104A040

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
104A040

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 2014).

Labels Projected To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Syvicluture Opening in Vegetation
- Permanent Sample Plot (GYS)
- 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
- Hydro/Au-Barriers - 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 Mapsheet Grid (1:20,000)

VEGETATION LABEL DETAILS

Example of a Vegetation Label:

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      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 (Douglis 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 Species Composition - Layer 2 (if applicable - see Example Description)
        ex. a two storied stand with an inclusion between trees and graminoids, shrubs less that 2m.
      6 Disturbance History & year - ex. Logged in 1978
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Line 1 - History Record Oping Number

xxx - opening number valid for BCGS mapsheet zzzx - 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 4.5 dataed 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)
Bp	Pacific Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Hemlock x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Western Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Pli	Lodgepole x Jack Pine hybrid
Ply	Lodgepole Pine (yellow)
Pw	White Pine (soft)
Pxw	Western White Pine
Pyb	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sep	Prince Rupert
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Sitka x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
V	APPLE
Vp	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Act	Balsam Poplar
Act	Black Cottonwood
At	Hybrid Poplars
At	Trembling Aspen
E	ASBUTUS
Ep	Arbutus
Ew	Willow
Ew	Alaska Yukon Birch
Ewa	Alaska x Paper Birch hybrid
Ewc	Scouler's Willow (Carrbu)
Ew	Water Birch
K	CASCARA
G	COTTONWOOD
G	COCKWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
Qr	Red Oak
R	Bebb's Willow
Rp	Pacific Willow
Rpg	Pacific Willow (Qinlg-Islands)
Rpf	Prairy Willow (grey-leaved)
Rs	Scouler's Willow
Rsl	Sitka Willow (sea-leaved)

UNKNOWN - OTHER

X	unknown conifer
Xc	unknown conifer
Xh	unknown hardwood
Xl	unknown (usually not on list)
Z	other conifer
Zh	other hardwood

EXOTICS

V	APPLE
Vp	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ad	Southern Cottonwood
E	ELM
Ea	European Birch
Ey	Silver Birch (swamp)
Ey	Silver Birch
H	HAWTHORN
Vs	Sweet Cherry
Y	CYPRESS
Yo	Port Orford Cedar
F	FIR (Balsam)
Bl	Subalpine Fir
Bp	Noble Fir
Bpa	Noble x Red Fir
Bm	White Fir x
L	LARCH
Lk	Siberian Larch
Lsi	Siberian Larch
M	MAPLE
Mr	Red Maple
Ms	Silver Maple
Mp	Purpleleaf Maple
OA	OAK
Qb	"Giant Sequoia
Qc	Chinkapin Oak
Qe	European Mountain Ash
Qe	Siberian Elm (southern)
Qf	Grey Oak
Qg	Oregon Ash
Qn	White Ash
Qw	Black Walnut, Hickory
Qz	Tree-of-heaven
Qk	Japanese Walnut
P	PINE
Pm	"Monterey Pine
Pn	Austrian Pine
Py	"Sugar 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	141-250
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
SI 00 are shown to the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. If the site is unsuitable for age and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX
SI is estimated when suitable SI trees aremit present, e.g. young stands (<30yrs). It is denoted by a slash which always precedes the estimated value. Estimated SI's 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
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- s SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- h HERBS - herb with no distinction between forbs and graminoids.
- hf HERBS - FORBS - herb with forbs > 50% of the herb cover.
- hg HERBS - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- bry 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 - LICHEN - bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUCK/FLAT SEDIMENT
ar	ROCK	i	ICE	mp	RUBBLY MINE SPOILS
bm	BLOCKFIELD	l	LAVA BED	oc	OCEAN
br	BEDROCK	ll	LANDING	ot	OTHER
ca	CULTIVATED AREA	m	MARINE LAKE SEDIMENTS	rc	ROCK COVER
cu	CUTBANK	ng	OPEN FIT SAND	re	RESERVOIR
ea	EXPOSED SOILS	nn	MORAINE	r	RIVER / STREAM
gl	GLACIER				

mm	RESERVOIR MARGIN	ea	Exposed Land
rm	RAILWAY SURFACE	rk	Rock / Rubble
rs	ROAD SURFACE	w	Snow / Ice
s	SAND		
tl	TAILINGS		
ur	URBAN		

Note: Water categories (ia, oc, re, r) not labelled over 50 percent coverage.

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

A	ALPINE	NP	NON-PRODUCTIVE	SAND	SAND
AT	ALPINE TUNDRA / Species	NPBR	NON-PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
C	CLAY BELT	NPF	NON-PRODUCTIVE FOREST	W	WATER
CL	CLAY BANK	NPF	NON-PRODUCTIVE FOREST / Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
I	ICEFIELD	R	ROCKY	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	r	HAYFIELD	NP	NON PRODUCTIVE
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	NTA	NO TYPING AVAILABLE

Line 6 - Disturbance History

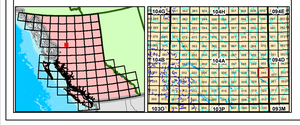
Disturbance type code preceeded by symbol, followed by earliest date.
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

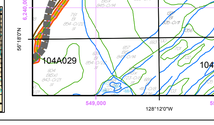
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of 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
- STANDARD UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH





Overflow Labels

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