092F087

# Vegetation Map
## 092F087

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 / Terrabits

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 displayed is the most current available up to date. Geological, administrative boundaries and the Ownership colour theme are for reference purposes only. (Legend Revised June 2014).

Labels Projected To: January 1, 2016

**MAP SYMBOLOGY**

**Forest Inventory Features:**
- Forest Vegetation Polygons
- Non-forest Opening in Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

**TRIM - Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Ski Fields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Reservoirs - 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 Licences - 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
Species are listed in order of predominance. Major first Minor in brackets.
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**

OP - opening number valid for BCGS mapsheet
ENVR - 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 |
| Dr | 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 |
| Hm | Mountain Hemlock |
| Hw | Western Hemlock |
| Hxm | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jd | Rocky Mtn. Juniper |
| Js | Sweetbr Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pa | Whitebark Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Plc | Lodgepole Pine (interior) |
| Plg | Lodgepole x Jack Pine hybrid |
| Pli | Lodgepole Pine (coastal) |
| Po | Shore Pine (coast) |
| Pw | Western White Pine |
| Py | Ponderosa Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Cgelmann x White |
| Sxs | Sitka x White |
| Sxl | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| A | ALDER |
| D | Red Alder |
| Ut | APPLE |
| Up | Pacific Crab Apple |
| Act | BLACK COTTONWOOD or POPLAR |
| Ac | Poplar |
| Asb | Balsam Poplar |
| Act | Black Cottonwood |
| Ax | Hybrid Poplars |
| Ar | Trembling Aspen |
| E | ARBUTUS |
| Ra | Arbutus |
| Ep | BIRCH |
| Ea | Alaska Paper Birch |
| Eap | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| Ey | Yellow Birch |
| Kc | Cascara |
| V | CHERRY |
| Vs | Bitter Cherry |
| Vt | Black Cherry |
| Vp | Pin Cherry |
| G | DOGWOOD |
| Gp | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Mv | Vine Maple |
| Q | OAK |
| Qg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Bartley's) |
| Wd | Pussy Willow (gray leaved) |
| Wy | Scouler's Willow |
| Wl | Sitka Willow (low leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| Ua | APPLE<br>Apple |
| Act | ASPEN, COTTONWOOD or POPLAR<br>*Southern Cottonwood |
| Ae | Aspen |
| Ea | European Birch |
| Ek | Silver Birch (swamp) |
| Ev | Common Birch<br>Gld Birch |
| Vs | Sweet Cherry |
| Y | CYPRESS |
| Yo | *Port Orford Cedar |
| Lk | LARCH<br>*Eastern Larch |
| Lx | *Dahurian Larch |
| M | MAPLE |
| Mr | *Red Maple |
| Mr | *Norway Maple |
| Ms | *Sycamore Maple |
| O | OAK |
| Oa | *English Oak |
| Ow | *White Oak |
| | OTHER EXOTICS |
| Cw | *Incense Cedar |
| Cp | *Port Orford |
| Cr | *Coast Redwood |
| Ot | European Mountain Ash |
| Ob | *Black Locust (acacia) |
| Of | Common Fig |
| Og | Dragon Ash |
| Oe | *Elm spp. |
| Oi | *Shagbark Hickory |
| Oj | Tree-of-Heaven |
| Ok | Japanese Walnut |
| | PINE |
| Pm | *Monterey Pine |
| Pr | *Red Pine |
| Ps | *Scots Pine<br>*Pinaster |
| 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 20 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 are not present, e.g. young stands (<10yrs). 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-TREE SHRUB**
- s SHRUB (ALL) - shrub with average shrub height > or = to two metres.
- d SHRUB (DWARF) - shrub with average shrub height < two metres.

**NON-TREE HERB**
- he HERB - herb with no distinction between forbs and graminoids.
- h HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

**NON-TREE BRYOID**
- bc BRYOID - MOSS - bryoid with no distinction between mosses and lichens by cover.
- b BRYOID - LICHENS - bryoid with mosses, liverworts, and lichens is > 50% of the bryoid cover.

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

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUD/FLAT SEDIMENT |
| bl | BEACH | la | LAKE | mz | RUBBLY MINE SPOILS |
| bf | BOG/FIELD | lk | LANDING | ol | OTHER |
| k | BEDROCK | l | LANDING | ol | OTHER |
| ds | BURNED AREA | ls | POND or LAKE SEDIMENTS | ps | SNOW COVER |
| cp | CUTBANK | mi | OPEN PIT MINE | rc | RESERVOIRS |
| sl | EXPOSED SOILS | mo | MORAINE | ri | RIVERS/STREAMS |
| w | ICE/SNOW | | | | |

Note: Water categories (ie, sc, re, ri) not labeled over 90 percent coverage.

| | | | |
|---|---|---|---|
| mm | RESERVOIR MARGIN | | |
| rm | RAILWAY SURFACE | | |
| rn | ROAD SURFACE | | |
| ro | ROAD SURFACE | | |
| ta | TALUS | | |
| tz | TAILINGS | | |
| u | URBAN | | |

