092O022

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
## 092O022

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, 2016

**MAP SYMBOLOGY**

**Forest Inventory Features:**
- Forest Vegetation Polygons
- Structure 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'entries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofea-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: 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: a 141-250 year old (7), 26 - 35 m high (4), 10-30% crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Product Line Segment)
ex: a herb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1979

O2 E31 Fd6c1 Hw 20 20 Wet Sp8

**Line 1 - History Record Opening Number**

092 - opening number valid for BCGS mapsheet
nnnn - 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**

| | |
|---|---|
| Cw | Western Red Cedar |
| Y | CYPRESS |
| Yc | Yellow Cedar |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| Am | Amabilis Fir |
| Ba | Amabilis Fir |
| Bg | Grand Fir |
| Bl | Subalpine Fir (alpine) |
| H | HEMLOCK |
| Hw | Mountain Hemlock |
| Hm | Western Hemlock |
| Hxm | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Sitkoxin Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (interior) |
| Plcp | Lodgepole x Jack Pine hybrid |
| Plp | Lodgepole Pine (coastal) |
| Pp | Shore Pine (coastal) |
| Pw | Western White Pine |
| Pxj | Hybrid White Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Engelmann x White |
| Sxl | Spruce hybrid |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | DECIDUOUS |
| Dr | Red Alder |
| U | APPLE |
| Up | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| At | Aspen |
| Act | Black Cottonwood |
| Ax | Balsam Poplar |
| Atm | Trembling Aspen |
| R | ARBUTUS |
| Rm | Pacific Madrone |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Eap | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ey | Yellow Birch |
| C | CASCARA |
| Kc | Cascara |
| K | CHERRY |
| Vs | Bitter Cherry |
| Vv | Choke Cherry |
| Vu | Pin Cherry |
| G | DOGWOOD |
| Gp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wa | Peachleaf Willow (Bantzy's) |
| Ww | Pussy Willow (gray-leaved) |
| Ws | Scouler's Willow |
| Wy | Yellow Willow (river-leaved) |

**UNKNOWN / OTHER**

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

**EXOTICS**

| | |
|---|---|
| Ue | Apple |
| Ua | ASPEN, COTTONWOOD or POPLAR |
| Ae | Southern Cottonwood |
| E | BIRCH |
| Ep | European Birch |
| Es | Silver Birch (swamp) |
| Ey | Yellow Birch |
| V | CHERRY |
| Vs | Sweet Cherry |
| Y | CYPRESS |
| Yl | Nootka Cedar |
| Fif | Fir (Balsam) |
| Bb | Balkan Fir |
| Bp | Noble Fir |
| Bm | Shasta Red Fir |
| Bn | Grand Fir |
| L | LARCH |
| Ld | Dahurian Larch |
| Lk | Japanese Larch |
| M | MAPLE |
| Me | Box Elder |
| Mr | Norway Maple |
| Mo | Sycamore Maple |
| OAK | |
| Qe | English Oak |
| Qr | Red Oak |
| OTHER EXOTICS | |
| Ow | Incense Cedar |
| Oy | Monkey Puzzle |
| Oc | Coast Redwood |
| Ol | European Mountain Ash |
| Oj | Japanese Walnut |
| Of | Common Pear |
| Og | Oregon Ash |
| Oh | White Ash |
| Ot | Tibaghack Hickory |
| Ol | Siberian Elm |
| Ok | Japanese Walnut |
| Hbd | |
| Pm | Monterey Pine |
| Pr | Red Pine |
| Ps | Sugar Pine |
| Pmug | |
| So | 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. 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 arenot 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 (for V and I records)**

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

**NON-TREED HERB**
- ha 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**
- bs BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornwarts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NON VEGETATED**
- rf Exposed Land
- rr Rock / Rubble
- si Snow / Ice

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

- aa AIRPORT
- bl BEACH
- cb CUTBLOCK
- dg DEBRIS/FIELD
- ds SEDIMENT
- fl BURNED AREA
- ge GLACIER
- ea EXPOSED SOILS
- gp GRAVEL PIT
- la LAKE
- mi MINE
- ol LANDING
- rs POND or LAKE SEDIMENTS
- rv RIVER
- rm MORAINE
- mu MUDFLAT SEDIMENT
- mv RUBBLY MINE SPOILS
- oc OCEAN
- ot OTHER
- ps SNOW COVER
- rd ROADWAY
- rr RIVER / STREAM
- rm RESERVOIR MARGIN
- rw RAILWAY SURFACE
- rs RIVER SEDIMENTS
- ro ROAD SURFACE
- ta TALUS
- tz TAILINGS
- ur URBAN

Note: Water categories (la, ls, rv, rl) not labelled over 50 percent coverage.

