093E029

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093E029

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 displayed on this map is not intended to represent definitive 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 (CFS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airstrips
- Other Area
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Bar/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

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
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, 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 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: Stocking is well spaced, trees, shrubs, forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1978

Line 1 - History Record Opening Number

nnnn - 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 4.6 dataed January 2009.

NATIVE CONIFERS
- C CEDAR
- Cw Western Red Cedar
- Y CYPRESS
- Yc Yellow Cedar
- D DOUGLAS FIR
- Fd Douglas Fir
- Fdi Coastal Douglas Fir
- Fdc Interior Douglas Fir
- B FIR (Balsam)
- Ba Amabilis Fir
- Bg Grand Fir
- Bl Subalpine Fir (alpine)
- H HEMLOCK
- Hm Mountain Hemlock
- Hw Western Hemlock
- Hwk Western Hemlock hybrid
- J JUNIPER
- Jr Rocky Mtn. Juniper
- Js Scopulorum Juniper
- L LARCH
- La Alpine Larch
- Lt Tamarack
- Lw Western Larch
- P PINE
- Pa White Pine
- Pf Limber Pine
- Pl Lodgepole Pine
- Plc Lodgepole (contorta)
- Plx Lodgepole x Jack Pine hybrid
- Py Ponderosa Pine (yellow)
- Pw Western White Pine
- Pxj Pine x Jack Pine
- Pxw Whitebark Pine
- S SPRUCE
- Sb Black Spruce
- Se Engelmann Spruce
- Sx Sitka Spruce
- Sw White Spruce
- Sxe Spruce hybrid
- Sxw Engelmann x White
- Sxl Sitka x White
- Sxs Sitka x white/sw hybrid
- T YEW
- Tw Western Yew

NATIVE HARDWOODS
- D ALDER
- Dr Red Alder
- U APPLE
- Up Pacific Crab Apple
- At ASPEN, COTTONWOOD or POPLAR
- Ac Poplar
- Act Black Cottonwood
- Ati hybrid Poplars
- Aw Trembling Aspen
- E ARBUTUS
- Ew Arbutus
- Ep Paper Birch
- Eap Alaska x Paper Birch hybrid
- Ea Alaska Birch (white)
- Ey Alder Birch
- K CASCARA
- G DOGWOOD
- V CHERRY
- Vb Bitter Cherry
- Vc Choke Cherry
- Vp Pin Cherry
- Q OAK
- Qg Garry Oak
- W WILLOW
- Wb Bebb's Willow
- Wp Pacific Willow
- Wr Peachleaf Willow (Bambo's)
- Ww Pussy Willow (grey-leaved)
- Wy Scouler Willow
- Ww Sitka Willow (low-leaved)

UNKNOWN - OTHER
- A unknown alder
- At unknown conifer
- Xh unknown hardwood
- Z OTHER (tree not on list)
- Zz other conifer
- Zh other hardwood

EXOTICS
- Ax ASH
- Ap Apple
- At ASPEN, COTTONWOOD or POPLAR
- Act Black Cottonwood
- Ai BIRCH
- Be European Birch
- Bp Alaska Birch (swamp)
- Ey Yellow Birch
- V CHERRY
- Vs Sweet Cherry
- Y CYPRESS
- Yo *Port Orford Cedar
- Ye *Nootka Cedar
- Fb *Subalpine Fir
- Bp Noble Fir
- Fg *Grand Red Fir
- Bm White Fir
- L LARCH
- Lk *European Larch
- Lj *Japanese Larch
- M MAPLE
- Mb Box Elder
- Mr *Norway Maple
- Mb Broadleaf Maple
- OA OAK
- Qe *English Oak
- Qm *Garry Oak
- OTHER EXOTICS
- Ce *Incense Cedar
- Cp *Monterey Cedar
- Cc *Coast Redwood
- Cd European Mountain Ash
- Ca *Mountain Ash (southern)
- Cr Common Pear
- Cp Oregon Ash
- Cw *Western Ash
- D *Douglas's Hickory
- G Tree-of-Heaven
- Gn *Japanese Walnut
- PINE
- Pm *Monterey Pine
- Pn *Austrian Pine
- Pr *Sugar 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 - 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 +

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 is a calculation of 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 data, estimates within +/- or -/+ 2 metres are SI.

4e ESTIMATED SITE INDEX
SI is estimated when suitable SI trees aremot present, e.g. young stands (<30yrs). It is denoted by a lower 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
- sp 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 HERB - herb with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOID - herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- b BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornwrts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- vf Exposed Land
- rs Rock / Rubble
- w Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)
- ap AIRPORT
- b BEACH
- br BLOCKFIELD
- br BEDROCK
- cb CRUSHED AREA
- cb CUTBANK
- ea EXPOSED SOILS
- gr GLACIER
- gp GRAVEL PIT
- l LAKE
- lb LAVA BED
- L LANDING
- ms MINERAL LAKE SEDIMENTS
- mx OPEN PIT MINE
- mm MORAINE
- mu MUDFLAT SEGMENT
- o OCEAN
- op OCEAN
- pl OTHER
- rc ROCK OUTCROP
- re RESERVOIR
- r RIVER / STREAM
- rm RESERVOIR MARGIN
- rp RIVER SPLICE
- rs RIVER SEGMENTS
- rd ROAD SURFACE
- s SAND
- ta TAILINGS
- ur URBAN

Note: Water categories (la, ob, re, rl, rs) labelled over 50 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I records)
- A ALPINE FOREST (Species NPBU NON PRODUCTIVE BRUSH
- C CULTIVATED NPBU NON PRODUCTIVE BURN
- CP CROP NPFO NON PRODUCTIVE FOREST (Species
- G GRASSLAND NTA NOT TYPING AVAILABLE
- GR GRAVEL PIT OR OPEN RANGE
- H HAYFIELD P HAYFIELD
- MUD MUD FLAT S SWAMP
- SAND SAND
- SOIL TIDAL FLAT
- U URBAN
- MJ NON COMMERCIAL
- NCBR NON COMMERCIAL BRUSH
- NP NON PRODUCTIVE
- NSR NOT SATISFACTORILY RESTOCKED
- NTA NOT 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.

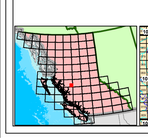
- A Animal Damage
- B Wildfire
- D Disease and Seed Insects
- E Diseases
- I Insects
- L Logging
- M Mite Damage
- N Non-Biological Injuries
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

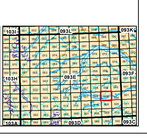
Example Opening History Details

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 SILPVIEW 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





Overflow Labels

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