092M066

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
# 092M066

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
- Inventory Opening in Vegetation
- Permanent Sample Plot (CFS)
- 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
- Hydro/Aev/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 (Douglis 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)
6 Non-Vegetated Descriptor (non-productive descriptions and graminoids, shrubs less that 2m.
7 Disturbance History & year - ex Logged in 1978

**Line 1 - History Record Opening Number**

CUT - opening number valid for BCGS mapsheet ZOOM - opening number has not been assigned

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

XXMS 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 | Nootka Cypress |
| 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 |
| 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 |
| Pj | Jack Pine |
| Pl | Lodge Pole |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole x Jack Pine hybrid |
| Pp | Ponderosa (Yellow) Pine |
| Pla | Shore Pine (coastal) |
| Pw | Western White Pine |
| Pxj | Hybrid White Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxe | Engelmann x White |
| Sxl | Lutz Spruce |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | DOGWOOD |
| G | Red Alder |
| U | APPLE |
| C | Pacific Crab Apple |
| X | ASPEN, COTTONWOOD or POPLAR |
| At | Poplar |
| Ab | Balsam Poplar |
| Act | Black Cottonwood |
| Ad | Trembling Aspen |
| R | ARBUTUS |
| K | Garry Oak |
| E | Alaska Paper Birch |
| Ea | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Q | Cascara |
| V | WILLOW |
| Vb | Bebb's Willow |
| Vp | Pacific Willow |
| Vs | Pussy Willow (Barclay's) |
| Vw | Scouler's Willow |
| Vr | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| Ak | AKA |
| Ax | ASPEN, COTTONWOOD or POPLAR |
| Act | Black Cottonwood |
| Ep | European Birch |
| Ey | Silver Birch (swamp) |
| Ky | *Yellow Birch |
| Ys | *Cherry |
| Ysc | Sweet Cherry |
| Yp | CYPRESS |
| Ypn | *Port Orford Cedar |
| Fb | FIR (Balsam) |
| Bp | *Balsam Fv |
| Bn | *Noble Fir |
| Bs | *Subalpine Fir |
| Bl | *White Fir |
| Lt | LARCH |
| Ltl | *Tamarack Larch |
| Lte | *European Larch |
| Mb | Box Elder |
| Mh | *Norway Maple |
| Mp | *Japanese Maple |
| Oa | OAK |
| Oh | *English Oak |
| Or | *Red Oak |
| Oh | OTHER EXOTICS |
| Ot | *Iceniar Cedar |
| Ow | *Western Larch |
| Ot | *Coast Redwood |
| Ow | European Mountain Ash |
| Os | Siberian Elm (southern) |
| Oc | Common Pear |
| Od | Dawyck Beech |
| Oh | *White Ash |
| Or | *Shagbark Hickory |
| Oj | *Japanese Larch |
| Oj | Japanese Walnut |
| PINE | |
| Pm | *Monterey Pine |
| Pn | *Red Pine |
| Ps | *Sugar Pine |
| Pa | *Austrian |
| 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 curves are identified by the dominant leading species. 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 aren=t present, e.g. recently logged, burned, or non-forested sites. Estimated SI must provide 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 record=s)**

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

**NON-TREED HERB**
- hg HERBS - herb with no distinction between forbs and graminoids.
- hf HERBS - FORBS - herb with forbs > 50% of the herb cover.
- hg HERBS - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

**NON-TREED BRYOD**
- by BRYOID - 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**
- al Alpine Land
- br Bluff / Rubble
- sr Snow / Ice

**NON-VEGETATED CATEGORIES (for V and I record=s)**

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mv | MUD/FLAT SEDIMENT |
| be | BEACH | la | LAKE | mp | RUBBLE/ MINE SPOILS |
| bl | BLOCK/FIELD | lb | LAVA BED | oc | OCEAN |
| bu | BUILDING | ma | MARSH | ri | RIVER |
| bu | BURNED AREA | s | POND or LAKE SEDIMENTS | pn | SNOW COVER |
| cb | CUTBANK | ps | OPEN PIT MINE | re | RESERVOIR |
| dy | DRY/SALT/SOILS | mo | MORAINE | st | STREAM/RIVER |
| gl | GLACIER | | | | |

Note: Water categories (la, re, ri, st) not labelled over 90 percent coverage.

| | | | |
|---|---|---|---|
| mm | RESERVOIR MARGIN |
| rm | RAILWAY SURFACE |
| rs | ROAD SEDIMENTS |
| rd | ROAD SURFACE |
| ta | TALUS |
| ti | TAILINGS |
| ur | URBAN |

**NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F record=s)**

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | NF | NON PRODUCTIVE | SAND | SAND |
| AF | ALPINE FOREST /Species | NPBS | NON PRODUCTIVE BRUSH | TIDE | TIDAL FLAT |
| BR | BRUSH/HERB | NPBU | NON PRODUCTIVE BURN | U | URBAN |
| CL | CLAY MINE | NPF | NON PRODUCTIVE FOREST /Species | | |
| G | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| GR | GRAVEL PIT | OR | OPEN RANGE | NCBR | NON COMERCIAL BRUSH |
| KE | KEF/ELD | P | HAYFIELD | NP | NON PRODUCTIVE |
| MU | MUD FLAT | R | ROCK | NPRE | 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.

