093A016

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 - WSMS // 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 in Vegetation
- Permanent Sample Plot (SITE)
- 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
- Hydro/Aqueducts - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- REV_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:
- 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
4 Age, Height, Crown Closure Class Code - separator: Site Index / estimated SI
ex. eland 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

opening number valid for BCGS mapsheet ; ( ) 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 4.0 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
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hmh	Mountain x Western Hemlock hybrid
J	JUNIPER
Jd	Rocky Mtn. Juniper
Jr	Seaside Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plg	Lodgepole x Jack Pine hybrid
Pli	Lodgepole Pine (coast)
Pw	Shore Pine (coast)
Pw	Western White Pine
Py	Ponderosa Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sx	Sitka Spruce
Sw	White Spruce
Sxe	Spruce Hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	Dogwood
U	Hard Maple
V	APPLE
Vc	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Ac	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
E	ARBUTUS
Ea	Arbutus
Ep	BIRCH
Ew	Alaska Paper Birch
Ewp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
Ey	Yellow Birch
K	Cascara
Y	CHERRY
Yb	Bitter Cherry
Yv	Choke Cherry
Yp	Pin Cherry
Ys	Sweet Cherry
Q	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Broad Maple (broadleaf)
Mv	Vine Maple
G	OAK
Gg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Ww	Peachleaf Willow (Bartda's)
Wr	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wt	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

Z	UNKNOWN
Zh	unknown hardwood
Zn	unknown softwood
Z	OTHER (tree not on list)
Zh	other hardwood
Zn	other softwood

EXOTICS

Lw	LARCH
Ad	ASPEN, COTTONWOOD or POPLAR
Ab	BIRCH
Ea	European Birch
Ep	Paper Birch (swamp)
Ey	Yellow Birch
Y	CHERRY
Ys	Sweet Cherry
Y	CYPRESS
Yp	Port Orford Cedar
F	DOUGLAS FIR
Fdc	Douglas Fir
Lt	Tamarack
Lw	Western Larch
M	MAPLE
Mb	Box Elder
Mh	Norway Maple
Mr	Red Maple
Q	OAK
Qe	English Oak
Qr	Red Oak
O	OTHER EXOTICS
Oa	Incense Cedar
Oc	Coast Redwood
Oc	Coast Redwood
Od	European Mountain Ash
Oh	Common Horsechestnut
Ol	Common Pear
Og	Oregon Ash
Ot	Tree of Heaven
Ow	Wingbark Hickory
Oj	Tree-of-Heaven
Ok	Japanese Walnut
Pm	Monterey Pine
Pn	Scots Pine
Pj	Dwarf 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	101-120
7	121-140
8	141-160
9	161+

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)
1	0 - 5
2	6 - 15
3	16 - 25
4	26 - 35
5	36 - 45
6	46 - 55
7	56 - 65
8	66 - 75
9	76 - 85
	86 - 100

4d SITE INDEX

All SI are shown to the nearest metre referenced at 50 years breast height age. SI is the average height of the dominant 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

SI is estimated when suitable SI trees arenot present; e.g. Recent disturbance. Site Index is the same as the polygon which 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 I records)

NON TREED SHRUB
- s SHRUB - shrub with average shrub height > or = to two metres.
- st 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
- by BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSSES - bryoid with mosses > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- rf Exposed Land
- rr Rock / Rubble
- si Snow / Ice

NON VEGETATED CATEGORIES - (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT
bl	BOULDERS	lk	LAKE
bf	BOULDERFIELD	lb	LAVA BED
br	BEDROCK	ri	RIVER/STREAM
cb	CLIFF/BANDS/CAVES	s	POND or LAKE SEDIMENTS
cu	CUTBANK	sl	SALT LAND
ds	DEBRIS/SCREE/TALUS	ow	WORKINGS
mu	MUD/FLAT SEDIMENT	rm	RESERVOIR MARGIN
ow	SLUDGE/ MINE SPOILS	rw	RAILWAY SURFACE
oc	OCEAN	rs	RIVER SEDIMENTS
sn	PERM SNOW	rd	ROAD SURFACE
sc	SNOW COVER	tc	TRUCK
rr	RESERVOIR	tl	TAILINGS
r	RIVER / STREAM	ur	URBAN

Note: Polygon categories bs, ex, ou, rc not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTIONS (for I records)

ALPINE		SAND	SAND DUNES
ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE TIDAL FLAT
BARREN	NPBRS	NON PRODUCTIVE SHRUB	U URBAN
CLAY BANK	NPFL	NON PRODUCTIVE FOREST /Species	
GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC NON COMMERCIAL
HERBFIELD	OP	OPEN WATER	NPBR NON PRODUCTIVE BRUSH
ICE / ICEFIELD	R	ROCK	NP NON PRODUCTIVE
MEADOW	R	ROCK	NSR NOT SUFFICIENTLY RESTOCKED
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.

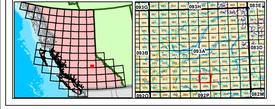
A	Animal Damage	L	Logging
B	Wildfire	M	Mild Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seeding Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

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



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