093K099

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093K099

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
- Structure Opening in Vegetation
- Permanent Sample Plot (VRI3)
- Research Installations

TRIM_Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airstrips
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofix/Barriers - ESRI
- Watercourses - ESRI
- Waterbodies - ESRI
- Wetlands - ESRI
- Ocean - ESRI

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 (= 1:250,000 ha) - 15 % hatch)
- Municipal boundary (= 1:250,000 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 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 (Douglas Fir) and Hw (Western Hemlock).
4a Age Class 2 (21-40 yrs), 4b Height Class 3 (10.5-19.4 metres), 4c Crown Closure Class 4 (Estimated SI)
ex: stand in age class 2 (21-40 yrs), height class 3 (10.5-19.4m), crown closure class 5 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Description)
ex: a fields 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

---- - opening number valid for BCGS mapsheet
nnn - 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
- Cw Western Red Cedar
- Y YEW
- Yc Yellow Cedar
- F DOUGLAS FIR
- Fd Coastal Douglas Fir
- Fdi Interior Douglas Fir
- Fm Mixed Douglas Fir
- Fx Hybrid 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
- Jr Rocky Mtn. Juniper
- Js Sealskin Juniper
- L LARCH
- La Subalpine Larch
- Lt Tamarack
- Lw Western Larch
- P PINE
- Pj Jack Pine
- Pl Lodgepole Pine
- Plc Lodgepole Pine (contorta)
- Plcl Lodgepole x Jack Pine hybrid
- Pli Lodgepole Pine (latifolia)
- Pfo Shore Pine (Coastal)
- Pw Western White Pine
- Pxj Jack Pine x White Pine
- S SPRUCE
- Sb Black Spruce
- Se Engelmann Spruce
- Sh Sitka Spruce
- Sw White Spruce
- Sx Hybrid Spruce
- Sxe Englemann x White
- Sxl Sitka x White
- Sxs Sitka x unknown hybrid
- YEW
- Tw Western Yew

NATIVE HARDWOODS
- ACTOR
- Dr Red Alder
- Ep APPLE
- Pyu Pacific Crab Apple
- At ASPEN, COTTONWOOD or POPLAR
- Ac Poplar
- Act Black Cottonwood
- Ati Trembling Aspen
- Ax Hybrid Poplars
- Aw Large Toothed Aspen
- B ARBUTUS
- Bp BIRCH
- Ba Alaska Paper Birch
- Bpg Alaska Paper Birch hybrid
- Ep Paper Birch (white)
- Ew Water Birch
- Bb Resin Birch
- Ca Catkins
- V CHERRY
- Vm Black Cherry
- Vc Choke Cherry
- Vp Pin Cherry
- Vx Hybrid Cherry
- D Pacific Dogwood (western flowering)
- M MAPLE
- Mb Big Leaf Maple (broadleaf)
- Mv Vine Maple
- Q OAK
- Qg Garry Oak
- W WILLOW
- Wb Bebb's Willow
- Wp Pacific Willow
- Wa Peachleaf Willow (Banksy's)
- Ww Pussy Willow (gray-leaved)
- Wr Red Willow
- Ws Sitka Willow (tea-leaved)

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

EXOTICS
- PICEA
- Ls Alpine
- At ASPEN, COTTONWOOD or POPLAR
- Asl Southern Cottonwood
- BIRCH
- Be European Birch
- Ekl Silver Birch (swamp)
- Ey Yellow Birch
- Ep Paper Birch
- Ys Sweet Cherry
- CHERRY
- Ye Mahaleb Cherry
- CYPRESS
- Yp Port Orford Cedar
- FIR (Balsam)
- Bal Balkam Fir
- Bc Noble Fir
- Bm Nikaido Fir
- Bs White Fir
- LARCH
- Lsl Siberian Larch
- Ld Dahurian Larch
- Mk Box Elder
- MI Norway Maple
- Mp Japanese Maple
- OAK
- Qe English Oak
- Qr Red Oak
- OTHER EXOTICS
- Oa Incense Cedar
- Ob Monterey Cypress
- Oc Coast Redwood
- Od European Mountain Ash
- Oe Common Hackberry
- Of Common Pear
- Og Oregon Ash
- Oh Horsechestnut
- Oi Shagbarks Hickory
- Oj Tree-of-heaven
- Ok Japanese Walnut
- PINE
- Pm Monterey Pine
- Pp Ponderosa Pine
- Py Hybrid 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)
D	0 - 5
T	6 - 15
1	16 - 25
2	26 - 35
3	36 - 45
4	46 - 55
5	56 - 65
6	66 - 75
7	76 - 85
8	86 - 100

4d SITE INDEX
SI is an estimate of 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 measurements, another, or replace the SI.

4e. ESTIMATED SITE INDEX
SI is estimated when suitable SI trees cannot present, e.g. young stands (<30yrs). It is described by a stem 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
- S SHRUB TALL - shrub with average shrub height > or = to two metres.
- SL SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- hw HERBS - 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-TREED BRYOID
- 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
- R Rock Outcrop
- rs Rock Rubble
- ss Snow / Ice

NON VEGETATED CATEGORIES (for V and I records)
- ap AIRPORT
- bl BOULDERS
- br BEDROCK
- cb CONSTRUCTION
- cr CUTBANK
- es EXPOSED SOILS
- gp GRAVEL PIT
- l LAKE
- lb LANDING
- ls LAKE SEDIMENTS
- mn MORAINE
- mu MUDFLAT SEDIMENT
- ow OVERBURDEN SPOIL
- o OCEAN
- pl POND
- rc ROCK COVER
- rv RESERVOIR
- r RIVER / STREAM
- rm RESERVOIR MARGIN
- rs RIVER SEDIMENTS
- rd ROAD SURFACE
- s SAND
- t TAILINGS
- u URBAN