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

- A ALPINE
- AF ALPINE FOREST (Species
- C CULTIVATED
- D DUGOUT
- G GRAVEL BAR
- GR GRAVEL PIT
- L LAKE/POND
- M MEADOW
- MUD MUD FLAT
- NP NON PRODUCTIVE
- NPBR NON PRODUCTIVE BRUSH
- NPBU NON PRODUCTIVE BURN
- NPTR NON PRODUCTIVE FOREST (Species
- NTA NO TYPING AVAILABLE
- OR OPEN RANGE
- R ROCK
- S SWAMP
- SAND SAND
- TIDE TIDAL FLAT
- U URBAN
- NC NON COMMERCIAL
- NCBR NON COMMERCIAL BRUSH
- NSR NOT SUITABLE RANGE
- NSR NOT SUITABLY STOCKED
- 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.

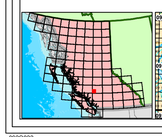
- A Animal Damage
- B Wildfire
- C Cone and Seed Insects
- D Diseases
- I Insects
- L Logging
- M Mbie Damage
- N Non-Biological Injuries
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

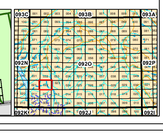
**Example Opening History Details**

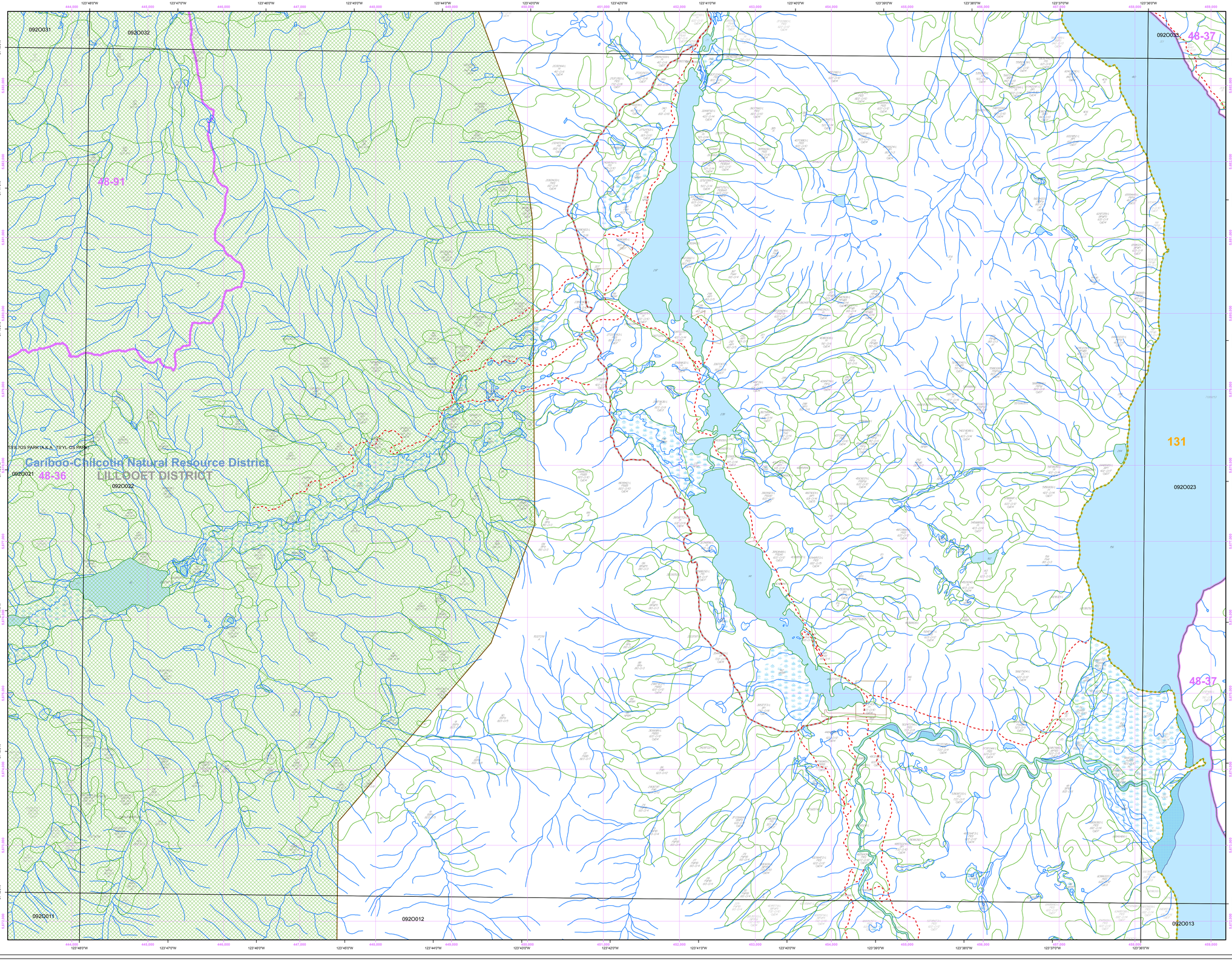
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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






Overflow Labels

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