094B041

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
## 094B041

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 in the Forest Inventory Features and 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
- Inoculture Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

**TRIM_Base Features:**
- 4x Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Helins
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolke/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 Inoculture 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 (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 (0.1-10.4m), crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: a fresh 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
- 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 | 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 |
| 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 |
| Pa | Albicaulis Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plg | Lodgepole x Jack Pine hybrid |
| Plc | Lodgepole Pine (coastal) |
| Pp | Shore Pine (coastal) |
| Pw | Western White Pine |
| Pxj | Jack Pine hybrid |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Sw | White Spruce |
| Sxe | Spruce Hybrid |
| Sxw | Engelmann x White |
| Sxl | Sitka x Lutz |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| E | APPLE |
| Up | Pacific Crab Apple |
| A | ASPEN; COTTONWOOD or POPLAR |
| At | Trembling Aspen |
| Ac | Black Cottonwood |
| Act | Balsam Poplar |
| Ax | hybrid Poplars |
| Al | Trembling Aspen |
| Ep | Paper Birch |
| Ea | Alaska x Paper Birch hybrid |
| Ekp | Alaska x Paper Birch hybrid |
| Ew | Water Birch |
| K | CASCARA |
| V | CHERRY |
| Vb | Bitter Cherry |
| Vc | Choke Cherry |
| Vp | Pin Cherry |
| G | DOGWOOD |
| Gp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Mv | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Bonclyx's) |
| Wr | Pussy Willow (grey-leaved) |
| Ws | Scouler's Willow |
| Wt | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| Ue | APPLE |
| | Apple |
| Uc | ASPEN; COTTONWOOD or POPLAR |
| Ad | *Southern Cottonwood |
| | BIRCH |
| Ea | European Birch |
| Eg | Silver Birch (swamp) |
| Ej | *Japanese Birch |
| Vs | CHERRY |
| | Sweet Cherry |
| Vu | Ussuri Plum |
| | *Ural Orford Cedar |
| Bb | FIR (Balsam) |
| Bp | *Balkan Fir |
| Bn | Noble Fir |
| Bc | *Concolor Fir |
| Be | *White Fir |
| | LARCH |
| Lsl | *Siberian Larch |
| Ls | *Siberian Larch |
| | MAPLE |
| Me | Box Elder |
| Mr | *Norway Maple |
| Mt | *Tatarian Maple |
| Qrk | OAK |
| Qe | *English Oak |
| Qp | *Pedunculate |
| | OTHER EXOTICS |
| Oa | *Incense Cedar |
| Oc | *Monterey Cypress |
| Ol | *Coast Redwood |
| Od | European Mountain Ash |
| Oj | Japanese Mtn Ash (southern) |
| Oq | Common Pear |
| Og | Oregon Ash |
| Ow | *White Ash |
| Ot | *Stagbeack Hickory |
| Ob | *Black Walnut |
| Oh | Japanese Walnut |
| | Hill) |
| Pm | *Monterey Pine |
| Pn | *Red Pine |
| Ps | *Scots Pine |
| | SPRUCE |
| Sn | *Norway Spruce |

**Line 4**

**4a AGE CLASS**

| CODE | LIMITS (years) |
|---|---|
| X | 1-20 |
| 1 | 21-40 |
| 2 | 41-60 |
| 3 | 61-80 |
| 4 | 81-100 |
| 5 | 101-120 |
| 6 | 121-140 |
| 7 | 141-250 |
| 8 | 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**

SI is calculated 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 is estimated when suitable SI trees aremot 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 (5v/ v and l records)**

**NON-TREED SHRUB**
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- s SHRUB LOW - 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 graminoids > 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 (5v/ v and l records)**
- ap AIRPORT
- bi BEACH
- bo BOULDERFIELD
- br BEDROCK
- bu BURNED AREA
- cn CONTAMINATED
- co COMPACTED SOILS
- gl GLACIER
- gp GRAVEL PIT
- la LAKE
- mu MUD FLAT
- ri RIVER
- s LANDFILL
- ts POND or LAKE SEDIMENTS
- us OPEN PIT MINE
- mo MORAINE
- mp MUD/FLAT SEDIMENT
- mr RUBBLY MINE SPOILS
- ro ROCK
- st OTHER
- sn SNOW COVER
- re RESERVOIR
- rm RESERVOIR/DAM
- rr RESERVOIR MARGIN
- rw RAILWAY SURFACE
- ro ROAD SURFACE
- ta TALUS
- va VEGETATED
- ur URBAN

Note: Water categories (la, su, ri, rs) must labelled over 90 percent coverage.

**NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for l records)**
- AF ALPINE FOREST
- AFxx ALPINE FOREST (Species
- C CULTIVATED
- CL CLEARING
- G GRASS, BAR
- GR GRAVEL PIT
- ICE ICEFIELD
- MEADOW
- MUD MUDFLAT
- NPL NON-PRODUCTIVE
- NPBR NON PRODUCTIVE BRUSH
- NPBU NON PRODUCTIVE BURN
- NPFX NON PRODUCTIVE FOREST (Species
- NTA NO TYPING AVAILABLE
- OR OPEN RANGE
- P HAYFIELD
- R ROCK
- S SWAMP
- SAND SAND
- TIDE TIDAL FLAT
- U URBAN
- NC NON-COMMERCIAL
- NCBR NON COMMERCIAL BRUSH
- NP NON PRODUCTIVE
- NSR NOT SUFFICIENTLY RESTOCKED
- NTA NO TYPING AVAILABLE

**Line 6 - Disturbance History**

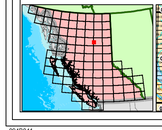
Disturbance type code preceded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

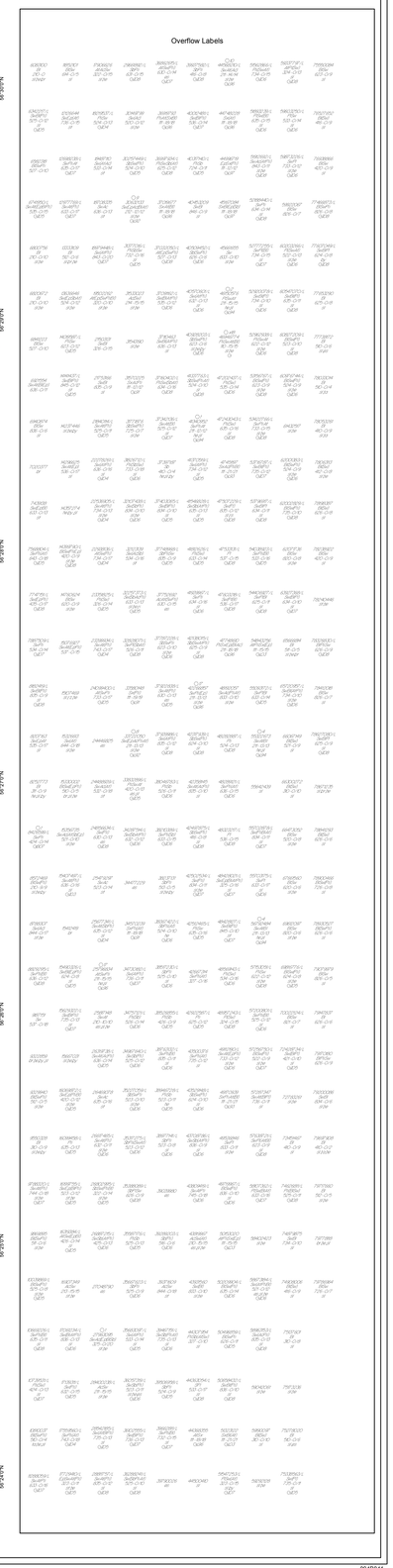
- A Animal Damage
- B Wildfire
- C Core and Seed Insects
- D Diseases
- I Insects
- L Logging
- M Mide Damage
- N Non-Biological Injuries
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

**Example Opening History Details**

Detailed Silviculture information is available on the BCGW utilizing either 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






094B041

094B041