083D023

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
083D023

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers
0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRMS / 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 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 Inventory Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

TRIM - Base Features:
- 4x4 Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Fields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Rivers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

Administrative Boundaries:
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District 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:
- BCGS Wesheed Grid (1:20,000)

VEGETATION LABEL DETAILS

Example of a Vegetation Label:

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OP    LINE DESCRIPTION
E15   1 Silviculture symbol and Opening Number
2     2 Polygon Number and multi-layer stand indicator (L)
Fd    3 Species Composition
Hw    4 Age, Height, Crown Closure Class Code - separator - Site Index / estimated SI
A-20  ex: stand is age class 2 (21-40 yrs), height class 1 (0.1-10.4m), crown closure class 1 (6-15%), SI: 20m
Wa1   5 Vegetated Density Class or Non-Forest/Inoperable Description /
Gr28  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

OP - opening number valid for BCGS map sheet ZZZ - opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

(#1)#2 Polygon Number - ranging from one to nine digits
A - 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 4.5 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Nootka Cypress
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	FIR (Balsam)
Ba	Subalpine Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jc	Rocky Mtn. Juniper
Js	Scopulo Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plg	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pw	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sx	Sitka Spruce
Sw	White Spruce
Sxw	Hybrid Spruce
Sxe	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x Unknown hybrid
Y	YEW
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
D	Red Alder
U	APPLE
Ua	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Black Cottonwood
Act	Black Cottonwood
Ax	Hybrid Poplars
At	Trembling Aspen
E	BIRCH
Ea	Alaska Paper Birch
Eap	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
G	CASCARA
Kc	Cascara
V	Red Elder
Vs	Stiff Cornel
Vn	Choke Cherry
Vp	Pin Cherry
Vr	BOG Cherry
Vp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gg	Garry Oak
Q	White Oak
Ws	Bebb's Willow
Wp	Pacific Willow
Wb	Barclay Willow (Barclay's)
Wg	Peach Willow (Hooker's leaved)
Ws	Scouler's Willow
Wl	Sitka Willow (low leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zu	other conifer
Zh	other hardwood

EXOTICS

U	APPLE
Ua	Apple
Ad	ASPEN, COTTONWOOD or POPLAR
Ab	Balsam Cottonwood
E	BIRCH
Ea	European Birch
Ej	Japanese (Asiatic)
Ey	Yellow Birch
	CHERRY
Ve	European Cherry
Vi	Hybrid Cherry
Yp	"Pond Orford Cedar"
F	FIR (Balsam)
Bb	"Balsam Fir
Bc	"Corkbark Fir
Bm	"Sharpy Red Fir
Bl	"White Fir
L	LARCH
Lk	"Dahurian Larch
Ls	"Siberian Larch
	MAPLE
Me	Box Elder
Mn	"Norway Maple
Mr	"Red Maple
	OAK
Qr	"English Oak
Qw	"White Oak
	PINE - EXOTICS
Ce	"Incense Cedar
Gb	"Giant Sequoia
Lp	"Lodgepole Pine
Od	European Mountain Ash
Ow	Siberian Elm (southern)
Oc	"Common Ash
Og	"Oregon Ash
Ow	"White Ash
O	"Shagbark Hickory
Q	Tree-of-Heaven
Ow	"Black Walnut
	PINE
Pm	"Mondrey Pine
Pn	"Scots Pine
Pp	"Stone Pine
	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	141-250
9	251 +

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 18.4
3	18.5 - 28.4
4	28.5 - 37.4
5	37.5 - 48.4
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 in 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 age and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees are not present, e.g. young stands (<30yrs). It is denoted by a slash 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 records)

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

NON-TREED HERB
- H - HERB - herb with no distinction between forbs and graminoids.
- M - HERB - FORBS - herb with forbs > 50% of the herb cover.
- HG - HERB - GRAMINOIDS - herb with graminoids > 50% of herb cover.

NON-TREED BRYOID
- B - BRYOID - bryoid with no distinction between mosses and lichens by cover.
- BM - BRYOID - MOSS - bryoid with mosses, liverwrts, and hornwrts > 50% of the bryoid cover.
- BL - BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gr	GRAVEL PIT	mu	MUDFLAT SEDIMENT
bl	BEACH/LD	la	LAKE	mw	MUDFLAT WAVE SPOILS
cl	CLAY MINE	lk	LAKE/RIVER	ri	OCEAN/RIVER
bl	BEDROCK	lt	LANDING	rl	OTHER
bu	BURNED AREA	p	POND or LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	ro	OPEN PIT MINE	re	RESERVOIR
dy	DRY/SALT SOILS	rm	MORAINE	st	SHORELINE/STREAM
gl	GLACIER				

Note: Water categories (la, ra, re, rl) not detailed as for 20 percent coverage.

rm	RESERVOIR MARGIN		
rv	RIVER/STREAM		
rs	RIVER SEDIMENTS		
rc	ROAD SURFACE		
t	TALUS		
tl	TAILINGS		
w	WASH		

NON FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I records)

A	ALPINE	NP	NON-PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST (Spaces	NPBR	NON-PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
BE	BEACH	NPBU	NON-PRODUCTIVE BURN	U	URBAN
CL	CLAY MINE	NPF	NON-PRODUCTIVE FOREST (Species		
G	GRAVEL BAR	NPM	NON-PRODUCTIVE MINE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	P	HAYFIELD	NP	NON-PRODUCTIVE
L	LAKE/RIVER	R	ROCK	NPBS	NON-PRODUCTIVE BRUSH-STEM-STO-KED
MUD	MUDFLAT	S	SWAMP	NTA	NO TYPING AVAILABLE

Line 6 - Disturbance History

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

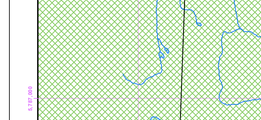
A	Animal Damage	L	Logging
B	Wildfire	M	Mink Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

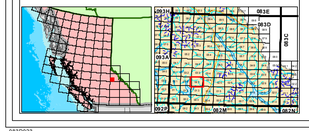
Example Opening History Details

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