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

| | | | |
|---|---|---|---|
| ALPINE | NP | NON-PRODUCTIVE | SAND SAND |
| AF ALPINE FOREST-Species | NPBR | NON-PRODUCTIVE BRUSH | TIDE TIDAL FLAT |
| C CULTIVATED | NPBU | NON-PRODUCTIVE BURN | U URBAN |
| FOR FOREST | NPFL | NON-PRODUCTIVE FOREST-Species | |
| G GRASS | NPLK | NOT STOCKABLE/LAKE | NC NON COMMERCIAL |
| GR GRAVEL PIT | OR | OPEN RANGE | NCBR NON COMMERCIAL BRUSH |
| ICE ICEFIELD | P | WATERED | NP NON PRODUCTIVE |
| M MEADOW | R | ROCK | NSR NOT SUFFICIENTLY RESTOCKED |
| NOG NO GRASS | S | SWAMP | NTA NOT STOCKABLE |

**Line 6 - Disturbance History**

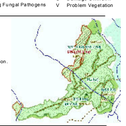
Disturbance type code preceeded by symbol, followed by earliest date.
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

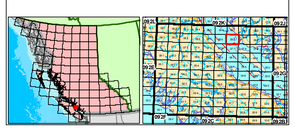
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mde Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | | |
| R | Site Rehabilitation | | |
| S | Silvicultural Treatment | |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

**Example Opening History Details**

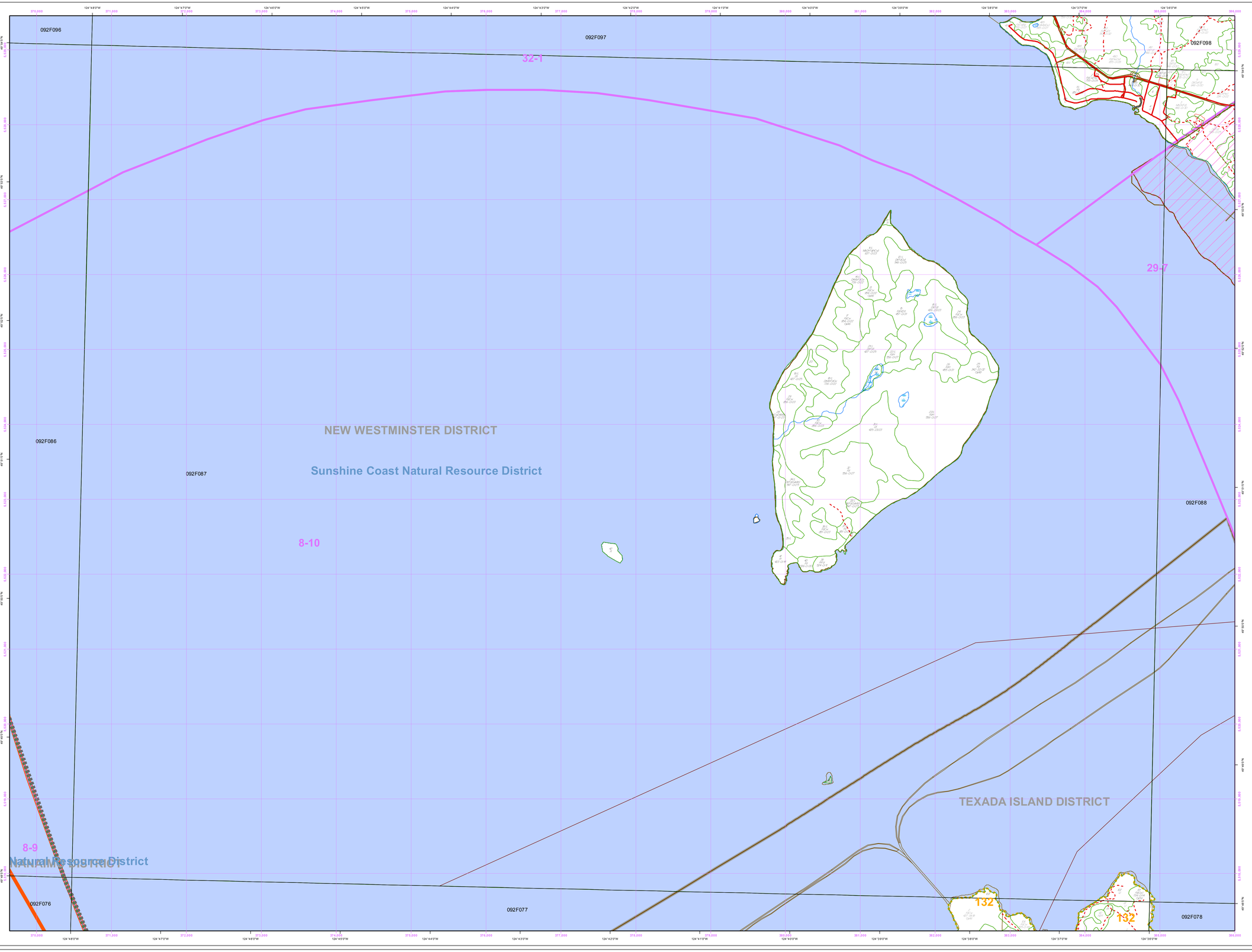
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of the next RESULTS data.

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**

092F087