093N082

# Vegetation Map
# 093N082

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 - VRIM3 / 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
- Sructurbe Opening in Vegetation
- Permanent Sample Plot (SP0)
- Research Installations

**TRIM_Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Fields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNonBarriers - 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 Opening Number 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: D = Dense - trees with crowns touching and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1978

**Line 1 - History Record Opening Number**

OGP - opening number valid for BCGS mapsheet — OSW - opening number has not been assigned

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

VRIM3 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 |
| H | HEMLOCK |
| Hw | Western Hemlock |
| Hm | Mountain Hemlock |
| Hxm | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Seaside Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plc | Lodgepole Pine (coastal) |
| Plx | Lodgepole Pine (contorta) hybrid |
| Py | Ponderosa Pine (yellow) |
| Pp | Shore Pine (coastal) |
| Pw | Western White Pine |
| Py | Whitebark Pine |
| S | SPRUCE |
| Se | Englemann Spruce |
| Sx | Englemann Spruce |
| Ss | Sitka Spruce |
| Sxs | Spruce hybrid |
| Sxx | Spruce hybrid |
| Sxw | Englemann x White |
| Sxl | Englemann x Sub |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| V | ARBUTUS |
| Up | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| At | Poplar |
| Ac | Balsam Poplar |
| Act | Black Cottonwood |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| G | BIRCH |
| Ep | Alaska Paper Birch |
| Epx | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| C | CASCARA |
| E | Cascara |
| W | WILLOW |
| Wc | Sitka Willow |
| Wp | Pacific Willow |
| Wa | Peachleaf Willow (Booscay's) |
| Wr | Rocky Mountain Willow (Barrett) |
| Ws | Scouler's Willow |
| Wt | Sitka Willow (tea-leaved) |
| X | **UNKNOWN - OTHER** |
| X | UNKNOWN |
| Xh | unknown broadleaf |
| Xh | unknown hardwood |
| Z | OTHER (tree not on list) |
| Zx | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| | APPLE |
| Ua | Apple |
| | ASPEN, COTTONWOOD or POPLAR |
| Ad | Northern Cottonwood |
| | BIRCH |
| Ea | European Birch |
| Es | Silver Birch (swamp) |
| Ey | Yellow Birch |
| | CHERRY |
| Ys | Bird Cherry |
| | CYPRESS |
| Yp | Port Orford Cedar |
| | LARCH |
| Lj | Dahurian Larch |
| Ld | European Larch |
| | MAPLE |
| Mb | Box Elder |
| Mr | Red Maple |
| Mb | Norway Maple |
| | OAK |
| Qa | English Oak |
| Qe | White Oak |
| | OTHER EXOTICS |
| Qa | Black Locust |
| Qs | Giant Sequoia |
| Qc | Coast Redwood |
| Ou | Common Horsechestnut Ash |
| Oa | Siberian Elm (autumn) |
| Of | Common Pear |
| Ob | Black Walnut |
| Oa | White Ash |
| Oh | Shagbarck Hickory |
| Ol | Japanese Larch |
| Ot | Japanese Maple |
| | PINE |
| Pm | Monterey Pine |
| Pi | 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 - 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 may be estimated directly from height sampling. 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 aremot present; eg. Immature stands, MR, CWH, CDF, and ESSF where SI is always presolve 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**
- s - SHRUB - shrub with average shrub height > or = to two metres.
- si - SHRUB LOW - shrub with average shrub height < two metres.

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

**NON-TREED BRYOID**
- b - 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)**

| | | | | | |
|---|---|---|---|---|---|
| ap | AIRPORT | gr | GRAVEL PIT | mu | MUDFLAT SEDIMENT |
| b | BARREN | h | HEADWALL | mv | MUSKEG MIRE SPOILS |
| br | BEDROCK | ls | LAKE BED | oc | OCEAN |
| cr | CULTIVATED AREA | li | LANDING | ot | OTHER |
| cu | CUTBANK | ls | LAKE SEDIMENTS | rc | RIVER CHANNEL COVER |
| es | EXPOSED SOILS | rs | OPEN PIT MINE | re | RESERVOIR |
| gl | GLACIER | rm | MORAINE | r | RIVER / STREAM |

Note: Water categories (a, ac, w, r) not labelled over 90 percent coverage.

| | | | | | |
|---|---|---|---|---|---|
| rm | RESERVOIR MARGIN | | | | |
| rs | RIVER SEDIMENTS | | | | |
| ri | ROAD SURFACE | | | | |
| s | SNOW | | | | |
| ta | TAILINGS | | | | |
| ur | URBAN | | | | |

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

| | | | | | |
|---|---|---|---|---|---|
| A | ALPINE | NPBC | NON PRODUCTIVE BRUSH | SAND | SAND |
| AF | ALPINE FOREST (Species | NPBE | NON PRODUCTIVE ERLISH | TIDE | TIDAL FLAT |
| C | CULTIVATED | NPBU | NON PRODUCTIVE BURN | U | URBAN |
| CL | CLAY BANK | NPF | NON PRODUCTIVE FOREST (Species | | |
| GP | GRAVEL BAR | NTA | NO TYPING AVAILABLE | NC | NON COMMERCIAL |
| MU | MUSKEG | OT | OTHER | NCBR | NON COMMERCIAL BRUSH |
| SE | SEEPAGE | PF | NATIELD | NP | NON PRODUCTIVE |
| M | MEADOW | R | ROCK | NSR | NOT SUFFICIENTLY RESTOCKED |
| SW | SWAMP | S | SAND | 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.

