094A070

# Vegetation Map
## 094A070

BRITISH COLUMBIA
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
- Silviculture Opening # Vegetation
- Permanent Sample Plot (GY3)
- Research Installations

**TRIM, Base Features:**
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/ermes
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aq/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
4 Age, Height, Crown Closure Class Code - separators: 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 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**

opening number used for BCGS mapsheet — *DOM* - 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 dated January 2009.

**NATIVE CONIFERS**

| | |
|---|---|
| Cw | WESTERN RED CEDAR |
| Y | CYPRESS |
| Y | YELLOW CEDAR |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| B | FIR (Balsam) |
| Bg | Grand Fir (coast) |
| Bg | Grand Fir |
| Bl | Subalpine Fir (alpine) |
| Bl | Alpine Fir |
| Hm | Mountain Hemlock |
| Hw | Western Hemlock |
| Hwk | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Seaside Juniper |
| L | LARCH |
| Lw | Western Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodge Pole |
| Plc | Coastal Pine |
| Pli | Lodgepole Pine (interior) |
| Plg | Lodgepole x Jack Pine hybrid |
| Pm | Mountain Pine (alpine) |
| Pw | Shore Pine (coast) |
| Pw | Western White Pine |
| Py | Ponderosa Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Engelmann x White |
| Sxs | Spruce hybrid |
| Sxs | Sitka x unknown hybrid |
| Ss | Sitka Spruce |
| Te | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| D | RED ALDER |
| U | APPLE |
| Ue | Pacific Crab Apple |
| Ax | ASPEN, COTTONWOOD or POPLAR |
| At | Poplar |
| Atm | Balsam Poplar |
| Atb | Black Cottonwood |
| Ac | hybrid Poplars |
| Ax | Trembling Aspen |
| E | BIRCH/ELM |
| Ea | Alaska Paper Birch |
| Eap | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| Ey | Yellow Birch |
| Ac | Cascara |
| Y | CHERRY |
| Yb | Bitter Cherry |
| Yc | Choke Cherry |
| Yp | Pin Cherry |
| Ys | Sweet Cherry |
| Dp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Dm | Broadleaf Maple (broadleaf) |
| Vm | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wa | Peachleaf Willow (Bebbs's) |
| Ww | Pussy Willow (grey-leaved) |
| Wr | Red Willow |
| Ws | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

| | |
|---|---|
| X | UNKNOWN |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Xs | unknown shrub (or tall alt) |
| O | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| Ue | APPLE |
| Ax | ASPEN, COTTONWOOD or POPLAR |
| Ad | Southern Cottonwood |
| Ae | European Birch |
| Ep | Paper Birch (swamp) |
| Yd | Black Cherry |
| | CHERRY |
| Ys | Sweet Cherry |
| | CYPRESS |
| Yo | Japanese Cedar |
| | Fir (Subalpine) |
| Bb | "Balsam Fir |
| Bc | "Corkbark Fir |
| Bm | "Sharp Red Fir |
| Bc | "White Fir |
| | LARCH |
| Lj | "European Larch |
| Ls | "Siberian Larch |
| | PINE |
| Ma | Box Elder |
| Mr | "Norway Maple |
| Mp | "Sycamore Maple |
| Qa | OAK |
| Qe | "English Oak |
| Qn | "Red Oak |
| | OTHER EXOTICS |
| Ot | "Incense Cedar |
| Ol | "Western Larch |
| Ob | "Coast Redwood |
| Oe | European Mountain Ash |
| Oa | "Japanese Mountain Ash |
| Or | Common Pear |
| Og | Oregon Ash |
| Ow | "Hawthorn |
| Oh | "Shagbarks Hickory |
| Ot | Tree-of-Heaven |
| Ow | "Black Walnut |
| | PINE |
| Pm | "Monterey Pine |
| Pn | "Austrian Pine |
| Ps | "Scots 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) |
|---|---|
| 1 | 0 - 5 |
| 2 | 6 - 15 |
| 3 | 16 - 25 |
| 4 | 26 - 35 |
| 5 | 36 - 45 |
| 6 | 46 - 55 |
| 7 | 56 - 65 |
| 8 | 66 - 75 |
| 9 | 76 - 85 |
| 0 | 86 - 100 |

**4d SITE INDEX**

All SI are shown to the nearest metre referenced at 50 years breast height age. SI is the average height of the dominant 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 is estimated when suitable SI trees cannot present, e.g. young stands, recent cutovers. The first letter of the code indicates precision; 5 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 record4)**

**NON-TREES SHRUB**
- st SHRUB TALL - shrub with average shrub height > or = to two metres.
- sl SHRUB LOW - shrub with average shrub height < two metres.

**NON-TREES 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-TREES 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**
- at Exposed Land
- r Rock / Rubble
- w Snow / Ice

**NON VEGETATED CATEGORIES (for V and I record4)**

| | | | | | |
|---|---|---|---|---|---|
| ag | AGRICULTURE | gp | GRAVEL PIT | mb | MUDFLAT SEDIMENT |
| ar | ARTIFICIAL | i | ICE | mp | RUBBLE / MINE SPOILS |
| bl | BLOCKFIELD | lk | LAVA BED | oc | OCEAN |
| bu | BUILT-UP AREA | ls | LANDSLIDE | rn | RIVER / STREAM |
| bu | BURNED AREA | lk | POND or LAKE SEDIMENTS | sn | SNOW COVER |
| cb | CUTBANK | mi | OPEN PIT MINE | re | RESERVOIR |
| cr | CULTIVATED FIELDS | mn | MORAINE | rs | RIVER / STREAM |
| cl | GLACIER | | | | |

ra RESERVOIR MARGIN
rw RAILWAY SURFACE
rg RIVER SEDIMENTS
rd ROAD SURFACE
tp TALUS
tl TALINGS
ur URBAN

**NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I record4)**

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | MF | NON-FORESTED FEN | SAND | SAND DUNES |
| AF | ALPINE FOREST (Species | NPBR | NON PRODUCTIVE BRUSH | TIDE | TIDAL FLAT |
| B | BOG | NPBS | NON PRODUCTIVE BRUSH | U | URBAN |
| C | CLAY BANK | NPF | NON PRODUCTIVE FOREST (Species | | |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| H | HERB/FORB | OP | OPEN | NPBR | NON PRODUCTIVE BRUSH |
| ICE | ICEFIELD | OPCON | OPEN CONIFER | NP | NON PRODUCTIVE |
| M | MEADOW | R | ROCK | NSR | NOT SUFFICIENTLY RESTOCKED |
| MUD | MUDFLAT | S | 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.

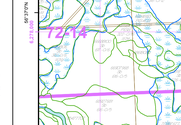
- A Animal Damage
- B Wildfire
- C Cone and Seed Insects
- D Diseases Needle
- L Logging
- M Mist Damage
- N Non-Biological Injuries
- P Cone and Seeding Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

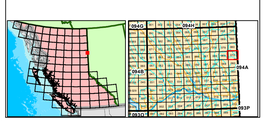
**Example Opening History Details**

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 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
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH




Overflow Labels



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