104H059

# Vegetation Map
## 104H059

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRMS / 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, 2015

**MAP SYMBOLOGY**

**Forest Inventory Features:**
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (GVS)
- Research Installations

**TRIM - Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Ferries
- 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 Licences - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (> 1,000,000 ha - 75 % 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:**

OZ
ESA
Fdfw
Dr 20
Hs1
0478

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 a Fd (Douglis 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 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 Opaing Number**

OZ - opening number valid for BCGS mapsheet
DNR - 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 | Seaside Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pa | Whitebark Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (interior) |
| Plg | Lodgepole x Jack Pine hybrid |
| Py | Ponderosa Pine (yellow) |
| Pw | Shore Pine (coast) |
| Pxj | Ponderosa x Jack Pine |
| Pw | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Sn | White Spruce |
| Sx | Spruce hybrid |
| Sxe | Engelmann x White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| Du | Sitka Alder |
| A | Pacific Crab Apple |
| Ac | ASPEN, COTTONWOOD or POPLAR |
| Act | Poplar |
| Acb | Balsam Poplar |
| Act | Black Cottonwood |
| Ax | Hybrid Poplars |
| At | Trembling Aspen |
| At | ARBUTUS |
| Ra | Arbutus |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Exp | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Kc | Cascara |
| Kh | Hooker |
| Vs | Bitter Cherry |
| Vv | 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 |
| Wa | Pacific Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Bardley's) |
| Wf | Farrey Willow (grayleaved) |
| Ws | Scouler's Willow |
| Wl | Sitka Willow (lea-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 |
| | ASPEN, COTTONWOOD or POPLAR |
| Act | *Southern Cottonwood |
| | BIRCH |
| Ek | European Birch |
| Es | Silver Birch (swamp) |
| Ey | Yellow Birch |
| | CHERRY |
| Vs | Sweet Cherry |
| | CYPRESS |
| Yo | * Port Orford Cedar |
| | FIR (Balsam) |
| Bb | *Balsam Fir |
| Bp | Noble Fir |
| Bm | *Shasta Red Fir |
| Bc | *White Fir |
| | LARCH |
| Ld | *Dahurian Larch |
| Lk | European Larch |
| | MAPLE |
| Mk | Box Elder |
| Mr | *Norway Maple |
| Ms | *Sycamore Maple |
| | OAK |
| Qe | *English Oak |
| Qm | *White Oak |
| | OTHER EXOTICS |
| Oa | *Incense Cedar |
| Od | *Giant Sequoia |
| Or | *Coast Redwood |
| Oe | European Mountain Ash |
| Ow | S'Arbor (Ent.)(southern) |
| Of | Common Pear |
| Oj | Dragon Ash |
| Oh | *White Ash |
| Ot | *Shagbarck Hickory |
| Oj | Tree-of-Heaven |
| Ow | *European Walnut |
| | PINE |
| Pm | *Monterey Pine |
| Pr | *Red Pine |
| Py | *Sugar 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) |
|---|---|
| 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 (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**

SI is estimated when suitable SI trees cannot present, e.g. young stands (<30yrs). It is decided by a site/Unit 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**
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- s SHRUB LOW - shrub with average shrub height < two metres.

**NON-TREED HERB**
- hw 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 (for V and I records)**

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| b | BEACH | h | HEADWALL | ms | MUDFLAT SPOILS |
| bl | BLOCKFIELD | li | LAVA BED | oc | OCEAN |
| br | BEDROCK | l | LANDING | ot | OTHER |
| bu | BURNED AREA | ls | POND or LAKE SEDIMENTS | pn | SNOW COVER |
| cb | CUTBANK | mi | OPEN PIT MINE | rs | RESERVOIR |
| es | EXPOSED SOILS | mo | MORAINE | ri | RIVER / STREAM |
| g | GLACIER | | | | Note: Water categories (e.g. oc, ss, ri) not labelled over 90 percent coverage. |

| | | | |
|---|---|---|---|
| rm | RESERVOIR MARGIN |
| rb | RESERVOIR BANK |
| rm | RIVER SEDIMENTS |
| rz | ROAD SURFACE |
| ta | TALUS |
| tl | TAILINGS |
| u | URBAN |

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

| | | | |
|---|---|---|---|
| A | ALPINE | NP | NON PRODUCTIVE |
| AF | ALPINE FOREST/Species | NPBR | NON PRODUCTIVE BRUSH |
| C | CULTIVATED | NPBU | NON PRODUCTIVE BURN |
| F | FOREST | NPF | NON PRODUCTIVE FOREST /Species |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE |
| GR | GRAVEL PIT | OB | OPEN BROKE |
| ICE | ICEFIELD | P | HAYFIELD |
| M | MEADOW | R | ROCK |
| MUD | MUDFLAT | 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 preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

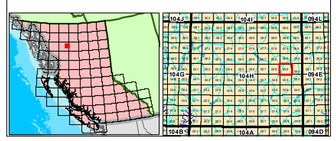
| | | | | | |
|---|---|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| B | Wildfire | M | Mite Damage | T | Treatment Injuries |
| C | Cone and Seed Insects | N | Non-Biological Injuries | U | Damage Unknown |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |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

**Example Opening History Details**

Detailed Silviculture information is available on the BCGW utilizing either IMT 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



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