093L005

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 contained in this map is compiled from a variety of data sources. Administrative boundaries and the Ownership colour theme are for reference purposes only. (Legend is dated June 2014).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening /A Vegetation
- Permanent Sample Plot (1ha)
- Research Installations

TRIM. Base Features:
- 4x 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
- Hydrkn/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource Distrct 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:
- NTS50 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 (Douglas Fir) and Hw (Western Hemlock) ;
4 Age Class : Height Class : Crown Closure Class Code : estimated 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 fed/c polygon with no distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Cuping Number

nnnn - opening number valid for ECOS mapsheet — zzzz - 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 below 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	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
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Western Hemlock Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulus Juniper
L	LARCH
La	Alpine Larch
Lw	Tamarack
Lw	Western Larch
P	PINE
Pa	Albicaulis Pine
Pf	Limber Pine
Pfx	Limber/Lodgepole Pine (interior)
Pjg	Lodgepole x Jack Pine hybrid
Pl	Lodgepole Pine (contorta)
Plx	Shore Pine (coast)
Pw	Western White Pine
Px	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sk	Sitka Spruce
Sw	White Spruce
Sx	Hybrid Spruce
Sxe	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x Lutzense hybrid
YEW	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Ep	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Balsam Poplar
Ad	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
E	ARBUTUS
Ea	Arbutus
Ep	BIRCH
Ea	Alaska Paper Birch
Eap	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vc	Bitter Cherry
Vf	Choke Cherry
Vp	Pin Cherry
Vv	Bird Cherry
Vp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Pw	Peachleaf Willow (Bentor's)
Ww	Pussy Willow (grey-leaved)
Wy	Scouler's Willow
Ww	Sitka Willow (low-branch)

UNKNOWN - OTHER

Un	UNKNOWN
Xc	unknown conifer
Xd	unknown deciduous
Xl	OTHER (tree lst on list)
Zc	other conifer
Zn	other hardwood
Zw	Water Birch
Zx	Red Osier Dogwood
Zc	Cascara
Vf	CHERRY
Vc	Bitter Cherry
Vp	Pin Cherry
Vv	Bird Cherry
Wb	Bebb's Willow
Wp	Pacific Willow
Ww	Peachleaf Willow (Bentor's)
Ww	Pussy Willow (grey-leaved)
Wy	Scouler's Willow
Ww	Sitka Willow (low-branch)

EXOTICS

Ue	APPLE
Ue	Apple
At	ASPEN, COTTONWOOD or POPLAR
Ae	Balsam Cottonwood
Be	BIRCH
Ze	European Birch
Ze	Purple Birch (Fastigiate)
Ey	Yellow Birch
Mh	CHERRY
Yh	Japanese Cherry
Y	CYPRESS
Yp	Port Orford Cedar
Yn	Nootka Cypress
Bp	Balsam Fir
Bg	Noble Fir
Bn	Nordmann Fir
Bc	White Fir
L	LARCH
Lk	Siberian Larch
Ld	Tamarack Larch
Lk	Siberian Larch
M	MAPLE
Mr	Norway Maple
Mk	Sycamore Maple
OA	OAK
Qe	English Oak
Qr	Red Oak
Qb	Box Elder
Mr	Norway Maple
Mk	Sycamore Maple
OH	OTHER
Oj	Shagbarks Hickory
Oj	Tree-of-heaven
Oa	Japanese Walnut
P	PINE
Pm	Monterey Pine
Pn	Red Pine
Ps	Scots Pine
S	SPRUCE
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	101-140
7	141-180
8	181-250
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 as the nearest metre referenced at 50 years breast height Age. SI is based on the age and height of the tallest layer. Site index estimates are determined by averaging age and height, estimated SI is shown after, or replaces the SI.

4e ESTIMATED SITE INDEX

SI is estimated when suitable SI trees are remnt present, e.g. young stands (<50yrs). It is denoted by a dash which always follows the SI number (example 20-). SI values are the mid-ht Type Group and SI Estimated source code.

