092K012

Vegetation Map
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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 2 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
- Soil/Terrain Opening or Vegetation
- Permanent Sample Plot (VRI)
- Research Installations

TRIM, Base Features:
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- AirFerries
- Other Lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aq-Barriers - ESRI
- Watercourses - ESRI
- Waterbodies - ESRI
- Wetlands - ESRI
- Ocean - ESRI

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:

	LINE DESCRIPTION
O,I2	1 Silviculture symbol and Opening Number
E1,P1	2 Polygon Number and multi-layer stand indicator (L)
Cw 60	3 Species Composition
Hw 20	4 Age, Height, Crown Closure Class Code - separator: Site Index / estimated SI
Fd 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
Cw/9	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
- nnnn - 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 dated 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
Hmw	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Jsc	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lw	Western Larch
P	PINE
Pl	Lodge Pine
Pli	Lodgepole Pine
Plc	Lodgepole (Coastal)
Plx	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pa	Whitebark Pine
Pw	Western White Pine
Pa	Whitebark Pine
Prc	Red Pine
Ss	Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sxw	White Spruce
Sx	Spruce hybrid
Sxl	Sitka x Lutz Spruce
Sxs	Sitka x White
Sxs	Sitka x unknown hybrid
Sxw	White x Lutz
Sx	Western Yew

NATIVE HARDWOODS

A	ALDER
Dr	Red Alder
Ds	Sitka Alder
Ua	Pacific Coast Alpine
A	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Abb	Balsam Poplar
Abl	Black Cottonwood
Ae	Trembling Aspen
At	Trembling Aspen
B	ARBUTUS
Bp	Pacific
E	BIRCH
Ea	Alaska Paper Birch
Eap	Alaska Paper Birch hybrid
Ep	Paper Birch
K	CASCARA
Kc	Cascara
C	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Gg	Garry Oak
Q	OAK (Other)
Wb	Bebb's Willow
Wp	Pacific Willow
Wpu	Peachleaf Willow (Bartilly's)
Wr	Prairy Willow (gray-leaved)
Ww	Willow (Other)
Wlh	Sitka Willow (rock-leaved)

UNKNOWN - OTHER

Au	unknown alder
Al	unknown conifer
Ah	unknown hardwood
Ax	unknown (did not set key)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ua	APPLE
	ASPEN, COTTONWOOD or POPLAR
Ae	*Trembling Aspen
At	*Southern Cottonwood
E	BIRCH
Ep	*European Birch
Ey	*Yellow Birch (examp)
Ey	*Yellow Birch
Ka	CHERRY
Y	CYPRESS
Yt	*Port Orford Cedar
Yn	*Nootka Cy
Yn	*Nootka Fir
Bb	Noble Fir
Bm	*Amabilis Red Fir
Bm	*Alpha Fir
L	LARCH
Lk	*Siberian Larch
Lk	*Siberian Larch
M	MAPLE
Mp	*Norway Maple
Mr	*Sycamore Maple
Oa	OAK
Oa	*English Oak
Oa	*White Oak
O	OAK (Other)
Oc	*Chestnut Cortor
Oc	*Coast Sequoia
Oc	*Coast Redwood
Oc	*Dawn Redwood Ash
Oc	Siberian Elm (southern)
Oc	Common Pear
Oc	Oregon Ash
Oc	*Black Locust
Oc	*Osagberre Hickory
Oc	*Tree-of-heaven
Oc	*Japanese Walnut
P	PINE
Pn	*Monterey Pine
Pp	*Ponderosa Pine
Ps	*Sugar Pine
S	SPRUCE
Sr	*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

All SI are shown to the nearest metre referenced at 50 years breast height age. If an SI is derived from a tree species having survey data, then an actual SI opinion is derived 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. deciduous stands. The SI Estimated Source Code in the data base provides the Associated Site Index in the data base as 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
- sl - shrub, with average shrub height > or = to two metres.
- sl - shrub with average shrub height < two metres.

NON-TREED HERB
- he - HERB
- hf - HERB - FORBS
- hg - HERB - GRAMINOIDS

NON VEGETATED
- r - Rock / Rubble
- rl - Rock / Rubble
- w - Snow / Ice

NON-TREED MYCOID
- bry - BRYOIDS
- bm - BRYOID - MOSS
- bl - BRYOID - LICHENS

- bryoid with no distinction between mosses and lichens by cover.
- bryoid with mosses, liverwrts, and hornworts > 50% of the bryoid cover.
- bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for V and I records)

ro	AIRPORT	gp	GRAVEL PIT	mp	MUD FLAT SEDIMENT
be	BEACH	lk	LAKE	my	RUBBLY MINE SPOILS
bl	BOULDERFIELD	lb	LAVA BED	rn	RIVER
s	BOULDERS	lk	LAKE	sn	SNOW
bu	BURNED AREA	lk	POND on LAKE SEDIMENTS	pn	SNOW COVER
cl	CLIFF/BLUFF	lo	OPEN PIT MINE	sn	SNOW/ICE
cs	CUTBANK/SOILS	rn	RIVER	rn	RIVER / STREAM
gl	GLACIER				

Note: Water categories (lk, rn, rl) not labelled over 80 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST -Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
F	FOREST	NPF	NON PRODUCTIVE FOREST -Species		
G	GRAVEL BAR	NR	NOT TYPING AVAILABLE		NON COMMERCIAL
GR	GRAVEL PIT	OK	OPEN RANGE	NCBR	NON COMERCIAL BRUSH
M	MEADOW	R	ROCK	NCBU	NON COMMERCIAL BURN
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
SW	SWAMP/MUSKEG		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.

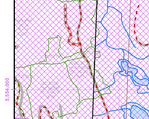
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Trespass Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
	Insects				

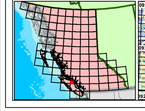
Example Opening History Details

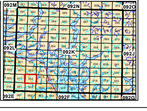
Detailed Silviculture information is available on the BCGW utilizing either MF or ArcMap. The MapView example is of themed RESULTS data.

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
OPENING LABELS
SILVICULTURE TREATING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH







092K021 092K022 092K023 092K011 092K012 092K013 092K001 092K002 092K003

4-12 4-13 4-14 4-16 4-17 4-18 4-19 4-20 4-21 4-22

TFL39

SAYWARD DISTRICT
Campbell River Natural Resource District

Overflow Labels