093M098

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093M098

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 or Vegetation
- Permanent Sample Plot (CVTS)
- Research Installations

TRIM, Base Features:
- 4x 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
- Hydrolns-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:

OP1 / 90 / 1 / FdPlw1 / 20 / 3 / 5 / 1978

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 Inventory Type Group or Biogeoclimatic Site Association
ex. a herb polygon distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Opening Number

OP1 - opening number valid for BCGS mapsheet

OP2000 - 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 labelled 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
Yc	Yellow Cedar
H	HEMLOCK
Fd	DOUGLAS FIR
Fdi	Douglas Fir
Fdc	Coastal Douglas Fir
Fdf	Douglas Fir (inland)
B	FIR (Balsam)
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hw	Western Hemlock
Hm	Western Hemlock
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Af	Rocky Mtn. Juniper
Ac	Common Juniper
L	LARCH
La	Alpine Larch
Lw	Tamarack
Lt	Western Larch
P	PINE
Pa	Lodge Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coastal)
Pxj	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pa	Whitebark Pine
Pf	Limber Pine
Sx	Black Spruce
Se	Engelmann Spruce
Sx	Sitka Spruce
Sw	White Spruce
Sxw	Spruce Hybrid
Sxe	Englemann x White
Sxl	Sitka x White
Sxw	White x Lutzeen hybrid
Y	YEW
Yw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Up	Pacific Crab Apple
At	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Act	Balsam Poplar
Ad	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
E	BIRCH
Ea	Alaska Paper Birch
Eal	Alaska x Paper Birch hybrid
Ew	Water Birch (white)
Ew	Water Birch
K	CASCARA
K	CASCARA
Y	CHERRY
Ys	Bitter Cherry
Yt	Choke Cherry
Yv	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
Qg	OAK
Ww	Bebb's Willow
Wp	Pacific Willow
Wa	Peachleaf Willow (Bebb's?)
Ww	Pussy Willow (pity-leaved)
Wr	Scouler Willow
Wf	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

Ua	APPLE
Ua	Apple
At	ASPEN, COTTONWOOD or POPLAR
Ad	Southern Cottonwood
Ae	Aspen
Eu	European Birch
Ep	Silver Birch (swamp)
Ev	Silver Birch
Y	CHERRY
Ys	Sweet Cherry
Yu	Cherry
C	CEDAR
Cp	Port Orford Cedar
F	FIR (Balsam)
Bb	Balsam Fir
Bp	Noble Fir
Bm	Red/Silver Red Fir
Bc	White Fir
L	LARCH
Lk	Siberian Larch
Lk	Siberian Larch
MAPLE	
Mr	Red Maple
Mn	Norway Maple
Ms	Sycamore Maple
O	OAK
Qg	Kingdon Oak
Qg	White Oak
OTHER EXOTICS	
Ow	Incense Cedar
Ow	Monterey Cedar
Ow	Coast Redwood
Ow	European Mountain Ash
Ow	Black Elm (exotic)
Ow	Box Elder
Ow	Norway Maple
Ow	Sycamore Maple
Ow	Elm
Ow	Kingdon Oak
Ow	White Oak
Ow	OTHER EXOTICS
Ow	Incense Cedar
Ow	Monterey Cedar
Ow	Coast Redwood
Ow	European Mountain Ash
Ow	Black Elm (exotic)
Ow	Box Elder
Ow	Norway Maple
Ow	Sycamore Maple
Ow	Elm
Ow	Kingdon Oak
Ow	White Oak
Ow	Common Pear
Ow	Oregon Ash
Ow	Green Ash
Ow	Shagbark Hickory
Ow	Tree-of-heaven
Ow	European Walnut
PINE	
Pm	Monterey Pine
Pp	Ponderosa Pine
Pu	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)
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 50 are shown as the nearest metre willremoved 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 arenot 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
- s SHRUB - shrub with average shrub height > or = to1 metres.
- sl SHRUB LOW - shrub with average shrub height < than 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 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 CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
b	BEACH	h	LAKE	mv	MUSKEG AND SPOILS
bl	BOCKFIELD	ha	LAKE-BED	ro	OCEAN
br	BEDROCK	l	LANDING	rr	OTHER
c	CULTIVATED AREA	ls	POND AT LAKE SEDIMENTS	rs	RESERVOIR
cu	CUTBANK	m	OPEN PIT MINE	rm	RESERVOIR MARGIN
ei	EXPOSED SOILS	mi	MORAINE	s	RIVER / STREAM
gl	GLACIER				

NON-VEGETATED
- ar Exposed Land
- rc Rock / Rubble
- w Snow / Ice

rp	RESERVOIR MARGIN
rv	RIVER SEDIMENTS
rs	RIVER SEDIMENTS
ri	ROAD SURFACE
sa	SAND
ta	TAILINGS
ur	URBAN

Note: Water categories (lc, ld, rc, rv) not labelled over 60 percent coverage.

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

A	ALPINE	NP	NON-PRODUCTIVE	SAND	SAND
AT	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
BR	BRUSH	NPBS	NON PRODUCTIVE SITE	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRASSLAND	O	OPEN/RANGE	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	P	PASTURE	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 preceded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

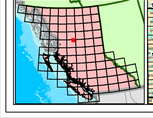
A	Animal Damage	L	Logging
B	Wildfire	M	Mis Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	P	Cone and Seedling Fungal Pathogens
I	Insects		
R	Site Rehabilitation		
T	Treatment Injuries		
U	Damage Unknown		
V	Problem Vegetation		

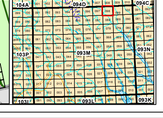
Example Opening History Details

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 "Map Place" can be used to view 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





094D007
094D008
094D009
093M099
093M098
093M097
093M088
093M087
093M089
68-125
68-123
68-124
68-122
68-121
90
CASSIAR DISTRICT
Fort St. James Natural Resource District

126°36'0"W 600,000 126°35'0"W 601,000 126°34'0"W 602,000 126°33'0"W 603,000 126°32'0"W 604,000 126°31'0"W 605,000 126°30'0"W 606,000 126°29'0"W 607,000 126°28'0"W 608,000 126°27'0"W 609,000 126°26'0"W 610,000 126°25'0"W 611,000 126°24'0"W 612,000 613,000
54°48'0"N 6,295,000 6,294,000 6,293,000 6,292,000 6,291,000 6,290,000 6,289,000 6,288,000 6,287,000 6,286,000 6,285,000 6,284,000 6,283,000 6,282,000 6,281,000 6,280,000 6,279,000 6,278,000 6,277,000 6,276,000 6,275,000 6,274,000 6,273,000 6,272,000 6,271,000 6,270,000 6,269,000 6,268,000 6,267,000 6,266,000 6,265,000 6,264,000 6,263,000 6,262,000 6,261,000 6,260,000 6,259,000 6,258,000 6,257,000 6,256,000 6,255,000 6,254,000 6,253,000 6,252,000 6,251,000 6,250,000 6,249,000 6,248,000 6,247,000 6,246,000 6,245,000 6,244,000 6,243,000 6,242,000 6,241,000 6,240,000 6,239,000 6,238,000 6,237,000 6,236,000 6,235,000
54°48'0"N

Overflow Labels

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