092H072

# Vegetation Map
# 092H072

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 - 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 display the vegetation resource inventory (VRI) and other forest resource values. Some of 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 (VSTI)
- Research Installations

**TRIM, Base Features:**
- Au Built Roads
- Forest Tenure Road Lines
- Forest Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Fields
- Other Area
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrolfeatures - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

**Administrative Boundaries:**
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FAZM
- BEC Region Compartment - FAZM
- 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 - 10 % 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 Structure Opening and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex. the most important layer is described as Fd (Douglas Fir) and Hw (Western Hemlock).
4 Age, Height, Crown Closure Class Code - separator. Site Index / estimated SI
ex. a stand age of 121-140 yrs, 22 - 25 m height, 26 - 35% 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**

OXXX - opening number valid for BCGS mapsheet  XXXP - 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**

| | |
|---|---|
| Ba | Western Red Cedar |
| Y | CYPRESS |
| Yc | Nootka Cypress |
| Y | YELLOW-CEDAR |
| Ea | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| Fd | Interior Douglas Fir |
| B | FIR (Balsam) |
| Ba | Amabilis Fir |
| Bg | Grand Fir |
| Bl | Subalpine Fir (alpine) |
| H | HEMLOCK |
| Hm | Mountain Hemlock |
| Hw | Western Hemlock |
| Hmx | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Juniper, sp.or var. |
| L | LARCH |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Limber Pine |
| Pli | Lodgepole Pine |
| Plc | Lodgepole Pine (interior) |
| Pxj | Lodgepole x Jack Pine hybrid |
| Pm | Mountain Pine (Alpine) |
| Pp | Shore Pine (coast) |
| Pw | Western White Pine |
| Pxw | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Sx | Sitka Spruce |
| Sw | White Spruce |
| Sxe | Spruce hybrid |
| Sxw | Engelmann x White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| YEW | |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| A | ALDER |
| At | Alder, sp. |
| U | APPLE |
| Ax | Pacific Crab Apple |
| Ac | ASPEN, COTTONWOOD or POPLAR |
| At | Aspen |
| Ac | Poplar |
| Act | Black Cottonwood |
| Ax | hybrid Poplars |
| Ae | Trembling Aspen |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| E | BIRCH |
| Ep | Alaska Paper Birch |
| Epx | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Kc | Cascara |
| C | CHERRY |
| Cb | Bitter Cherry |
| Cs | Choke Cherry |
| D | DOGWOOD |
| G | DOGWOOD |
| Gp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Broadleaf Maple (broadleaf) |
| Mv | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Wa | Peachleaf Willow (Bonnet's) |
| Ww | Pussy Willow (gray-leaved) |
| Wr | Red Willow |
| Ws | Sitka Willow (tide-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| AP | APPLE |
| Ac | ASPEN, COTTONWOOD or POPLAR |
| Act | Black Cottonwood |
| Ax | hybrid Poplars |
| Ae | European Birch |
| Ep | Paper Birch (swamp) |
| Ew | Water Birch |
| C | CHERRY |
| Cp | Pin(sweet) Cherry |
| CYPRESS | |
| Y | *Port Orford Cedar |
| Lt | LARCH |
| Lt | *Tamarack Larch |
| Ls | *Siberian Larch |
| MAPLE | |
| Mr | Box Elder |
| Mn | Norway Maple |
| Mp | *Sycamore Maple |
| OAK | |
| Qe | *English Oak |
| Qr | *Red Oak |
| OTHER EXOTICS | |
| Ox | *Incense Cedar |
| Ol | *Golden Larch |
| Op | *Lawsons Retinispora |
| Oe | European Mountain Ash |
| Oa | *Mountain Ash (southern) |
| Of | Common Pear |
| Og | Oregon Ash |
| Ot | *Tree of Heaven |
| Oh | *Straight-leafy Hickory |
| Q | Tree-of-heaven |
| Ow | *Japanese Walnut |
| PINE | |
| Pm | *Monterey Pine |
| Pn | Austrian Pine |
| Pp | *Scots Pine |
| SPRUCE | |
| Sn | *Norway Spruce |

**Line 4**

**4a AGE CLASS**

| CODE | LIMITS (years) |
|---|---|
| 1 | 0-20 |
| 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 - 9.0 |
| 2 | 9.1 - 19.4 |
| 3 | 19.5 - 28.4 |
| 4 | 28.5 - 37.4 |
| 5 | 37.5 - 48.4 |
| 6 | 48.5 - 59.4 |
| 7 | 59.5 - 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.
Site Index is the "average height of the dominant trees at a specified breast height age". Where 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. non-forested, recently logged, or young stands. The SI estimate displayed is Associated Tree SI 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**
- st SHRUB TALL : shrub with average shrub height > or = to two metres.
- sm SHRUB MEDIUM : 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**
- by BRYOID : 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 CATEGORIES (for V and I records)**

| | | | | | |
|---|---|---|---|---|---|
| bs | BEACH | ic | ICE | mu | MUDFLAT SEDIMENT |
| bl | BLOCKFIELD | la | LAKE | nu | NUBBLY MINE SPOILS |
| bo | BOULDERFIELD | lb | LAVA BED | oc | OCEAN |
| bu | BURNED AREA | mi | MINE | pd | PONDS |
| bs | BURNED AREA | lk | POND or LAKE SEDIMENTS | sn | SNOW COVER |
| dn | CUTBANK/DUNES | rk | OPEN PIT MINE | ta | TAILINGS |
| gl | GLACIER | ri | MORAINE | rv | RIVER / STREAM |

| | |
|---|---|
| rm | RESERVOIR MARGIN |
| rn | RAILWAY SURFACE |
| rs | RIVER SEDIMENTS |
| ro | ROCK OUTCROP |
| ta | TALUS |
| ur | URBAN |
| u | URBAN |

