Vegetation Map

# 103H094

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 / 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
- Silviculture 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
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNavBarriers - 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:**

O12
123/L
Fd(Hw)
211-20
he,sl
GL78

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: 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 Opeing Number**

O12 - opening number valid for BCGS mapsheet   blank - 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 Compsition: 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 |
| 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 hydrid |
| J | JUNIPER |
| Jr | Rocky Mtn. Juniper |
| Js | Seaside Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pf | Limber Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Pxj | Lodgepole x Jack Pine hybrid |
| Py | Ponderosa Pine (yellow) |
| Plc | Shore Pine (coast) |
| Pw | Western White Pine |
| Pa | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Engelmann x White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| U | APPLE |
| Up | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Acb | Balsam Poplar |
| Act | Black Cottonwood |
| Ax | hybrid Poplars |
| At | Trembling Aspen |
| R | ARBUTUS |
| Ra | Arbutus |
| E | BIRCH |
| Ea | Alaska Paper Birch |
| Exp | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| K | CASCARA |
| Kc | Cascara |
| V | CHERRY |
| Vb | Bitter Cherry |
| Vv | Choke 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 |
| Wa | Peachleaf Willow (Barclay's) |
| Wd | Pussy Willow (gray-leaved) |
| Ws | Scouler's Willow |
| Wt | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

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

**EXOTICS**

| | |
|---|---|
| | APPLE |
| Ua | Apple |
| | ASPEN, COTTONWOOD or POPLAR |
| Ad | *Southern Cottonwood |
| | BIRCH |
| Ee | European Birch |
| Es | Silver Birch (swamp) |
| Ey | *Yellow Birch |
| | CHERRY |
| Vs | Sweet Cherry |
| | CYPRESS |
| Yp | *Port Orford Cedar |
| | FIR (Balsam) |
| Bb | *Balsam Fir |
| Bp | Noble Fir |
| Bm | *Shasta Red Fir |
| Bc | *White Fir |
| | LARCH |
| Ld | *Dahurian Larch |
| Ls | *Siberian Larch |
| | MAPLE |
| Me | Box Elder |
| Mn | *Norway Maple |
| Ms | *Sycamore Maple |
| | OAK |
| Qe | *English Oak |
| Qw | *White Oak |
| | OTHER EXOTICS |
| Oa | *Incense Cedar |
| Ob | *Giant Sequoia |
| Oc | *Coast Redwood |
| Od | European Mountain Ash |
| Oe | Siberian Elm (southern) |
| Of | Common Pear |
| Og | Oregon Ash |
| Oh | *White Ash |
| Oi | *Shagbarck Hickory |
| Oj | Tree-of-heaven |
| Ok | Japanese Walnut |
| | PINE |
| Pm | *Monterey Pine |
| Pr | *Red Pine |
| Ps | *Sugar 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 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 (<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**
- st SHRUB TALL - shrub with average shrub height > or = to two metres.
- sl 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 - GRAMINOIDS - herb with gaminoids > 50% of the herb cover.

**NON-TREED BRYOID**
- by BRYOIDS - 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**
- el Exposed Land
- ro Rock / Rubble
- si Snow / Ice

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT | mu | MUDFLAT SEDIMENT | rm | RESERVOIR MARGIN |
| be | BEACH | la | LAKE | mz | RUBBLY MINE SPOILS | rn | RAILWAY SURFACE |
| bl | BLOCKFIELD | lb | LAVABED | oc | OCEAN | rs | RIVER SEDIMENTS |
| br | BEDROCK | ll | LANDING | ot | OTHER | rz | ROAD SURFACE |
| bu | BURNED AREA | ls | POND or LAKE SEDIMENTS | pn | SNOW COVER | ta | TALUS |
| cb | CUTBANK | mi | OPEN PIT MINE | re | RESERVOIR | tz | TAILINGS |
| es | EXPOSED SOILS | mn | MORAINE | ri | RIVER / STREAM | ur | URBAN |
| gl | GLACIER | | | | | | |

