093F012

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
# 093F012

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
- Soricture Opening in Vegetation
- Permanent Sample Plot (CYS)
- Research Installations

**TRIM, Base Features:**
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Fairlies
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofea/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:**

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: a 121-140 year old stand, 25.5 - 28.4 metres high, crown closure class 1 (6-15%), SI 20m
5 Vegetated Sandy 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**

cccc - opening number valid for BCGS mapsheet ssss - 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 | YEW |
| 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 | Hemlock x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mt. Juniper |
| Js | Seaside Juniper |
| L | LARCH |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (coastal) |
| Pli | Lodgepole Pine (interior) |
| Plx | Lodgepole x Jack Pine hybrid |
| Pxj | Hardcross Pine (interior) |
| Pxl | Lodgepole x Jack Pine hybrid |
| Pw | Western White Pine |
| Pyc | Shore Pine (coast) |
| Pyi | Western White Pine |
| Pw | Whitebark Pine |
| Py | Ponderosa Pine (interior) |
| Pyc | Shore Pine (coast) |
| Pw | Western White Pine |
| Pwb | Whitebark Pine |
| Pw | Western White Pine |
| Pyi | Ponderosa Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Sw | Western White Spruce |
| Sx | White Spruce |
| Sxl | Spruce hybrid |
| Sxw | Hybrid White Spruce |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| Sx | Sitka Spruce |
| Yc | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| U | APPLE |
| Ax | ASPEN, Cotb Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Act | Balsam Poplar |
| At | Black Cottonwood |
| Ax | hybrid Poplars |
| Ae | Trembling Aspen |
| E | ARBUTUS |
| Ra | Arbutus |
| Ep | BIRCH |
| Ew | Alaska x Paper Birch hybrid |
| Ea | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| E# | Water Birch |
| Ey | Yellow Birch |
| K | CascaraK |
| V | CHERRY |
| Vb | Black Cherry |
| Vv | Choke Cherry |
| Vp | Pin Cherry |
| Vu | Unknown |
| M | Rarfia Osgwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Mv | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| Qx | Oak hybrid |
| W | Sadd's Willow |
| Wp | Pacific Willow |
| Wb | Bebb's Willow (Bartday's) |
| Ww | Pussy Willow (pby-leaved) |
| Ws | Scouler's Willow |
| Wl | Sitka Willow (lea-leaved) |

**UNKNOWN - OTHER**

| | |
|---|---|
| X | unknown |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Xs | unknown shrub (not on list) |
| O | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| U | APPLE |
| Ua | Apple |
| Au | ASPEN, COTTONWOOD or POPLAR |
| Act | Balsam Cottonwood |
| B | BIRCH |
| Ev | European Birch |
| Ep | Paper Birch (exotic) |
| Ey | *Yellow Birch |
| Y | CHERRY |
| Yv | *Choke Cherry |
| C | CYPRESS |
| Yp | *Port Orford Cedar |
| Cw | *Red Cedar |
| Cp | Redwood |
| Bp | *Noble Fir |
| Bm | *Shasta Red Fir |
| Bc | *White Fir |
| L | LARCH |
| Lt | *Siberian Larch |
| Le | Tamarack |
| Mv | Box Elder |
| Mr | *Norway Maple |
| Mp | *Sycamore Maple |
| O | OAK |
| Qe | *English Oak |
| Qr | *Red Oak |
| | OTHER EXOTICS |
| Ot | *Incense Cedar |
| Ob | *Giant Sequoia |
| Ot | *Coast Redwood |
| Ot | *Monterey Cypress Ash |
| Ot | *Siberian Elm (southern) |
| Of | Common Pear |
| Ot | *Golden Rain |
| Oj | Japanese Walnut |
| P | PINE |
| Pm | *Monterey Pine |
| Pr | *Red Pine |
| Pu | *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 - 25.4 |
| 4 | 25.5 - 32.4 |
| 5 | 32.5 - 44.4 |
| 6 | 44.5 - 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 of dominant trees to 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 after, or replaces the SI.

**4e ESTIMATED SITE INDEX**
Site Index estimated from ecological data where cannot present, e.g. young stands (<30yrs). It is denoted by a slash 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 nacc(N))**

**NON-TREED SHRUB**
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- sm SHRUB MEDIUM - shrub with average shrub height < two metres.

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

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

**NON-VEGETATED CATEGORIES (for V and I nacc(N))**

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| be | BEACH | la | LAKE | mx | RUBBLY MINE SPOILS |
| bl | BOULDERS | lo | LOADING | ot | OTHER |
| br | BEDROCK | ll | LANDING | rf | OTHER |
| bu | BURNED AREA | lp | POND or LAKE SEDIMENTS | ps | SNOW COVER |
| cl | CLIFFS | mi | MINE SITE | ri | RIVER |
| es | EXPOSED SOILS | mo | MORAINE | r | RIVER / STREAM |
| gl | GLACIER | | | | |

Note: Water categories (la, ao, ls, rl) not labelled over 60 percent coverage.

| | | | | | |
|---|---|---|---|---|---|
| rm | RESERVOIR MARGIN | | | | |
| rw | RAILWAY SURFACE | | | | |
| ro | ROCK OUTCROP | | | | |
| rs | ROAD SURFACE | | | | |
| tl | TALUS | | | | |
| un | UNCONSOL | | | | |
| ur | URBAN | | | | |

**NON FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I nacc(N))**

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | NP | NON PRODUCTIVE | SAND | SAND |
| FOR | NON FOREST /Species | NPBR | NON PRODUCTIVE BRUSH | TIDE | TIDAL FLAT |
| G | GLACIATED | NPBU | NON PRODUCTIVE BURN | U | URBAN |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST /Species | | |
| GS | GRAVEL BAR | NTA | NOTYPING AVAILABLE | NC | NON COMMERCIAL |
| GR | GRAVEL PIT | OR | OPEN RANGE | NCBR | NON COMMERCIAL BRUSH |
| L | LAKE | R | ROCK | NF | NON FOREST |
| M | MEADOW | S | SNOW | NSR | NOT SUFFICIENTLY RESTOCKED |
| MUD | MUDFLAT | SI | 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.

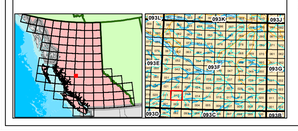
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mde Damage |
| C | Insects and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| | | R | Site Rehabilitation |
| | | T | Treatment Injuries |
| | | W | 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
OPENING - TREATMENT UNIT
STAMAMMOD UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH




Overflow Labels



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