Vegetation Map
092J054

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 / Terrain

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. Boundaries and 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
- Structure Opening in Vegetation
- Permanent Sample Plot (1015)
- Research Installations

TRIM. Base Features:
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airfields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolines/Rivers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- Sub 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 hat - 10 % hatch)
- Municipal boundary (1:1,000,000 hat - no hatch)
- National Parks
- First Nations
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreation Areas

Other:
- NTS/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 (if top 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 1 (6-15%), SI 20m
5 Non-Vegetative Cover and Non-Forested Descriptions
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 - Historic Record Opening Number
- opening number valid for BCGS mapsheet
none - 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 Symbols 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

C	CEDAR
Cw	Western Red Cedar
Y	Yellow Cedar
Hw	Hemlock
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Bg	Grand Fir
Bg	Grand Fir
B	Subalpine Fir (alpine)
Ba	Alpine Fir
H	Mountain Hemlock
Hw	Western Hemlock
Hwi	Western x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
L	LARCH (tamarack)
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (coastal)
Pli	Lodgepole Pine (interior)
Pa	Whitebark Pine (alpine)
Pp	Ponderosa Pine (yellow)
Pw	White Pine
Pw	Western White Pine
Pyb	Ponderosa Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sx	Hybrid Spruce
Sw	White Spruce
Sxe	Engelmann x Sitka
Sxw	Engelmann x White
Sxl	Hybrid Spruce
Sxs	Sitka x unknown hybrid
Ss	Sitka
Yp	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Da	Sitka Alder
Up	Paulo Oaks Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Ae	Balsam Poplar
Act	Black Cottonwood
Ac	Trembling Aspen
Ax	Trembling Aspen
E	BIRCH
Ep	Alaska x Paper Birch hybrid
Ew	Water Birch (white)
Ep	Paper Birch
K	CASCARA
Kc	Cascara
C	CHERRY
Cb	Bitter Cherry
Cv	Chuke Cherry
Cm	Black Cherry
D	DOGWOOD
Dr	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Qg	Garry Oak
W	WILLOW
Wb	Black's Willow
Wp	Pacific Willow
Wr	Peachleaf Willow (Bonnby's)
Ww	Pussy Willow (gray leaved)
Wy	Scouler's Willow
Ws	Sitka Willow (tea leaved)

UNKNOWN - OTHER

X	unknown conifer
Xc	unknown hardwood
Xh	unknown (will not kill fir)
Z	other conifer
Zh	other hardwood

EXOTICS

APKJ	
Ajpk	
Ax	ASPEN, COTTONWOOD or POPLAR
Asp	*Southern Cottonwood
BBOH	
Ep	Alaska Birch
Ew	Grow Birch (swamp)
Ey	*Yellow Birch
Ep	Paper Birch
Cs	Sweet Cherry
Cv	Chuke Cherry
Yp	*Port Orford Cedar
Ew	Western Yew
Bb	*Balsam Fir
Bp	Noble Fir
Bpa	*Pacific Red Fir
Bs	*Sitka Fir
LWCH	
Lk	*Koreian Larch
Lw	*Siberian Larch
Lx	Hybrid Larch
MB	Box Elder
Mn	*Norway Maple
Mk	*Japanese Maple
OAK	
Qb	*Bur Oak
Qw	*White Oak
OTHER EXOTICS	
Ch	*Horse Chestnut
Ca	*Green Ash
Cw	*Coast Redwood
Cp	*Common Hedge-Ash
Ce	*Siberian Elm (southern)
Ch	*Chestnut
Og	Oregon Ash
Ow	*White Ash
Ot	*Kingdonia Hickory
Cj	Tree-of-heaven
Ct	*Common Walnut
PINE	
Pm	*Monterey Pine
Pn	*Austrian Pine
Pr	*Scots Pine
Pp	*Ponderosa Pine
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	141-250
9	251 +

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 19.4
3	19.5 - 27.4
4	27.5 - 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
Site Index is the expected 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 / or site information a default value or replacing line 10.

