082K027

# Vegetation Map
# 082K027

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 / Terrain

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 (VRI)
- Research Installations

**TRIM - Base Features:**
- Air Rail Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails Cutlines
- Railroads
- Air Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolkwdlands - 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 Licences - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (> 1,000,000 ha) - (5 % hatch)
- Municipal boundary (< 1,000,000 ha) - no hatch)
- National Parks
- First Nations
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreation Areas

**Other:**
- MCDS Mapsheet 0-14 (1:20,000)

## VEGETATION LABEL DETAILS

**Example of a Vegetation Label:**

```
CE  1 Cc 6 5 L
Ep  2 Fd 5 4 M
Cw  3 Hw 3 3 D
Hw  4 Cw 2 2 D
Fd  5 Ep 1 1 D
```

LINE DESCRIPTION:
1. Silviculture symbol and Opening Number
2. Polygon Number - 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 m), crown closure class 1 (6-15% ), SI 20m
5. Estimated Site Index - separator - estimated site series
   ex. a fen polygon with no distinction between forbs and graminoids, shrubs less than 2m.
6. Disturbance History & year - ex: Logged in 1978

**Line 1 - History Record Opening Number**

-opening number / and for RESS mapsheet — ZERO -opening number has not been assigned

**Line 2 - Polygon No. / Multilayer**

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**

| | |
|---|---|
| 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 |
| Hwk | Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Jd | Utah Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole x Jack Pine hybrid |
| Pm | Mountain Pine (Alpine) |
| Pp | Shore Pine (coast) |
| Pw | Western White Pine |
| Pxj | Ponderosa Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Hybrid Spruce |
| Sxe | Englelmann x White |
| Sxl | Sitka x White |
| Sxw | White x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | BROAD LEAF |
| E | Red Alder |
| U | APPLE |
| Ue | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| At | Trembling Aspen |
| Act | Black Cottonwood |
| Ax | Hybrid Poplars |
| Ae | Trembling Aspen |
| R | ARBUTUS |
| Rb | Arbutus |
| B | BIRCH |
| Ea | Alaska Paper Birch |
| Ew | Paper Birch White hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | Scouler's Birch |
| C | CHERRY |
| Cv | Choke Cherry |
| Cl | Pin Cherry |
| Cp | Bitter Cherry |
| Cp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Broadleaf Maple (broadleaf) |
| Ma | Vine Maple |
| Q | OAK |
| G | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wr | Peachleaf Willow (Bonsby's) |
| Ww | Pussy Willow (grey-leaved) |
| Wy | Sitka Willow |
| Wis | Sitka Willow (lace-leaved) |
| **UNKNOWN - OTHER** | |
| X | UNKNOWN |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Xs | unknown shrub (not tall) |
| Z | OTHER LAND |
| Zz | other hardwood |

**EXOTICS**

| | |
|---|---|
| A | APPLE |
| Ae | Apple |
| Ac | ASPEN, COTTONWOOD or POPLAR |
| Act | Northern Cottonwood |
| Be | European Birch |
| Bp | Silver Birch (swamp) |
| Ep | Paper Birch |
| | CHERRY |
| Yc | Sweet Cherry |
| Y | YEW |
| Yo | "Yew Other Cedar |
| F | FIR (Balsam) |
| Bb | "Balsam Fir |
| Bc | "Grand Fir |
| Bf | "Shasta Red Fir |
| Bn | White Fir |
| L | LARCH |
| Lc | "Siberian Larch |
| Le | Western Larch |
| P | PINE |
| Pa | Scots Pine |
| Pf | "Horvey Maple |
| Pn | "Japanese Maple |
| OM | |
| Qe | "English Oak |
| Qr | "Red Oak |
| | OTHER EXOTICS |
| Ov | "Incense Cedar |
| Ol | "Larch Other |
| Ov | "Coast Redwood |
| Ot | European Mountain Ash |
| Ou | "Japanese Mountain Ash |
| Oy | Common Pear |
| Oy | Dragon Ash |
| Oy | "Hawthorn |
| O | "Shagbark Hickory |
| Oj | Tree of Heaven |
| Ow | "Japanese Walnut |
| PINE | |
| Pm | "Monterey Pine |
| Pr | "Red Pine |
| Py | "Sugar Pine |
| SPRUCE | |
| Se | "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**

All SI are shown to the nearest metre referenced at 50 years breast height age. Where a site index is estimated from a nearby leading species, or where an accurate SI cannot be 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 are not present, e.g. non-forested sites. The SI is derived from the SIBEC database and provides it. Associated fields in the data base are inventory type Group and SI Estimated source code.

**Line 5 - Vegetation records**

**VEGETATED NON-TREE CATEGORIES (5a/ V and I on-ords)**

**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 - herb with no distinction between forbs and graminoids.
- hf HERB - FORB - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOID - 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 - MOSSES - bryoid with mosses > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NON-VEGETATED CATEGORIES (5b/ V and I on-ords)**

| | | | |
|---|---|---|---|
| ae | AIRPORT | gs | GRAVEL PIT |
| bl | BEACH | lk | LAKE |
| bo | BOULDERFIELD | lr | LAND RED |
| bu | BUCHEUS | l | LANDING |
| bu | BURNED AREA | lp | POND or LAKE SEDIMENTS |
| cl | CLIFF/BLUFF | mi | MINE |
| ic | ICEFIELDS/ICE | mn | MORAINE |
| gl | GLACIER | | |

| | | | |
|---|---|---|---|
| mu | MUDFLAT SEDIMENT | rm | RESERVOIR MARGIN |
| mp | RUBBLY MINE SPOILS | rr | RAILWAY SURFACE |
| ro | ROCK | rs | ROAD SURFACE |
| rl | OTHER | rz | ROAD SURFACE |
| pe | SNOW COVER | ta | TALUS |
| pi | PERM ICE | tz | TAILINGS |
| r | RIVER / STREAM | ur | URBAN |

Note: Water categories (re.us, re. rl) not labeled are 61 percent coverage.

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

| | | | |
|---|---|---|---|
| A | ALPINE | NP | NON-PRODUCTIVE |
| B | BOG / NON-FOREST-Species | NPBS | NON-PRODUCTIVE-BRUSH |
| C | CULTIVATED | NPBR | NON-PRODUCTIVE-BURN |
| CL | CLAY BANK | NPFT | NON PRODUCTIVE FOREST-Species |
| D | DUNE / DELTA | NA | NO TYPING AVAILABLE |
| GR | GRAVEL PIT | NOAV | NON-PRODUCTIVE |
| ICF | ICEFIELD | P | HAYFIELD |
| MU | MUDFLAT | R | ROCK |
| MUD | MUDFLAT | S | SWAMP |

| | | | |
|---|---|---|---|
| SAND | SAND | | |
| SILT | SILT | | |
| U | URBAN | | |
| NC | NON COMMERCIAL | | |
| NCBR | NON COMMERCIAL-BRUSH | | |
| NF | NON-PRODUCTIVE | | |
| NFBR | NON-PRODUCTIVE-RESTOCKED | | |
| 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.

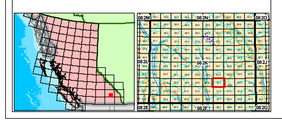
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mite Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Deciduous Insects | P | Cone and Seedling Fungal Pathogens |
| | | R | Site Rehabilitation |
| | | T | Treatment Injuries |
| | | U | Damage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

**Example Opening History Details**

Detailed Silviculture information is available on the BCGW utilizing either RIF 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 ID
OPENING LABEL
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels