093G013

# Vegetation Map
# 093G013

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 / 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
- Structure Opening in Vegetation
- Permanent Sample Plot - (SYS)
- Research Installations

**TRIM_Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airl Fields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydr/Man/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 (Dougls 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: 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**

'xxxx' - opening number valid for BCGS mapsheet '(xxx)' - 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 | Nootka Cypress |
| 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 |
| Jr | Rocky Mtn. Juniper |
| Js | Scopulus Juniper |
| L | LARCH |
| La | Subalpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pa | Jack Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole Pine (coastal) |
| Pxj | Ponderosa Pine x Jack Pine hybrid |
| Pxy | Ponderosa Pine (yellow) |
| Pw | Shore Pine (coastal) |
| Pyc | Ponderosa Pine (red) |
| Pw | Whitebark Pine |
| S | SPRUCE |
| Sa | Alaska Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce Hybrid |
| Sxe | Engelmann x White |
| Sxl | White x Lutz |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| A | ALDER |
| Ar | Red Alder |
| U | APPLE |
| Ue | Pacific Crab-Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| At | Poplar |
| Ae | Trembling Aspen |
| Ac | Black Cottonwood |
| Ax | hybrid Poplars |
| Ae | Trembling Aspen |
| Ep | (Paper Birch (white) |
| Ew | Water Birch |
| Ac | CASCARA |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Ekp | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| Ac | CASCARA |
| E | BIRCH |
| V | CHERRY |
| Vs | Bitter Cherry |
| Vy | Choke Cherry |
| Vu | Pin Cherry |
| D | DOGWOOD |
| Dp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Mv | Vine Maple |
| O | OAK |
| Og | Garry Oak |
| W | WILLOW |
| Wp | Pacific Willow |
| Wp | Pacific Willow |
| Wa | Peachleaf Willow (Barclay's) |
| Wr | Rocky Mtn. Willow (Hooker) |
| Ws | Scouler's Willow |
| Wt | Sitka Willow (tea-leaved) |
| X | UNKNOWN - OTHER |
| X | UNKNOWN |
| Xc | other coniferous |
| Xh | unknown hardwood |
| Z | OTHER (tree not on list) |
| Zc | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| E | BIRCH |
| Ue | Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Aol | Western Cottonwood |
| E | BIRCH |
| Ea | European Birch |
| Es | Silver Birch (swamp) |
| Ey | Yellow Birch |
| F | FIR |
| Fs | Sweet Cherry |
| Y | CYPRESS |
| Yn | Nootka Cedar |
| Yp | Fir (Subalpin) |
| Bb | "Balsam Fir |
| Bc | "Grand Fir |
| Bm | "Shasta Red Fir |
| Bc | "White Fir |
| L | LARCH |
| Lk | "Siberian Larch |
| Lyl | "Siberian Larch |
| M | MAPLE |
| Mr | Box Elder |
| Mb | "Bigleaf Maple |
| Mp | "Norvarian Maple |
| OAK | |
| Qr | "English Oak |
| Qe | "White Oak |
| OTHER EXOTICS | |
| Ch | "Sweet Chestnut |
| Qs | "Giant Sequoia |
| Ox | "Coast Redwood |
| Fr | "European Mountain Ash |
| Fo | Siberian Elm (ieuiberch) |
| Of | Common Pear |
| Ot | "Tree of Heaven |
| Ok | "White Ash |
| Ot | "Shagbarck Hickory |
| Ob | "Black Walnut |
| Oj | Japanese Walnut |
| PINE | |
| Pm | "Monterey Pine |
| Pr | "Red Pine |
| Pv | "Austrian 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 - 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. SI may be site curve based or from height sweep branches. 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 arenot present; e.g. recent cutblocks. The SI is based on the site series 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 record4s)**

**NON-TREED SHRUB**
- s SHRUB - shrub with average shrub height > or = to two metres.
- d SHRUB, Low - 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 BRYOID**
- b BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverwrts, and hornwarts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NON VEGETATED**
- r ROCK
- rr Rock / Rubble
- w Snow / Ice

**NON-VEGETATED CATEGORIES (for V and I record4s)**

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| b | BURN | h | HEAD | ms | MUSKEG / MIRE SPOILS |
| bl | BLOCKFIELD | k | LAKE BED | oc | OCEAN |
| br | BEDROCK | l | LANDING | ol | OTHER |
| cb | CONSOLIDATED AREA | ls | LAKE SEDIMENTS | or | ORCHARD / COVER |
| cu | CUTBANK | m | OPEN MINE | re | RESERVOIR |
| es | EXPOSED SOILS | mr | MORAINE | r | RIVER / STREAM |
| gl | GLACIER | | | | |

Note: Water categories (la, ra, re, rl) not labelled over 50 percent coverage.

| | | | | | |
|---|---|---|---|---|---|
| rm | RESERVOIR MARGIN | | | | |
| ri | RIVER / STREAM | | | | |
| rs | RIVER SEDIMENTS | | | | |
| rz | ROAD SURFACE | | | | |
| s | SLIDE | | | | |
| ta | TAILINGS | | | | |
| ur | URBAN | | | | |

**NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F record4s)**

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | NP | NON PRODUCTIVE | BAND | SAND |
| AT | ALPINE FOREST / tipeces | NPBR | NON PRODUCTIVE BRUSH | TIDE | TIDAL FLAT |
| C | CLIFF | NPBS | NON PRODUCTIVE BROWSE | U | URBAN |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST /Species | | |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| I | ICEFIELD | R | ROCKY | NPBR | NON PRODUCTIVE BRUSH |
| KE | KEFFIELD | H | HAYFIELD | NP | NON PRODUCTIVE |
| M | MEADOW | n | ROCK | NSR | NOT SUFFICIENTLY RESTOCKED |
| MO | MUDFLAT | S | SAND | NTA | NOTTYPING 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.

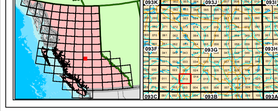
| | | | | | |
|---|---|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| B | Wildfire | M | Mile Damage | T | Treatment Injuries |
| C | Cone and Seed Insects | N | Non-Biological Injuries | U | Damage Unknown |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |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

**Example Opening History Details**

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

The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select "Forest Cover" 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