103H041

# Vegetation Map
## 103H041

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 / Terrain5

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 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
- Air Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydroelectric - 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
ex. the most important layers is described as Fd (Douglas Fir) and Hw (Western Hemlock).
4 Age Class, Height Class, Crown Closure Class, Site Index / estimated SI
ex. stand is age class 2 (21-40 yrs), height class 1 (0.1-10 mts), crown closure class 1 (6-10% ), 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**

OP - opening number valid for BCGS mapsheet  xxxx - opening number has not been assigned

**Line 2 - Polygon No. / Multi-layer**

VRMS 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 | Whitebark Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (coastal) |
| Pli | Lodgepole Pine (interior) |
| Plx | Lodgepole x Jack Pine hybrid |
| Pw | Western White Pine |
| Py | Ponderosa Pine |
| Pyc | Shore Pine (coastal) |
| Pw | Western White Pine |
| Pxj | Jack x Lodgepole Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxb | Black x White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| U | APPLE |
| Up | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Act | Balsam Poplar |
| At | Trembling Aspen |
| Ax | Hybrid Poplars |
| Xl | Trembling Aspen |
| Xh | Black Cottonwood |
| Xw | Willow(s) |
| E | BIRCH |
| Ep | Paper Birch |
| Epg | Alaska Paper Birch |
| Ey | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Kc | 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 |
| O | OAK |
| Or | Red Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wf | Peachleaf Willow (Bebb's) |
| Wy | Pussy Willow (grey leaved) |
| Wr | Red Willow (Hooker) |
| Ws | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| Ua | APPLE |
| | Apple |
| | ASPEN, COTTONWOOD or POPLAR |
| Ap | Southern Cottonwood |
| Ae | Aspen |
| Eb | European Birch |
| Ek | Silver Birch (exempt) |
| Ep | Paper Birch |
| | CHERRY |
| Vs | Sweet Cherry |
| Vu | Hybrid Cherry |
| Yo | Port Orford Cedar |
| | FIR (Balsam) |
| Bn | Noble Fir |
| Bp | Grand Fir |
| Bm | Shasta Red Fir |
| Bc | White Fir |
| | LARCH |
| Lk | European Larch |
| Lx | Siberian Larch |
| | MAPLE |
| Mo | Norway Maker |
| Mr | Norway Maple |
| Mp | Sycamore Maple |
| | OAK |
| Qg | English Oak |
| Qw | White Oak |
| | OTHER EXOTICS |
| Ow | Incense Cedar |
| Ot | Monterey Pine |
| Oc | Coast Redwood |
| Od | European Mountain Ash |
| Ox | Giant Sequoia/Redwood |
| Of | Common Fig |
| Og | Oregon Ash |
| Ou | Elm species |
| Oh | Shagbark Hickory |
| Oj | Tree of Heaven |
| Oa | Japanese Walnut |
| | PINE |
| Pn | Monterey Pine |
| Pr | Red Pine |
| Ps | 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**

All SI are shown to the nearest metre referenced at 50 years breast height age. Site index curves are based on the following 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 are not present, e.g. deciduous stands. The SIBEC system is used. The SIBEC program provides 6 Associated Yields in the data base and Inventory Type Group and SI Estimated source code.

**Line 5 Vegetation records**

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

**NON-TREED SHRUB**
- s SHRUB TALL - shrub with average shrub height > or = to two metres.
- d SHRUB LOW - shrub with average shrub height < two metres.

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

**NON-TREED BRYOID**
- b BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bk BRYOID - MOSS - bryoid with mosses, hornwort, and liverwort > 50% of the bryoid cover.
- bl BRYOIDS - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NO VEGETATED**
- e Exposed Land
- o Rock / Rubble
- w Water / Ice

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

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| be | BEACH | la | LAKE | mr | RUBBLY MARSHY SPOILS |
| bl | BLOCKFIELD | lb | LAVA BED | mi | OCEAN |
| bu | BUILDING | ri | RIVER | mo | OCEAN |
| ba | BUSINESS AREA | rs | POND or LAKE SEDIMENTS | pi | SNOW COVER |
| cb | CUTBANK | mi | OPEN PIT MINE | re | RESERVOIR |
| dy | DRY SILT SOILS | ow | WORKING | r | RIVER / STREAM |
| ex | GLACIER | | | | |

mm RESERVOIR MARGIN
mr RAILWAY SURFACE
rs RIVER SEDIMENTS
ro ROAD SURFACE
sa SLUG
ti TAILINGS
ur URBAN

ex - Water categories (la, ou, re, ri) not labelled over 99 percent coverage.

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

| | | | |
|---|---|---|---|
| A | ALPINE | NP | NON-PRODUCTIVE |
| AF | ALPINE FOREST (Species | NPBR | NON-PRODUCTIVE BRUSH |
| C | CULTIVATED | NPBU | NON-PRODUCTIVE BURN |
| CL | CLAY BANK | NPF | NON-PRODUCTIVE FOREST (Species |
| G | GRASS / HERB | OR | OPEN ROCK / TALUS |
| GR | GRAVEL PIT | OR | OPEN RANGE |
| ICE | ICEFIELD | P | HAYFIELD |
| L | LOW BRUSH | R | ROCK |
| MUD | MUDFLAT | S | SWAMP |

| | |
|---|---|
| BAND | SAND |
| TIDE | TIDAL FLAT |
| U | URBAN |
| NC | NON COMMERCIAL |
| NCBR | NON COMMERCIAL BRUSH |
| NP | NON PRODUCTIVE |
| NSR | NOT SATISFACTORILY RESTOCKED |
| NTA | NOT 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.

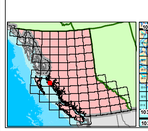
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mine Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| | | R | Site Rehabilitation |
| | | T | Treatment Injuries |
|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

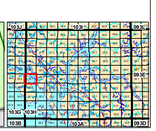
**Example Opening History Details**

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 Map" to turn on display values for :

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





103H041

130°15'0"W 130°10'0"W 129°59'0"W 129°54'0"W 129°49'0"W 129°48'8"W

433,000 434,000 435,000 436,000 437,000 438,000 439,000 440,000 441,000 442,000 443,000 444,000 445,000 446,000 447,000

53°35'0"N 53°30'0"N 53°25'0"N 53°20'0"N 53°15'0"N

5,935,000 5,930,000 5,925,000 5,920,000 5,915,000 5,910,000 5,905,000 5,900,000 5,895,000 5,890,000 5,885,000 5,880,000 5,875,000

103G060 103H051 103H052 103G050 103H041 103H042 103G040 103H031 103H032

61-49 61-50 61-55 61-56 61-57 112 10 20

RANGE 4 COAST DISTRICT
Coast Mountains Natural Resource District

Overflow Labels

103H041

103H041