093M021

Vegetation Map
093M021

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
- Hydro/Nat/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:

CL2 / E3 / Fd/Pw/Hw / 3m / 0627 / 0629

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 class, Site Index Curve, Crown Closure class, Height class / estimated SI
ex: age class 3, curve 3 (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

CL2 - opening number valid for BCGS mapsheet
ZCL2 - 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 - SC 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 YEW
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
Hmm Mountain Hemlock
Hxm Mountain x Western Hemlock hybrid
J JUNIPER
Jr Rocky Mtn. Juniper
Js Sawcock Juniper
L LARCH
La Alpine Larch
Lt Tamarack
Lw Western Larch
P PINE
Pj Jack Pine
Pl Lodgepole Pine
Pli Lodgepole Pine (interior)
Plg Lodgepole x Jack Pine hybrid
Py Ponderosa Pine (yellow)
Pyi Shore Pine (coast)
Pw Western White Pine
Pwa Whitebark Pine
S SPRUCE
Sb Black Spruce
Se Engelmann Spruce
Si Sitka Spruce
Sw White Spruce
Sx Spruce hybrid
Sxb Spruce hybrid x White
Sxi Sitka x White
Sxs Sitka x unknown hybrid
T YEW
Tw Western Yew

NATIVE HARDWOODS
D ALDER
Dr Red Alder
U ASPEN
Ac Poplar, Cob-Apple
At ASPEN, COTTONWOOD or POPLAR
Ati Poplar
Atm Balsam Poplar
Atr Black Cottonwood
Ax hybrid Poplars
Aw Trembling Aspen
R ARBUTUS
Rb Arbutus
E BIRCH
Ea Alaska Paper Birch
Ep Paper Birch (Alaska hybrid)
Ew Paper Birch (white)
Ew Water Birch
K CASCARA
Kc Cascara
G CHERRY
Gb Bitter Cherry
Vc Choke Cherry
Vv Pin Cherry
E DOGWOOD
Gp Pacific Dogwood (western flowering)
M MAPLE
Mb Bigleaf Maple (broadleaf)
Mv Vine Maple
O OAK
Gg Garry Oak
Wo Oregon Oak
W WILLOW
Wb Black Willow
Wp Pacific Willow
Wp Peachleaf Willow (Bartcby's)
Wr Rusty Willow (gray-leaved)
Ws Scouler's Willow
Wsi Sitka Willow (tea-leaved)

UNKNOWN - OTHER
D UNKNOWN
Xc unknown conifer
Xh unknown hardwood
Xl Larch (cone not on tat)
Z other species
Zh other hardwood

EXOTICS
AP APPLE
Ua Apple
Ae ASPEN, COTTONWOOD or POPLAR
Act Eastern Cottonwood
BI BIRCH
Ea European Birch
Ek Asian Birch (swamp)
Ey Yellow Birch
CH CHERRY
Ys Sweet Cherry
CY CYPRESS
Yp Nootka Sound Cedar
FP FIR (balsam)
Bb *Balsam Fir
Bn *Noble Fir
Bpn *Shasta Red Fir
Bc *White Fir
LA LARCH
Ld *Dahurian Larch
Lk *Japanese Larch
MAPLE
Me Box Elder
Mn *Norway Maple
Ms *Sycamore Maple
OAK
Qg *English Oak
Qw *White Oak
OTHER EXOTICS
Cw *Incense Cedar
Ob *Giant Sequoia
Oc *Coast Redwood
Oe European Mountain Ash
Oes Siberian Elm (southern)
OF Common Pear
Og Oregon Ash
Ok *White Ash
Ol *Black Locust, Honey
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 estimated for the primary or major 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 arenot present, e.g. recent disturbance. SI is based on local yield curves or previous provides it. Associated fields in the data base are Inventory Type Group and SI Estimated source code.

Line 5 - Vegetation records

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

NON-TREED SHRUB
- w SHRUB TALL - shrub with average shrub height > or = to two metres.
- s SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- hw HERB
- hf HERB - FORBS - herb with no distinction between forbs and graminoids.
- hg HERB - GRAMINOIDS - herb with forbs > 50% of the herb cover.
- herb with graminoids > 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
- at Exposed Land
- ro Rock / Rubble
- si Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

- ap AIRPORT
- be BEACH
- bf BOG SHIELD
- br BEDROCK
- bu BURNED AREA
- cl CLEARING
- ex EXPOSED SOILS
- gl GLACIER
- gp GRAVEL PIT
- la LAKE
- lb LAKE BED
- li LANDING
- lk POND or LAKE SEDIMENTS
- mi MINE or MINE SPOIL
- rn RIVER / STREAM
- mu MUDFLAT SEDIMENT
- mv ROBBLY MINE SPOILS
- ms ROCK
- oi OTHER
- pn SNOW COVER
- sa SPOIL AREA
- rr RESERVOIR MARGIN
- rw RAILWAY SURFACE
- rs RIVER SEDIMENTS
- rd ROAD SURFACE
- ta TALUS
- tz TAILINGS
- ur URBAN

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

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

- A ALPINE
- af ALPINE FOREST /Species
- C CULTIVATED
- D DUGOUT
- G GRAVEL BAR
- GR GRAVEL PIT
- ICE ICEFIELD
- M MEADOW
- MUD MUDFLAT
- NP NON-PRODUCTIVE
- NPBR NON PRODUCTIVE BRUSH
- NPBU NON PRODUCTIVE BURN
- NPF NON PRODUCTIVE FOREST /Species
- NTA NO TYPING AVAILABLE
- OR OPEN RANGE
- P HAYFIELD
- R ROCK
- S SWAMP
- SAND SAND
- TIDE TIDAL FLAT
- U URBAN
- NC NON COMMERCIAL
- NCBR NON COMMERCIAL BRUSH
- NP NON PRODUCTIVE
- NSR NOT SUFFICIENTLY RESTOCKED
- 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.

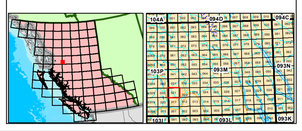
- A Arterial Damage
- C Cone and Seed Insects
- D Diseases
- I Insects
- L Logging
- M Mite Damage
- N Non-Biological Injuries
- P Cone and Seeding Fungal Pathogens
- R Site Rehabilitation
- T Treatment Injuries
- U Damage Unknown
- V Problem Vegetation

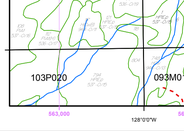
Example Opening History Details

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





Overflow Labels

093M021

093M021