092I052

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
092I052

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
- Silviculture Opening or Vegetation
- Permanent Sample Plot (VRI3)
- 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
- Hydrolin-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 (1:600,000 fea. < 15 % hatch)
- Municipal boundary (1:600,000 fea.: 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
ex. the most important layer is described as Fd (Douglas Fir) and Hw (Western Hemlock)
4 Age Class (1-9) and Site Index (A-Z) or Estimated Site Index (a-z)
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 Description)
ex. a herb polygon with no distinction between forbs and graminoids, shrubs less than 2m.
6 Disturbance History & year - ex: Logged in 1978

Line 1 - History Record Opening Number:

nnnn - opening number valid for BCGS 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 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)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Pj	Rocky Mtn. Juniper
Qs	Sequoia Juniper
L	LARCH
La	Subalpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Whitebark Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plj	Lodgepole x Jack Pine hybrid
Plc	Lodgepole Pine (coastal)
Ps	Shore Pine (coast)
Pw	Western White Pine
Py	Ponderosa 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
YEW	
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	ARBUTUS
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Ac	Black Cottonwood
Ap	Balsam Poplar
Act	Black Cottonwood x Balsam Poplar hybrid
Ep	Paper Birch
Epe	Water Birch
E	BIRCH
Ea	Alaska Paper Birch
Ew	Water Birch (white)
Ewr	Water Birch (red)
G	CASCARA
Ku	CHERRY
Kc	Choke Cherry
Ky	Pin Cherry
Kp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Broadleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wr	Peachleaf Willow (Bonby's)
Ww	Pussy Willow (grey leaved)
Wy	Scouler's Willow
Ws	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

	APPLE
Ua	Apple sp.
Act	ASPEN, COTTONWOOD or POPLAR
Ad	Southern Cottonwood
	BIRCH
Be	European Birch
Bp	Swedish Birch (cv. pendula)
Ey	Yellow Birch
	CHERRY
Ys	Sweet Cherry
	CYPRESS
Yo	Hinoki Cifard Cedar
	LARCH
Ble	Eastern Larch
Lx	Hybrid Larch
Lyl	Siberian Larch
Lo	Tamarack
Me	Box Elder
Mr	Norway Maple
Mp	Sycamore Maple
	OAK
Qe	English Oak
Qr	Red Oak
	OTHER EXOTICS
Oe	Incense Cedar
Oi	Giant Sequoia
Ok	Coast Redwood
Oe	European Mountain Ash
Oa	Mountain Ash (Rowan)
Of	Common Pear
Og	Oregon Ash
Ot	Tree of Heaven
Oj	Japanese Walnut
	PINE
Pn	Monterey Pine
Pp	Ponderosa Pine
Pa	Scots 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	141-200
9	201+

4d SITE INDEX
SI's are shown to 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 either, or reduce the SI.

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 19.4
3	19.5 - 27.4
4	28.5 - 37.4
5	37.5 - 46.4
6	46.5 - 55.4
7	55.5 - 64.4
8	65.5 +

4e. ESTIMATED SITE INDEX
SI is estimated when suitable SI trees cannot present, e.g. young stands (<30yrs). It is denoted by a dash which always follows the leading species. Estimates in the data base are inventory type Group and SI Estimated Index.

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

Line 5 - Vegetation records

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

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

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

NON-TREED MOSS/LICHEN
- bry - BRYOID - 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
- r - Rock / Rubble
- w - Water
- s - Snow / Ice

NON VEGETATED CATEGORIES (for V and I records)

ag	AGRICULTURE	mf	MUDFLAT SEDIMENT
be	BEACH	ml	LAKE
bl	BLOCKFIELD	mr	LAKE-RIVER
bu	BUILT-UP AREA	ms	POND or LAKE SEDIMENTS
bu	BURNED AREA	mi	OPEN PIT MINE
cb	CUTBANK	mq	RIVER / STREAM
cs	CUTOVER (SOIL)		
gc	GLACIER		

mr	RESERVOIR MARGIN
mr	RAILWAY SURFACE
ro	ROAD SURFACE
ro	ROAD SURFACE
ta	TALUS
tz	TIDAL ZONE
u	URBAN

Note: Water categories (lk, ou, re, rl, rv) all labelled over 98 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE
AT	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH
CL	CLAY BANK	NPBS	NON PRODUCTIVE SHRUB
CP	CLAY BANK / GRAVEL BAR	NPFL	NON PRODUCTIVE FOREST /Species
CR	CRAVEL PIT	NTA	NO TYPING AVAILABLE
DE	DELTA	OR	OPEN RANGE
ES	ESTUARY	R	ROCK
M	MEADOW	RO	ROCK
MF	MUD FLAT	SWAMP	

SAND	SAND		
TIDE	TIDAL FLAT		
U	URBAN		
		NCM	NON COMMERCIAL
		NCMB	NON COMMERCIAL BRUSH
		NP	NON PRODUCTIVE
		NSR	NOT SUFFICIENTLY RESTOCKED
		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.

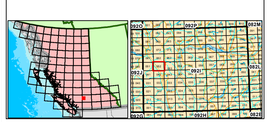
A	Animal Damage	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
		R	Site Rehabilitation
		T	Treatment Injuries
		U	Damage Unknown
		V	Problem Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either MF 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 ID
OPENING LABEL
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH



Overflow Labels

092I052