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

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

| | | | | | |
|---|---|---|---|---|---|
| A | 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 |
| CL | CLAY BANK | 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 |
| ICE | ICEFIELD | P | HAYFIELD | NP | NON PRODUCTIVE |
| M | MEADOW | R | ROCK | NSR | NOT SUFFICIENTLY RESTOCKED |
| MUD | MUD FLAT | S | SWAMP | NTA | NO TYPING AVAILABLE |

**Line 6 - Disturbance History**

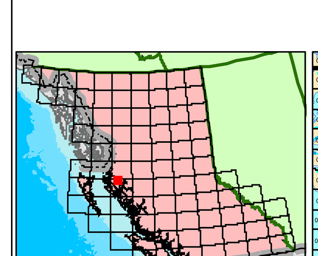
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

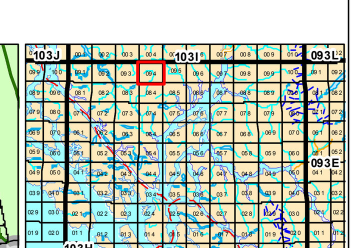
| | | | | | |
|---|---|---|---|---|---|
| A | Animal Damage | L | Logging | R | Site Rehabilitation |
| B | Wildfire | M | Mite Damage | T | Treatment Injuries |
| C | Cone and Seed Insects | N | Non-Biological Injuries | U | Damage Unknown |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |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