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

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

| | | | |
|---|---|---|---|
| AP | ALPINE | NP | NON PRODUCTIVE |
| AF | ALPINE FOREST-Species | NPBR | NON PRODUCTIVE BRUSH |
| C | CULTIVATED | NPBU | NON PRODUCTIVE BURN |
| CL | CLEARING | NPTR | NON PRODUCTIVE FOREST-Species |
| G | GRAVEL BAR | NTA | NOT TYPED AVAILABLE |
| GR | GRAVEL PIT | OR | OPEN RANGE |
| M | MEADOW | R | ROCK |
| M | MEADOW | S | SEDGE |
| MUD | MUD FLAT | S | SWAMP |

| | |
|---|---|
| SAND | SAND |
| TIDE | TIDAL FLAT |
| U | URBAN |
| NC | NON COMMERCIAL |
| NCBR | NON COMMERCIAL BRUSH |
| NF | NON FOREST |
| NSR | NOT SUITABLY RESTOCKED |
| 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.

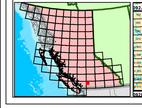
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mite Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| | | R | Site Rehabilitation |
| | | T | Treatment Injuries |
|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

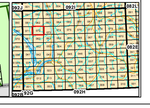
**Example Opening History Details**

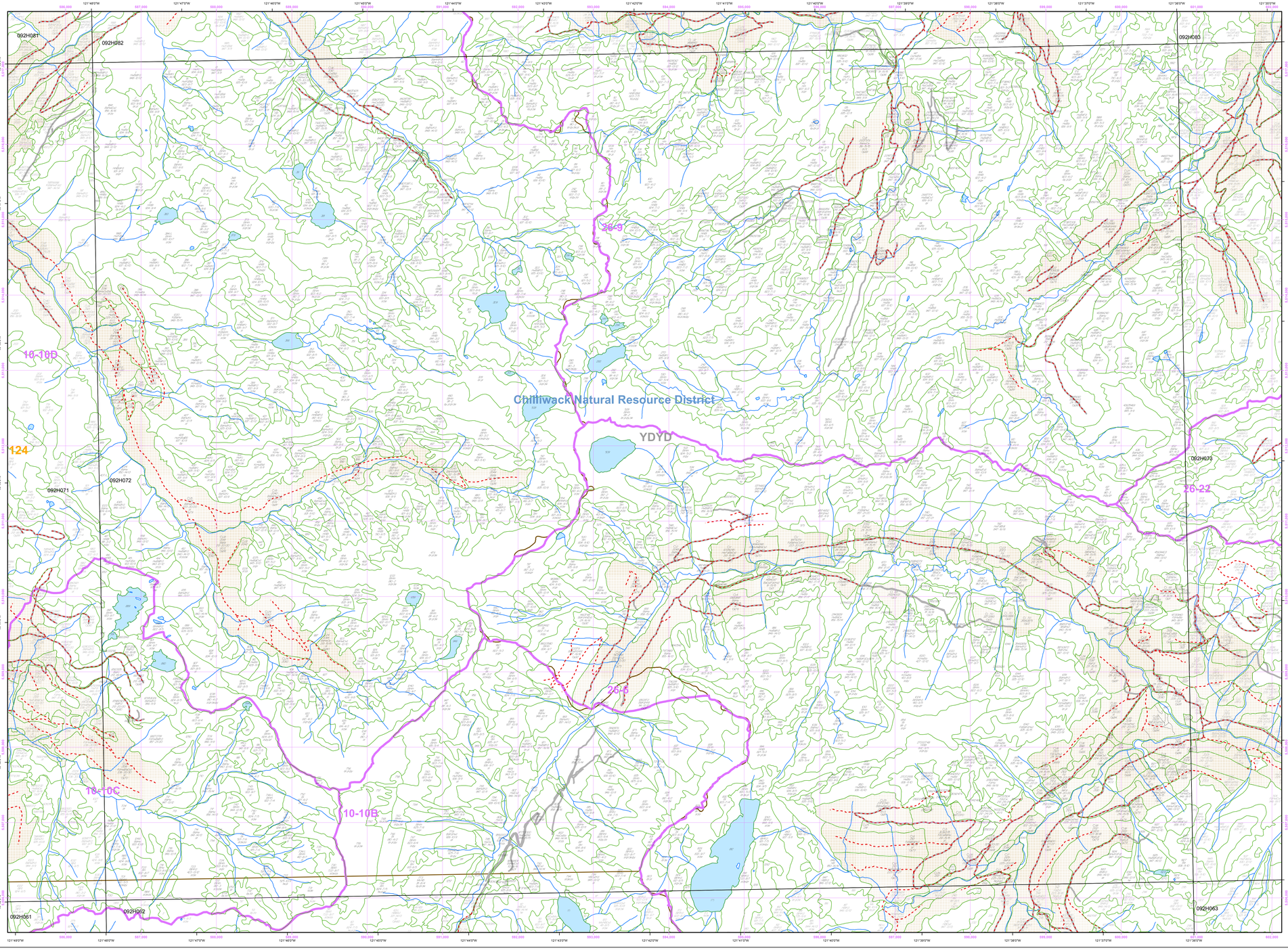
Detailed Silviculture information is available on the BCGW
utilizing either IMF or ArcMap. The MapView example is
of themed RESULTS data

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






Overflow Labels