093K100

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
## 093K100

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 in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

**TRIM. Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf'ields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolka/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
   ex: Douglas-fir dominant 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 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**

*CUT* - opening number valid for BCGS mapsheet
*XXXX* - 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 | Nootka Cypress |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| B | FIR (Balsam) |
| Ba | Subalpine 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 | Alpine Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole Pine hybrid |
| Py | Ponderosa Pine (yellow) |
| Pw | Shore Pine (coast) |
| Pxj | Ponderosa Pine hybrid |
| Pw | Whitebark Pine |
| S | SPRUCE |
| Sa | Alaska Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Spruce hybrid White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| U | APPLE |
| Ua | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Act | Black Cottonwood |
| Ad | Black Cottonwood |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| R | ARBUTUS |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Ep | Alaska Paper Birch hybrid |
| Ew | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Kc | Cascara |
| V | CHERRY |
| 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 |
| O | OAK |
| Og | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Bentley's) |
| Wr | Pussy Willow (prairie-harvest) |
| Ws | Scouler's Willow |
| Wy | Sitka Willow (coast-leaved) |

**UNKNOWN - OTHER**

| | |
|---|---|
| X | UNKNOWN |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Xl | unknown (may not on list) |
| Zc | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| Ap | APPLE |
| Ua | Apple |
| At | ASPEN, COTTONWOOD or POPLAR |
| Act | Western Cottonwood |
| Ae | BIRCH |
| Ea | European Birch |
| Ep | Alaska Paper(Kenai) |
| Ep | Thinleaf Birch |
| Ey | CHERRY |
| Vs | Sweet Cherry |
| Y | CYPRESS |
| Yo | Japanese Cedar |
| B | FIR (Balsam) |
| Bb | Balsam Fir |
| Bc | Corkbark |
| Bm | Silvertip Red Fir |
| Bc | *White Fir |
| L | LARCH |
| Ld | *Dahurian Larch |
| Ls | *Siberian Larch |
| M | MAPLE |
| Mb | Box Elder |
| Mn | *Norway Maple |
| Ms | *Sycamore Maple |
| O | OAK |
| Qe | *English Oak |
| Qw | *White Oak |
| X | OTHER EXOTICS |
| Xc | unknown conifer |
| Gs | *Giant Sequoia |
| Gr | *Coast Redwood |
| Ou | Green Ash (Manitoba Ash |
| Ow | Siberian Elm (southern) |
| Of | Common Pear |
| Og | Oregon Ash |
| Or | *White Ash |
| Oa | *Black Locust, Hickory |
| Ot | Tree-of-Heaven |
| Gk | Japanese Walnut |
| P | PINE |
| Pn | *Monterey Pine |
| Pr | *Red Pine |
| Pp | *Ponderosa Pine |
| S | 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 50 are shown to the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the tallest trees in the stand. Site trees are trees that meet both age and height, estimated SI is shown after or replaces the SI.

**4e. ESTIMATED SITE INDEX**

SI is estimated when suitable SI trees aremt present; e.g. young stands (<30yrs). It is denoted by a dash which always follows the estimated site index. Site trees 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**
- 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**
- 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 gaminoids > 50% of the herb cover.

**NON-TREED BRYOID**
- bs BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses > 50% of the bryoid cover. bmb = 80% 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 | mv | MUDFLAT SEDIMENT |
| be | BEACH | lk | LAKE | mg | RUBBLY MINE SPOILS |
| bl | BLOCKFIELD | lb | LAVA BED | oc | OCEAN |
| br | BEDROCK | li | LANDING | sl | DYKE |
| ga | GRAVEL AREA | ls | LAKE or LAKE SEDIMENTS | sc | SNOW COVER |
| ou | OUTBANK | na | OPEN PIT MINE | re | RESERVOIR |
| ve | EXPOSED SOILS | mn | MORAINE | r | RIVER / STREAM |
| gl | GLACIER | | | | |

| | | | |
|---|---|---|---|
| mr | RESERVOIR MARGIN |
| rn | RAILWAY SURFACE |
| rs | RIVER SEDIMENTS |
| rz | ROAD SURFACE |
| sa | SAND |
| tz | TAILINGS |
| ur | URBAN |

Note: Water categories (lk, ls, re, r) not labelled over 90 percent coverage.

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

| | | | | | |
|---|---|---|---|---|---|
| AF | ALPINE FOREST-Species | NPBS | NON PRODUCTIVE BRUSH | SAND | SAND |
| C | CULTIVATED | NPBU | NON PRODUCTIVE BURN | TIDAL | TIDAL FLAT |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST-Species | U | URBAN |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| GP | GRAVEL PIT | OP | OPEN FOREST | NCB | NON COMMERCIAL BRUSH |
| ICE | ICEFIELD | P | HAYFIELD | NP | NON PRODUCTIVE |
| M | MEADOW | R | ROCK | NSR | NOT SUFFICIENTLY RESTOCKED |
| MUD | MUDFLAT | S | SWAMP | NTA | NO TYPING AVAILABLE |

**Line 6 - Disturbance History**

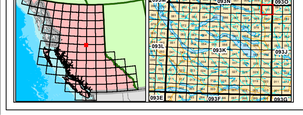
Disturbance type code, preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

| | | | | | |
|---|---|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| ~ | Wildfire | M | Mist 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 MAP 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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093N009 093N010 093O001 093K099 093K089 093K090 093O061

69-50 69-24 69-3 68-78 68-34 68-47

90 49 43 89

Mackenzie Natural Resource District
CASSIAR DISTRICT
Fort St. James Natural Resource District
RANGE 5 COAST DISTRICT
CARIBOO DISTR

423,000 424,000 425,000 426,000 427,000 428,000 429,000 430,000 431,000 432,000 433,000 434,000 435,000 436,000
124°12'0"W 124°11'0"W 124°10'0"W 124°9'0"W 124°8'0"W 124°7'0"W 124°6'0"W 124°5'0"W 124°4'0"W 124°3'0"W 124°2'0"W 124°1'0"W 124°0'0"W
6,399,000 6,398,000 6,397,000 6,396,000 6,395,000 6,394,000 6,393,000 6,392,000 6,391,000 6,390,000 6,389,000 6,388,000 6,387,000 6,386,000
54°30'0"N 54°29'0"N 54°28'0"N 54°27'0"N 54°26'0"N 54°25'0"N 54°24'0"N 54°23'0"N 54°22'0"N 54°21'0"N 54°20'0"N 54°19'0"N 54°18'0"N 54°17'0"N

Overflow Labels