093F020

# Vegetation Map
# 093F020

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

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 contained 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
- Sructure 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
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aw/Barriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

**Administrative Boundaries:**
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- RAV 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 (1:1000,000 ha) - (10 % hatch)
- Municipal boundary (1:1000,000 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 layer is described as Fd (Dougls 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

C07 E0 E0 Fd/Hw 21 20 H2 W2 D78

**Line 1 - History Record Opening Number**
C07 - opening number valid for BCGS mapsheet
Z039 - opening number has not been assigned

**Line 2 - Polygon No. / Multi-layer**
VRIMS Polygon Number - ranging from one to nine digits
A , - 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 dataed 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 |
| Hw | Western Hemlock |
| Hm | Mountain Hemlock |
| Hx | Western Hemlock |
| Hxm | Western x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| L | LARCH |
| Lt | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (interior) |
| Plj | Lodgepole x Jack Pine hybrid |
| Pli | Lodgepole Pine (coastal) |
| Psx | Shore Pine (scrub) |
| Pw | Western White Pine |
| Pa | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Si | Sitka Spruce |
| Sw | 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 |
| U | APPLE |
| Ue | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Act | Black Cottonwood |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| Ar | ARBUTUS |
| Ra | Arbutus |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Ep | Alaska x Paper Birch hybrid |
| Eb | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| V | CHERRY |
| Vc | Choke Cherry |
| Vp | Pin Cherry |
| Vm | Bitter Cherry |
| Qg | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Broadleaf Maple (broadleaf) |
| Mv | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wp | Pacific Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Bandaly's) |
| Wr | Red Willow (Drummond's) |
| Wb | Scouler's Willow |
| Wl | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| | APPLE |
| Ua | Apple |
| | ASPEN, COTTONWOOD or POPLAR |
| Ad | Southern Cottonwood |
| | BIRCH |
| Ea | European Birch |
| Es | Silver Birch (swamp) |
| Ey | Young's Birch |
| | CHERRY |
| Ev | Sweet Cherry |
| | CYPRESS |
| Yo | "Ford Orford Cedar |
| | FIR (Balsam) |
| Bp | "Balsam Fir |
| Bp | Noble Fir |
| Bn | "Nikko Fir |
| Bs | "White Fir |
| | LARCH |
| Ld | "European Larch |
| Lz | "Siberian Larch |
| | MAPLE |
| Me | Box Elder |
| Mh | "Norway Maple |
| Ms | "Sycamore Maple |
| | OAK |
| Qe | "English Oak |
| Qr | "Red Oak |
| | OTHER EXOTICS |
| Ox | "Incense Cedar |
| Oh | "Dorit Sequoia |
| Oc | "Coast Redwood |
| Of | "European Mountain Ash |
| Oa | Siberian Elm (autchorn) |
| Or | Common Pear |
| Ob | "Black Ash |
| Ow | "White Ash |
| O | "Shagbarck Hickory |
| Oi | Japanese Walnut |
| Ot | Japanese Walnut |
| | PINE |
| Pm | "Monterey Pine |
| Pr | "Red Pine |
| Ps | "Scots 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 - 27.4 |
| 4 | 27.5 - 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**
An SI site shown to the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. Where there is inconsistency in age and height, estimated SI is shown after, or replaces the SI.

**4e. ESTIMATED SITE INDEX**
SI is estimated when suitable SI trees aremnt present, e.g. young stands (<30yrs). It is denoted by a stash which always follows the SI. Estimated SI is derived from Base ae Inventory Type Group and SI Estimated source code.

**Line 5 - Vegetation records**

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

**NON-TREED SHRUB**
- st 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 - FORBS
- hg HERB - GRAMINOIDS

- herb with no distinction between forbs and graminoids.
- herb with forbs > 50% of the herb cover.
- 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, liverworts, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NON VEGETATED**
- ei Exposed Land
- ro Rock / Rubble
- w Snow / Ice

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

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| au | URBAN | I | ICE | mv | MUDFLAT VOLCANIC SPOILS |
| bl | BLOCKFIELD | l | LAVA BED | oc | OCEAN |
| br | BEDROCK | t | LANDING | o | OTHER |
| bu | BURNED AREA | lk | POND or LAKE SEDIMENTS | rc | RECREATION COVER |
| cn | CUTBANK | mx | OPEN PIT MINE | rr | RESERVOIR |
| cs | CUTBANK/SOILS | mn | MONUMENT | r | RIVER / STREAM |
| gl | GLACIER | | | | |

- rm RESERVOIR MARGIN
- rs RIVER SEDIMENTS
- ro ROAD SURFACE
- s SAND
- t TALUS/ROCK
- ur URBAN

Note: Water categories lk, rc, rr, r, o not labelled over 50 ha coverage.

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

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | NP | NON PRODUCTIVE | | SAND SAND |
| AF | ALPINE FOREST /Species | NPBR | NON PRODUCTIVE BRUSH | TIDE | TIDAL FLAT |
| BR | BRUSH | NPBS | NON PRODUCTIVE BURN | U | URBAN |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST /Species | | |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| GR | GRAVEL PIT | OA | OPEN RANGE | NCBR | NON COMMERCIAL BRUSH |
| ICE | ICEFIELD | P | HAYFIELD | NP | NON PRODUCTIVE |
| L | LAKE | R | ROCK | NPBR | NON PRODUCTIVE RESTOCKED |
| MUD | MUD FLAT | S | SWAMP | NTA | NO TYPING AVAILABLE |

**Line 6 - Disturbance History**

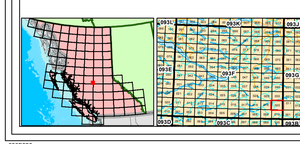
Disturbance type code preceded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mite Damage |
| C | 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 |

**Exemple 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




Overflow Labels



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