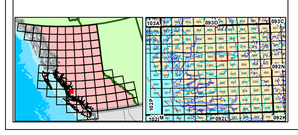
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| B | Wildfire | M | Mite Damage | T | Treatment Injuries |
| C | Cone and Seed Insects | N | Non-Biological Injuries | U | Damage Unknown |
| D | Disease | P | Cone and Seedling Fungal Pathogens | V | Problem Vegetation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

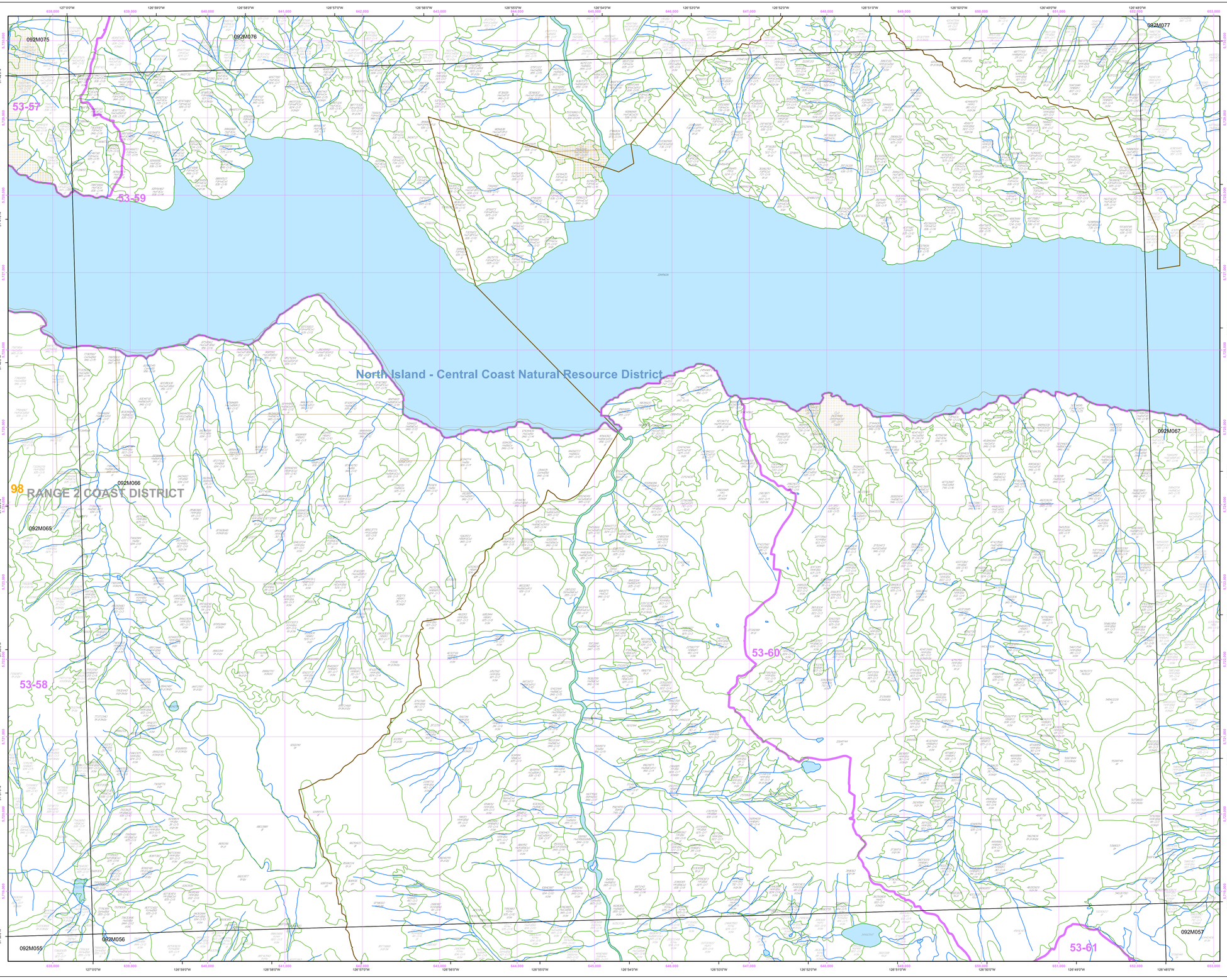
**Example Opening History Details**

Detailed Silviculture information is available on the BCGW utilizing either 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



092M066