094G009

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
# 094G009

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 or Vegetation
- Permanent Sample Plot (VRI)
- Research Installations

**TRIM. Base Features:**
- 4x4/All Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Areas
- Other Man
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aa/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
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 than 2m.
6 Disturbance History & Age - ex. Logged in 1978

**Line 1 - History Record Opening Number**

nnnnn - opening number valid for RESIS mapsheet  zzzzx - 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 dataset January 2009.

**NATIVE CONIFERS**

| | |
|---|---|
| C | CEDAR |
| Cw | Western Red Cedar |
| Y | CYPRESS |
| Yc | Yellow Cedar |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| B | BALSAM |
| Ba | Amabilis Fir |
| Bg | Grand Fir |
| Bl | Subalpine Fir (alpine) |
| H | HEMLOCK |
| Hm | Mountain Hemlock |
| Hw | Western Hemlock |
| Hwm | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Sweetrie Juniper |
| L | LARCH |
| La | Subalpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole Pine (coastal) |
| Plc | Lodgepole x Jack Pine hybrid |
| Pli | Lodgepole x Jack Pine hybrid |
| Pp | Shore Pine (coast) |
| Pw | Western White Pine |
| Pwa | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce Hybrid |
| Sxe | Englemann x White |
| Sxl | Sitka x White |
| Sxw | White x unknown hybrid |
| YEW | |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| A | ALDER |
| Dr | Red Alder |
| Ds | Sitka Alder |
| Ap | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| At | Aspen |
| Act | Balsam Poplar |
| Ad | Black Cottonwood |
| Ae | Trembling Aspen |
| Ah | Trembling Aspen |
| B | ARBUTUS |
| Mb | Pacific |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Ep | Paper Birch (Alaska hybrid |
| Ep | Paper Birch (Variable) |
| Ew | Water Birch |
| Ey | Yellow Birch |
| Ke | Cascara |
| V | CHERRY |
| Vb | Black Cherry |
| Vc | Choke Cherry |
| Vp | (Pin Cherry) |
| Vu | (Unidentified) |
| Gp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mv | Broadleaf Maple (broadleaf) |
| Mb | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wr | Peachleaf Willow (Bartsia's) |
| Ww | Pussy Willow (gray-leaved) |
| Wy | Scouler's Willow |
| Wi | Sitka Willow (blue-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| AP00 | |
| Ux | ASPEN, COTTONWOOD or POPLAR |
| Act | Balsam Poplar |
| At | Aspen |
| E | BIRCH |
| Ep | Paper Birch |
| Ey | *Yellow Birch |
| Ew | Water Birch |
| Y | CYPRESS |
| Yc | *Yellow Cedar |
| F | FIR (Balsam) |
| Bk | *Balsam Fir |
| Bg | *Grand Fir |
| Bp | *Amabilis Fir |
| Bl | *White Fir |
| L | LARCH |
| Lk | *Dahurian Larch |
| Ls | *Siberian Larch |
| Lt | Tamarack |
| Ab | Box Elder |
| Mb | *Norway Maple |
| Mp | *Japanese Maple |
| Oc | Oak |
| Qe | *English Oak |
| Qr | *Red Oak |
| | OTHER EXOTICS |
| Ox | *Incense Cedar |
| Oy | *Monkey Puzzle |
| Ob | *Coast Redwood |
| Oz | European Mountain Ash |
| Ou | *Japanese Mountain Ash |
| Oh | Common Pear |
| Oq | Oregon Ash |
| Ow | *Black Walnut |
| Oy | *Doughlasia Hickory |
| Oj | Tree-of-heaven |
| Ot | *Japanese Walnut |
| PINE | |
| Pm | *Monterey Pine |
| Pn | *Austrian Pine |
| Pp | *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 - 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 |
| 7 | 6 - 15 |
| 2 | 16 - 25 |
| 7 | 26 - 35 |
| 3 | 36 - 45 |
| 4 | 46 - 55 |
| 5 | 56 - 65 |
| 6 | 66 - 75 |
| 7 | 76 - 85 |
| 8 | 86 - 100 |

**4d SITE INDEX**
Site Index is 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**
An estimated site index based on the species present, e.g. young stands (<50yrs). It is intended to a stand 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**
- sw SHRUB TALL - shrub with average shrub height > or = to two metres.
- st SHRUB LOW - shrub with average shrub height < two metres.

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

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

**NON VEGETATED**
- el Exposed Land
- rs Rock / Rubble
- ss Snow / Ice

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

| | | | | | |
|---|---|---|---|---|---|
| ea | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| ar | ANTHROPOGENIC | ls | LAKE | mp | MUNICIPAL SPOILS |
| bl | BLOCKFIELD | la | LAVA BED | oc | OCEAN |
| br | BEDROCK | lk | LANDING | ot | OTHER |
| cb | CONSOLIDATED | ms | MINERAL SAND SEDIMENTS | pc | PERMANENT SNOW |
| cl | CUTBANK | mp | OPEN PIT MINE | re | RESERVOIR |
| es | EXPOSED SOILS | mo | MORAINE | r | RIVER / STREAM |
| gl | GLACIER | | | | |

| | |
|---|---|
| rm | RESERVOIR MARGIN |
| rz | RIPARIAN RESERVE |
| rs | RIVER SEDIMENTS |
| rd | ROAD SURFACE |
| sl | SLIDE |
| tl | TALUS |
| ur | URBAN |

Note: Water categories (la, ls, re, r) will identified over 50 percent coverage.