Line 5 - Vegetation records

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

NON-TREED SHRUB
- w 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 hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- ar Exposed Land
- rn Rock / Rubble
- sn Snow / Ice

NON-VEGETATED CATEGORIES *(for N and I records)*

be	BEACH	lk	LAKE	mu	MUDFLAT SEDIMENT
br	BLOCKFIELD	la	LAVA BED	mp	RUBBLY MINE SPOILS
bu	BURNED AREA	ri	POND or LAKE SEDIMENTS	oc	OCEAN
bs	BURNED AREA	rs	POND or LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	rn	OPEN PIT MINE	re	RESERVOIR
ds	DEPOSITIONAL SOILS	mo	MORAINE	st	STREAM / CANAL
gl	GLACIER				

Note: Water codes are to be identified over 90 percent coverage.

rm	RESERVOIR MARGIN		
rm	RAILWAY SURFACE		
rs	RIVER SEDIMENTS		
rd	ROAD SURFACE		
ta	TALUS		
tl	TAILINGS		
ur	URBAN		

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES *(for F records)*

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AT	ALPINE FOREST (Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
BE	BEACH	NPBS	NON PRODUCTIVE BRUSH	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
ICE	GLACIER	OPN	OPEN WOODLAND	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	R	ROCKBLUFF	NP	NON PRODUCTIVE
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUDFLAT	S	SWAMP	NTA	NO TYPING AVAILABLE

Line 6 - Disturbance History

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

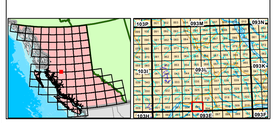
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	N	Natural Damage	U	Unknown Damage
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

Example Opening History Details

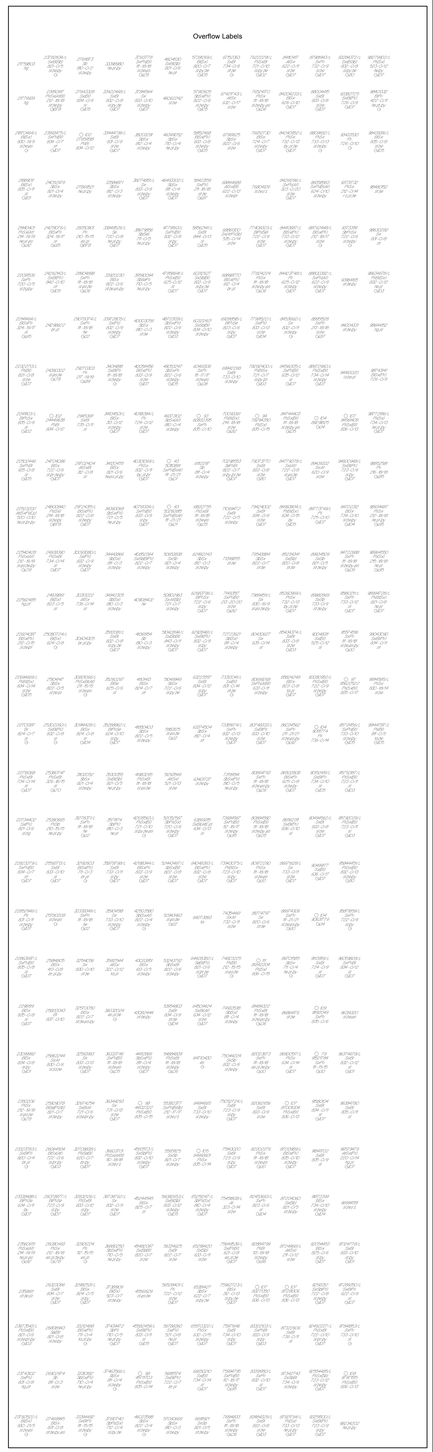
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. In MAPVIEW, click the GIS tab then click on "Display Silviculture Map" to turn on display values for -

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



Overflow Labels



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