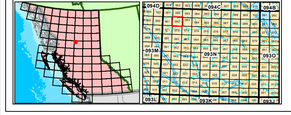
| | | | | | |
|---|---|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| B | Wildfire | M | Mite Damage | T | Treatment Injuries |
| C | Cone and Seed Insects | N | Non-Biological Injuries | U | Damage Unknown |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |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

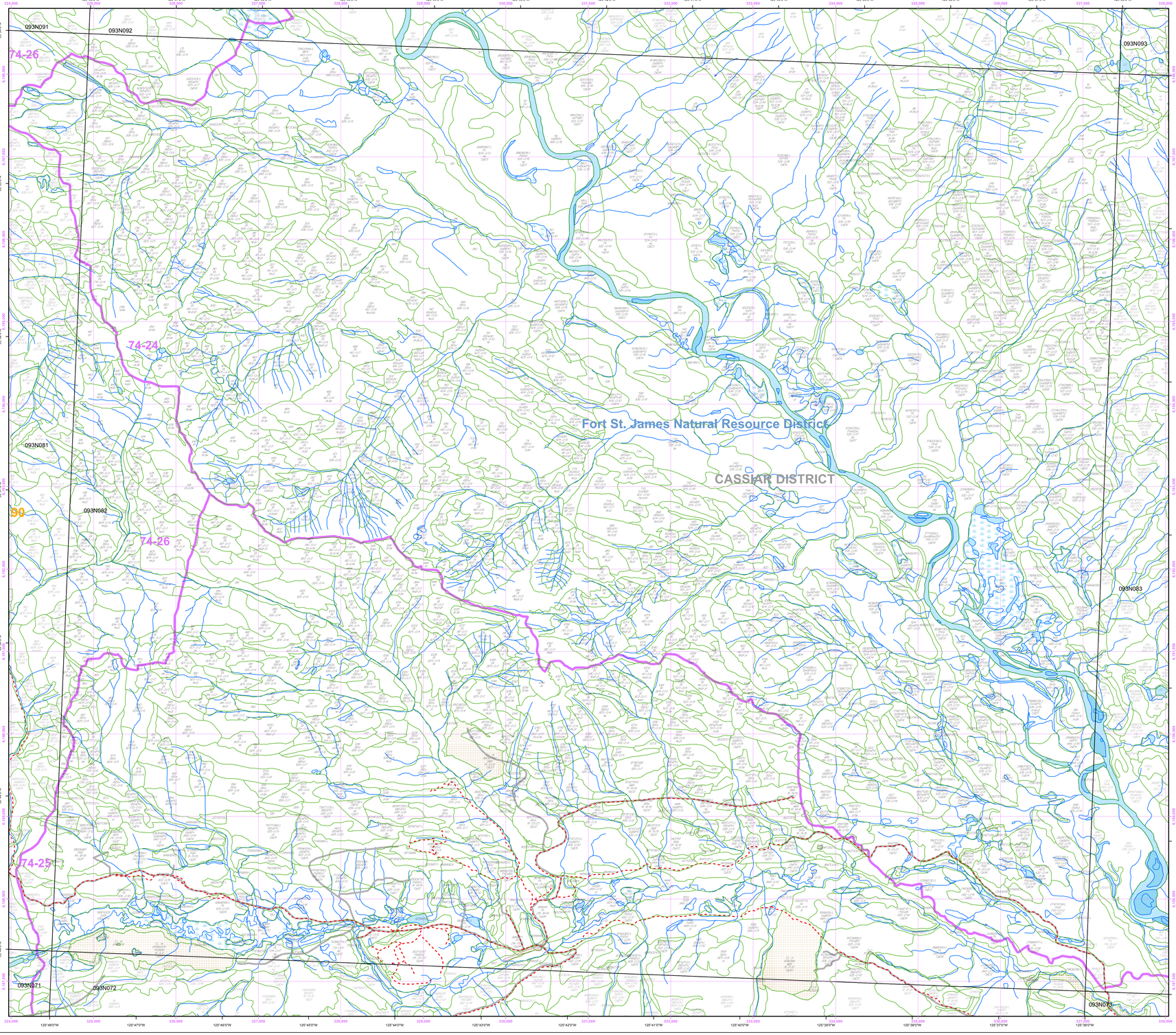
**Example Opening History Details**

Detailed Silviculture information is available on the BCGW
Silviculture Activity Treatment Unit. 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
- WILDLIFE FOREST COVER
- WILDLIFE TREE PATCH




Overflow Labels

093N082