093A059

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
# 093A059

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 compiled from VRIMS (Forest Cover), 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
- Inventory Opening in Vegetation
- Permanent Sample Plot (CFS)
- Research Installations

**TRIM. Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Aerials
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Ice/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 (Douglk 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 (0-10.4m), 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**

opening number valid for BCGS mapsheet — 0XXX - 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 |
| Yc | CYPRESS |
| Yc | Yellow Cedar |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| B | FIR (Balsams) |
| 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 | Scopulorum Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodge Pole |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole x Jack Pine hybrid |
| Pli | Lodgepole Pine (interior) |
| Pw | White Pine (spp) |
| Pw | Western White Pine |
| Pyb | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce Hybrid |
| Sxe | Engelmann x White |
| Sxs | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| Y | YEW |
| Yw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| U | APPLE |
| Up | Pacific Crab Apple |
| Ac | BALSAM, COTTONWOOD or POPLAR |
| Act | Poplar |
| Abl | Balsam Poplar |
| Abt | Black Cottonwood |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| E | BIRCH |
| Ep | ASH |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Eap | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| V | CHERRY |
| V | CHERRY |
| Vb | Bitter Cherry |
| Vc | Choke Cherry |
| Vp | Pin Cherry |
| Vv | Mountain Cherry |
| G | 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 |
| Wk | Peachleaf Willow (Bankley's) |
| Wr | Red Willow (Drummond's Harvest) |
| Ws | Scouler's Willow |
| Wf | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

| | |
|---|---|
| X | UNKNOWN |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Z | OTHER (time not on list) |
| Zc | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| Uw | APPLE Apple |
| Act | ASPEN, COTTONWOOD or POPLAR *Southern Cottonwood |
| Ae | European Birch |
| Ea | Silver Birch (swamp) |
| Ep | Paper Birch |
| Vs | CHERRY Sweet Cherry |
| Yp | CYPRESS *Pond Cypress |
| Fb | FIR (Balsam) |
| Bs | *Balsam Fir |
| Bg | Noble Fir |
| Bc | *Grand/Noble Fir |
| Larch | LARCH |
| Lsl | *Siberian Larch |
| Lx | *Siberian Larch |
| Mr | MAPLE Box Elder |
| Mh | *Norway Maple |
| Mp | *Sycamore Maple |
| Qa | OAK *English Oak |
| Qw | *Red Oak |
| Oe | OTHER EXOTICS |
| Ce | *Incense Cedar |
| Cn | *Deodar Cedar |
| Cs | *Coast Redwood |
| Ot | European Mountain Ash |
| Ol | Siberian Elm (southern) |
| Ot | Common Pear |
| Ou | *Black Ash |
| Qe | *White Ash |
| Qr | *Shagbarck Hickory |
| Qs | *Shingle Oak |
| Qa | Japanese Walnut |
| Pine | PINE |
| Pm | *Monterey Pine |
| Pr | *Red Pine |
| Py | *Sugar Pine |
| Spruce | 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**

Site Index is 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 after, or replaces the SI.

**4e ESTIMATED SITE INDEX**

SI Estimated codes are used where trees are absent present, e.g. young stands (<30cm). 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 records)**

**NON TREED SHRUB**
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- u 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 - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

**NON TREED BRYOID**
- by BRYOID - 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**
- ar Exposed Land
- sn Permanent Snow
- w Snow / Ice

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

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUCK/FLAT SEDIMENT |
| be | BEACH | lk | LAKE | mi | RUBBLY MINE SPOILS |
| bl | BLOCKFIELD | la | LAKE BED | ro | ROAD |
| bu | BUILDING | sa | SAND | rd | OTHER |
| bu | BUILDING AREA | la | SAND IN LAKE SEDIMENTS | sn | SNOW COVER |
| cu | CUTBANK | rm | OPEN PIT MINE | re | RESERVOIR |
| es | EXPOSED SOILS | mn | MORAINE | r | RIVER / STREAM |
| gl | GLACIER | | | | |

mm RESERVOIR MARGIN
rm RAILWAY SURFACE
rn RAILWAY CUTTINGS
ro ROAD SURFACE
tw TALUS
ta TAILINGS
ur URBAN

Note: Water categories (la, ss, re, r) not labelled over 95 percent coverage.

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

| | | | |
|---|---|---|---|
| AF | ALPINE FOREST | NPBR | NON PRODUCTIVE BRUSH |
| AP | ALPINE FOREST /Species | NPBS | NON PRODUCTIVE BURN |
| C | CULTIVATED | NPBU | NON PRODUCTIVE BURN |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST /Species |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE |
| I | ICEFIELD | P | PASTURE |
| ICE | ICEFIELD | P | HAYFIELD |
| M | MEADOW | R | ROCK |
| MO | MUCK FLAT | S | SWAMP |

SAND SAND
TIDE TIDAL FLAT
U URBAN

NC NON COMMERCIAL
NPBR NON PRODUCTIVE BRUSH
NP NON PRODUCTIVE
NSR NOT SUFFICIENTLY RESTOCKED
NTA NO TYPING AVAILABLE

**Line 6 - Disturbance History**

Disturbance type code preceded by symbol, followed by earliest date.
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

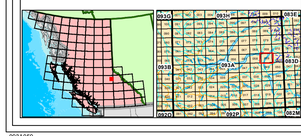
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Burn | M | Mite Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| R | Site Rehabilitation | | |
| T | Treatment Injuries | | |
| U |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

**Example Opening History Details**

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

The Ministry of Forests, Mines and Lands web application VRIMS can be used 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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