larch
MAPLE	
Mbk	Box Elder
Mn	*Norway Maple
Mb	*Sycamore Maple
OAK	
Qe	*English Oak
Qe	*White Oak
OTHER EXOTICS	
Ob	*Black Ash
Os	*Coast Redwood
Oc	*Coast Redwood
Oc	*Common Mountain Ash
Of	Common Pear
Ob	*Black Ash
Oh	*White Ash
Ot	*Shagbark Hickory
Ow	*Bitternut Hickory
Ok	Japanese Walnut
PINE	
Pm	*Monterey Pine
Pn	*Red Pine
Ps	*Sugar Pine
Pr	*Scots Pine
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 m
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 (percentages)
1	0 - 5
2	6 - 15
3	16 - 25
4	26 - 35
5	36 - 45
6	46 - 55
6	56 - 65
7	66 - 75
8	76 - 85
9	86 - 100

4d SITE INDEX

Site Index is based on 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 the inventory information it is shown after or replaces the SI.

4e ESTIMATED SITE INDEX

Estimated Site Index is used when no previous site errors present, e.g. young stands (<30yrs). If a SI is estimated by a start 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 inscode)

NON TREED SHRUB
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- w SHRUB LOW - shrub with average shrub height < two metres.

NON TREED HERB
- hw HERBS - 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
- W Exposed Land
- rs Rock / Rubble
- ss Snow / Ice

NON VEGETATED CATEGORIES (for V and I inscode)

ap	AIRPORT	gp	GRAVEL PIT
bl	BOULDERS	ls	LAKE
bf	BLOCKFIELD	rs	LAKE-BED
br	BEDROCK	t	LANDING
cb	CONSOLIDATED	ds	DELTA LAKE SEDIMENTS
cl	CUTBANK	op	OPEN PIT MINE
ex	EXPOSED SOILS	mw	MORAINE

mc MUDFLAT SEDIMENT
mp MUNICIPAL WINE SPOILS
oc OCEAN
or OTHER
rc ROCK COVER
re RESERVOIR
rs RIVER - STREAM
rm RESERVOIR MARSH
ro RAILWAY SURFACE
rs RIVER SEDIMENTS
rz ROAD SURFACE
sa SAND
ta TAILINGS
u URBAN

Inscode: Water categories (w, e, ea, o, r) not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F inscode)

	ALPINE	NP	NON PRODUCTIVE
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH
CL	CULTIVATED	NPBU	NON PRODUCTIVE BURN
DC	DECIDUOUS	NPBR	NON PRODUCTIVE BRUSH/ /Species
DI	GRAVEL BAR	NTA	NO TYPING AVAILABLE
GR	GRAVEL PIT	OR	OPEN RANGE
HE	HERBS	R	ROADS
M	MEADOW	s	ROCK
MF	MUD FLAT	SWAMP	

SAND SAND
TIDE TIDAL FLAT
U URBAN

NC NON COMMERCIAL
NCBR NON COMMERCIAL BRUSH
NSR NOT SATISFACTORY
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.

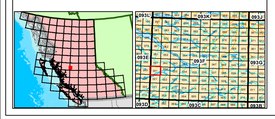
A	Animal Damage	L	Logging
B	Wildfire	M	Mist Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

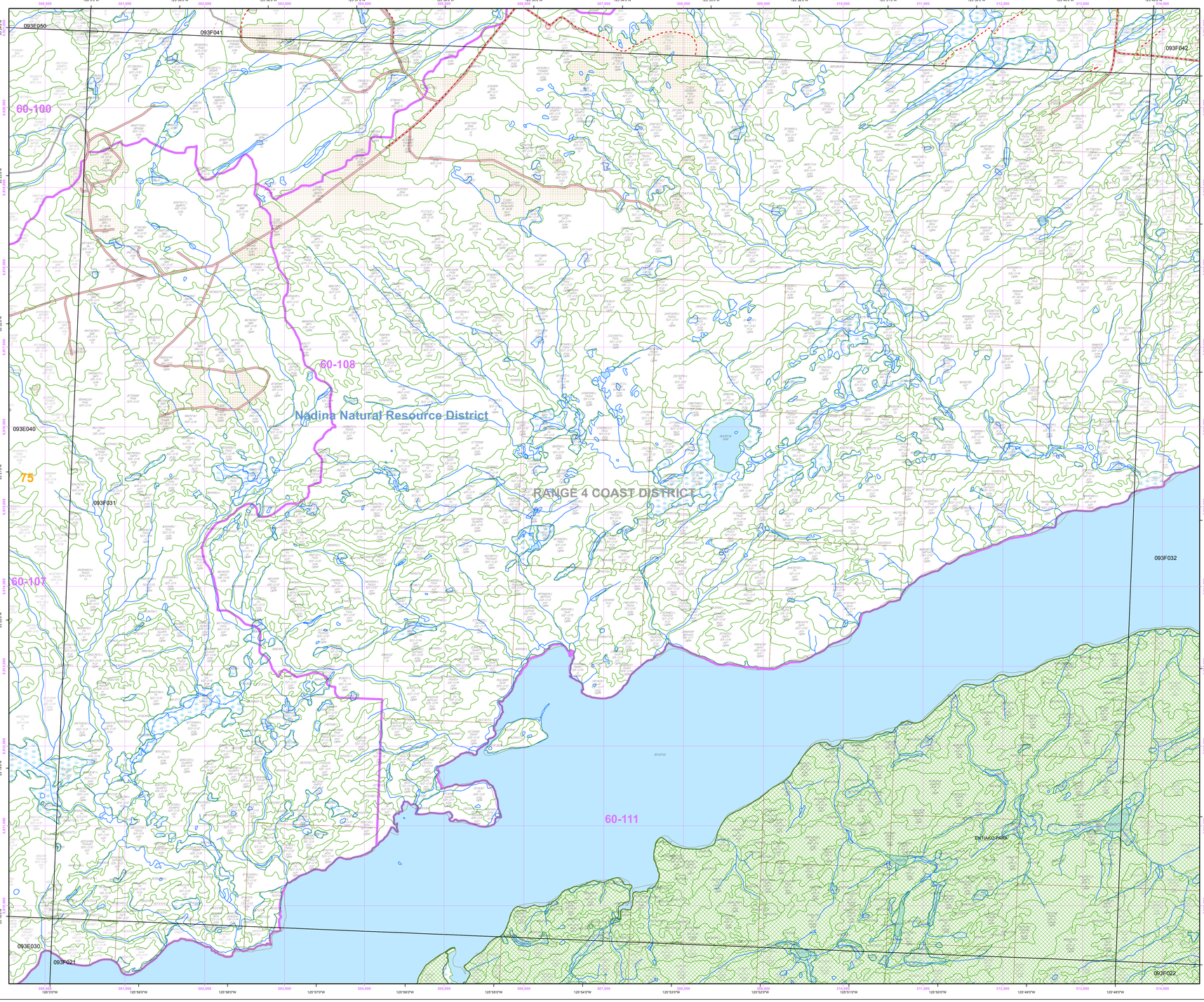
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either AVI 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 Data" to turn on display values for -

OPENING ID
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
WILDLIFE TREE RETENTION CODE
WILDLIFE TREE PATCH





Overflow Labels

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