4e. ESTIMATED SITE INDEX
Estimated Site Index is the expected SI for the stand present, e.g. young stands (<50yrs). It is denoted by a slash which always precedes it. Associated Note in the data base are inventory type, Biogeoclimatic Zone and SI Estimation Source code.

Line 5 - Vegetation records

VEGETATED NON-TREE CATEGORIES (5a/ 6 and 7 records)

NON-TREED SHRUB
- SP - SHRUB - shrub with average shrub height > or = to two metres.
- sl - 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 - MOSS - bryoid with mosses, liverworts, and hornwork > 50% of the bryoid cover.
- bl - BRYOID - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (5a/ 6 and 7 records)

bl	BLUFF	l	LAKE	mg	MUDFLAT SEGMENT
be	BEACH	ls	LAKE SED	mp	RUBBLY MINE SPOILS
b	BLOCKFIELD	lt	LAKE TID	o	OTHER
ea	EXPOSED ROCK	m	MARSH	p	PERMANENT COVER
ra	RUBBLY AREA	p	POND or LAKE SEGMENTS	r	RESERVOIR
s	SAND	pd	POND - DRAINED	s	SALTMARSH
ek	EXPOSED SOILS	sw	SEDIMENT	r	RIVER / STREAM
gl	GLACIER				

rm - RESERVOIR MARGIN
rw - RAILWAY SURFACE
rr - RAILWAY TRACKS
rs - ROAD SURFACE
t - TALUS
tc - TALUVUS
u - URBAN

Note: Water categories 5a, 5c, 5l, 5r will identified over 80 percent coverage.

NON FOREST / NON PRODUCTIVE DESCRIPTOR CODES (for 7 records)

AF	ALPINE FOREST	NPBR	NON PRODUCTIVE BRUSH
AFSP	ALPINE FOREST Species	NPBRSP	NON PRODUCTIVE BRUSH Species
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CSP	CULTIVATED	NPBUSP	NON PRODUCTIVE BURN Species
G	GRASS, SAW	NTA	NO TYPING AVAILABLE
GSP	GRASS, SAW	NTC	NO TYPING CODE
KR	KRYFIELD	P	HAYFIELD
MS	MOSS, SAW	R	ROCK
MUS	MUSTY LAT	S	SWAMP

SAND SAND
TIDE TIDAL FLAT
U URBAN

NCN COMMERCIAL
NCNBR COMMERCIAL BRUSH
NP NON PRODUCTIVE
NPSTOCKED NON PRODUCTIVE STOCKED
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
B	Wildfire	M	Mechanical Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
	Insects		
	Unknown		
R	Site Rehabilitation		
S	Stand Tending		
U	Damage Unknown		
V	Problem Vegetation		

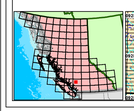
Example Opening History Details

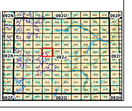
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of thematic RESULTS data.

The Ministry of Forests, Mines and Lands web application http://www.for.gov.bc.ca/hts/ has more detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

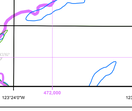
OPENING
OPENING LABEL
SILVICULTURE BASE ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
WILDLIFE TREE PATCH

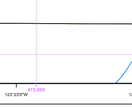


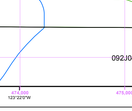


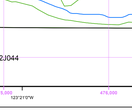


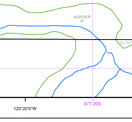


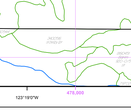




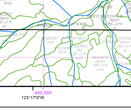


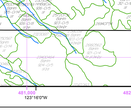


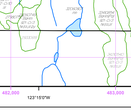


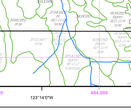


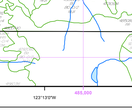


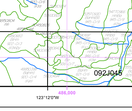






















Overflow Labels

092J054