Note: Water categories (lk, o, pl, rv, rs) are not labelled over the ocean coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for I record)
- AF ALPINE FOREST
- AFF ALPINE FOREST Species
- C CULTIVATED
- D DISTURBED
- GR GRASS
- GR GRAVEL PIT
- M MEADOW
- W MEADOW
- MUD MUDFLAT
- NPBR NON PRODUCTIVE BRUSH
- NPBU NON PRODUCTIVE BURN
- NPF NON PRODUCTIVE FOREST Species
- NYA NO TYPING AVAILABLE
- OR OPEN RANGE
- R ROCK
- S SWAMP
- SAND SAND
- TIDA TIDAL FLAT
- U URBAN
- NC NON COMMERCIAL
- NCBR NON COMMERCIAL BRUSH
- NFOR NON FOREST
- NOR NOT SUFFICIENTLY RESTOCKED
- NTA NO TYPING AVAILABLE

Line 6 - Disturbance History

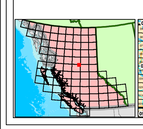
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

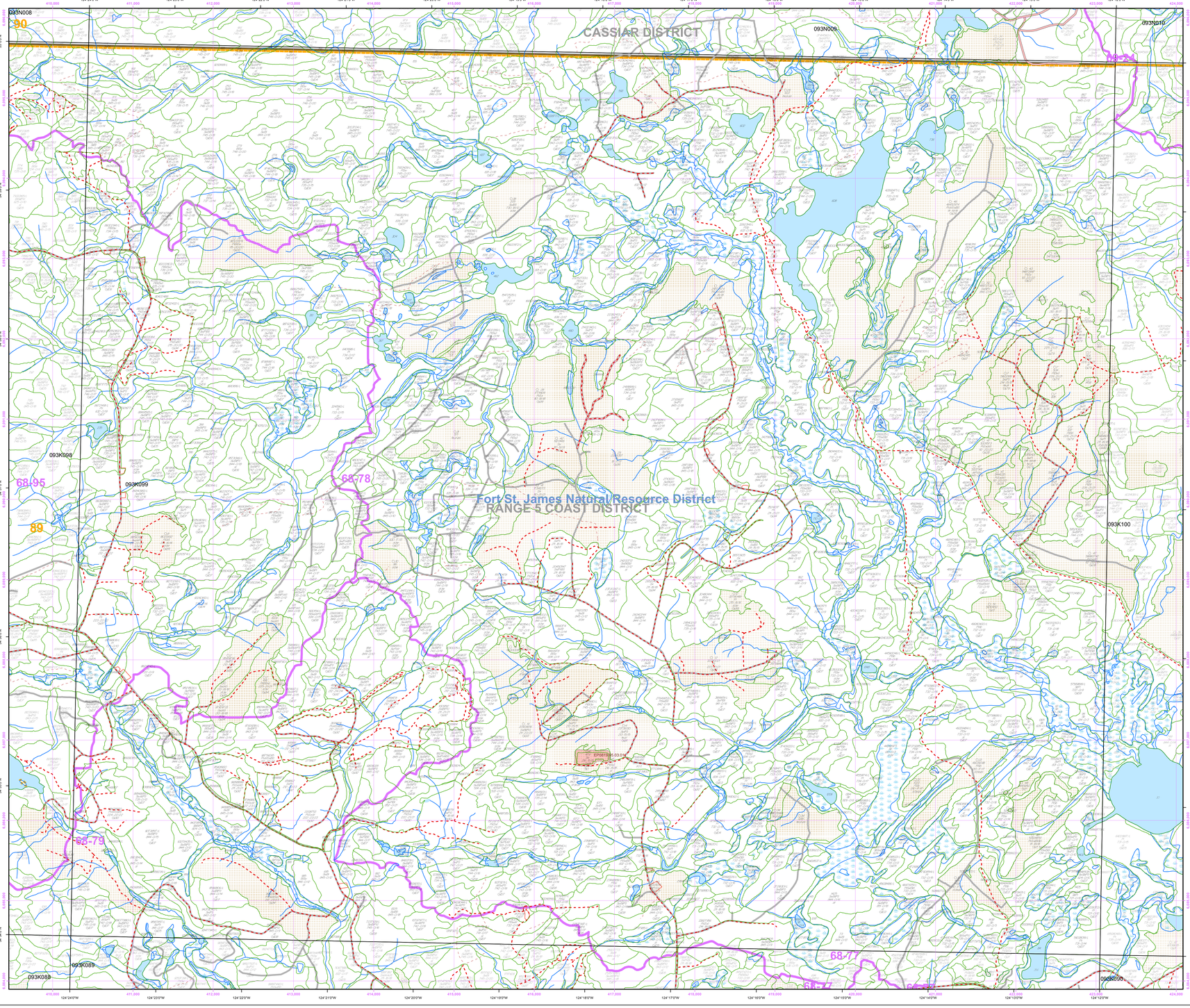
- A Animal Damage
- B Wildfire
- C Cone and Seed Insects
- D Diseases - Insects
- L Logging
- M Mine Damage
- N Non-Biological Injuries
- P Cone and Seedling Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either MF 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
- SILVICULTURE TREATING ACTIVITY
- ACTIVITY TREATMENT UNIT
- STANDARDS UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH





Overflow Labels

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