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

| | | | |
|---|---|---|---|
| A | ALPINE FOREST Species | NPBB | NON PRODUCTIVE BRUSH |
| C | CULTIVATED | NPBG | NON PRODUCTIVE BURN |
| G | GRASS | NPFL | NON PRODUCTIVE FOREST Species |
| G | GRAVEL BAR | NT | NO TYPING AVAILABLE |
| GR | GRAVEL PIT | OR | OPEN RANGE |
| L | LAKE | R | ROCK |
| M | MEADOW | S | SWAMP |
| MUD | MUD FLAT | | |

| | |
|---|---|
| SAND | SAND |
| TIDE | TIDAL FLAT |
| U | URBAN |
| | |
| NC | NON COMMERCIAL |
| NCBR | NON COMMERCIAL BRUSH |
| NCLA | NON COMMERCIAL |
| NOT | NOT SUP/CONIFR'S 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.

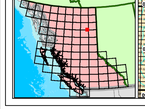
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mite Damage |
| C | Cones and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| | | R | Site Rehabilitation |
| | | T | Treatment Injuries |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

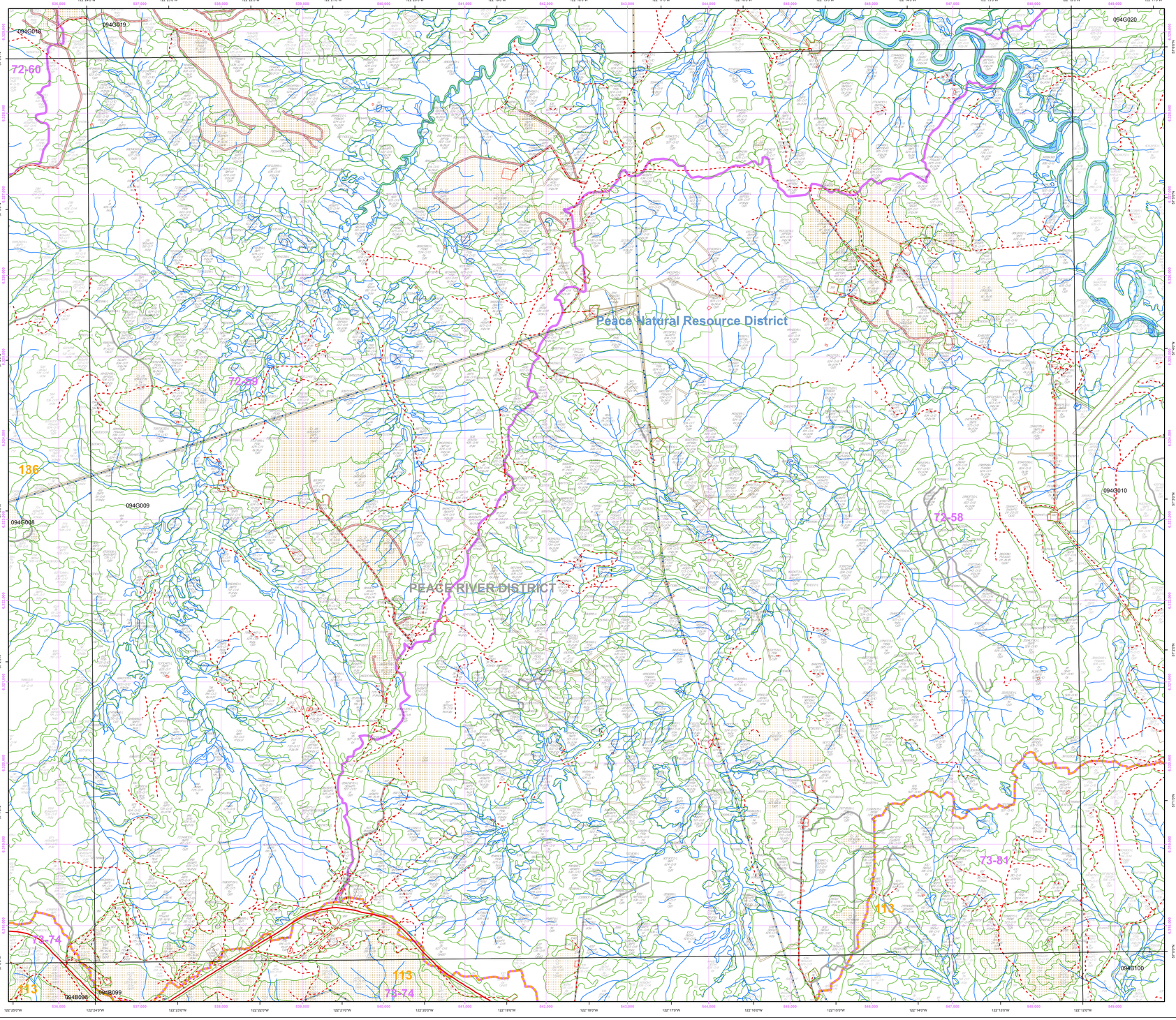
**Example Opening History Details**

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 MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Layers" 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