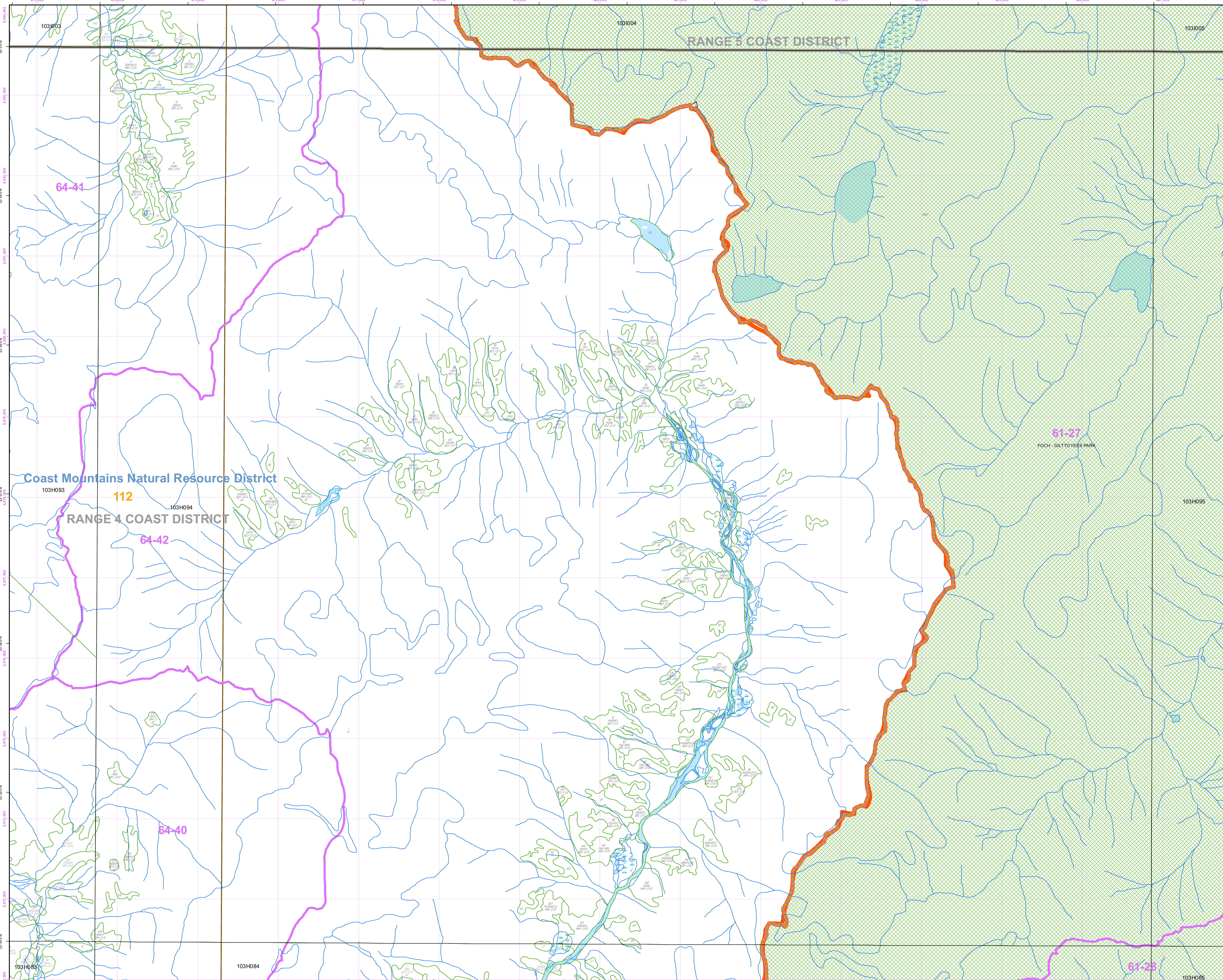
**Example Opening History Details**

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

| | |
|---|---|
| 3 HwBa(Yc) 935-0/10 | 92 HBa 932-0/9 AF |
| 5 HwBa(Yc) 934-0/10 | 93 HBa 933-0/9 |
| 7 H(YcBa) 814-0/3 | 95 HmBa(Yc) 933-0/4 |
| 9 HwBa 936-0/10 | 96 HmBaYc 932-0/3 AF |
| 16 HYc 933-0/7 | 97 HmYc(Ba) 923-0/3 AF |
| 17 HwBa(Yc) 945-0/11 | 98 HBa(Yc) 943-0/10 |
| 22 H(YcBa) 935-0/8 | 104 HwCwBa(Ss) 944-0/11 |
| 23 HBa 946-0/10 | 108 HmYc 924-0/3 |
| 24 BaHw 943-0/9 | 109 HmYc 923-0/2 AF |
| 25 HBa(Yc) 944-0/10 | 110 HmYc 924-0/2 AF |
| 34 HwBa 944-0/10 | 113 Hm(YcCw) 814-0 AF |
| 36 HBa(Yc) 934-0/9 | 116 HwBa(Yc) 933-0/9 |
| 40 HwBa(SsYc) 945-0/14 | 117 HCwBa(Yc) 934-0/8 |
| 43 HYc 923-0/7 AF | 122 BaHwSs 954-0/14 |
| 44 HYc 923-0/7 AF | 123 HYc(Ba) 934-0/8 |
| 50 HYc(Ba) 934-0/8 | 126 HYc 923-0/6 AF |
| 51 HYc(Ba) 933-0/8 | 127 HBaYc 933-0/8 AF |
| 52 HYcBa 933-0/9 | 129 HBaYc 935-0/8 |
| 55 HmYc 923-0/3 | 131 HYc(Ba) 914-0/3 AF |
| 63 YcHm 913-0/4 AF | 132 HwCwBa 944-0/10 |
| 65 HBa(Yc) 933-0/9 | 135 HwBa 944-0/12 |
| 66 HBaYc 934-0/8 | 136 HwBa 945-0/10 |
| 67 HYc 932-0/8 AF | 137 HwBa 934-0/10 |
| 72 HmYc 813-0/2 AF | |
| 74 HmYc 915-0 AF | |
| 75 HmBa(Yc) 924-0/3 | |
| 78 HmYc 934-0/4 | |
| 79 HmYc 933-0/4 | |
| 80 HmBa(Yc) 934-0/4 | |
| 81 HmBa(Yc) 933-0/3 | |
| 83 HmYc 934-0/4 | |
| 85 HmYc 924-0/3 | |
| 87 HmYc 933-0/3 AF | |
| 90 HBaYc 933-0/7 | |
| 91 HBa(Yc) 933-0/9 | |