093A046

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093A046

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 (GYS)
- Research Installations

TRIM_Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Ice/Barriers - ESM
- Watercourses - ESM
- Waterbodies - ESM
- Wetlands - ESM
- Ocean - ESM

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 - 5% 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:

CUT
ESTL
2011
FF 20
Cd 05

LINE DESCRIPTION:
1. Silviculture symbol and Opening Number
2. Polygon Number and multi-layer stand indicator (L)
3. Species Composition
   ex: main (dominant) layer is described as Fd (Douglis 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 than 2m.
6. Disturbance History & year - ex: Logged in 1978

Line 1 - History Record Opening Number

CUT - opening number valid for BCGS mapsheet ESTL - 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
Cy	Yellow Cedar
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
Hw	Western Hemlock
Hw	Western Hemlock
Hwm	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
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plc-Pli	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pyi	Ponderosa Pine hybrid
Pw	Western White Pine
Pw	Whitebark Pine
Pa	Whitebark Pine
Sb	Black Spruce
Se	Engelmann Spruce
Sep	Prince Rupert Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Spruce x White Spruce
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Ss	Sitka Spruce
Sw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
At	Pacific Crab Apple
Ep	Black TOTO/WOOD or POPLAR
Ac	Poplar
Act	Balsam Poplar
Ab	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
Ep	Poplar
A	Arbutus
E	BIRCH
Ep	Alaska x Paper Birch
Epa	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Eb	Water Birch
K	CASCARA
Kc	Cascara
Ch	CHERRY
Ce	Bitter Cherry
Cv	Choke Cherry
Cm	Pin Cherry
E	DOGWOOD
Dp	Pacific Dogwood (western flowering)
G	GARRY OAK
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wpg	Pacific Willow (Barclay's)
Wf	Pussy Willow (gray leaved)
Ws	Scouler's Willow
Wr	Sitka Willow (low-leaved)

UNKNOWN - OTHER

Au	unknown alder
Ac	unknown conifer
Ah	unknown hardwood
Ax	unknown poplar (or tac)
Z	other conifer
Zh	other hardwood

EXOTICS

Ua	APPLE Apple
Ae	ASPEN, COTTONWOOD or POPLAR *Southern Cottonwood
Ad	Aspen
Eb	European Birch
Ey	Silver Birch (swamp)
Ev	Silver Birch
	CHERRY
Vs	Sweet Cherry
	CYPRESS
Ys	*Port Orford Cedar
	FIR (Balsam)
Bb	Noble Fir
Bn	Noble Fir
Bm	*Shasta Red Fir
Bc	Grand Fir
	LARCH
Lsl	*Siberian Larch
Ls	European Larch
	MAPLE
Me	Box Elder
Mr	Norway Maple
Ms	*Sycamore Maple
	OAK
Qw	*English Oak
Qw	*White Oak
	OTHER EXOTICS
Oa	*Incense Cedar
Ok	*Giant Sequoia
Ok	*Coast Redwood
Ql	European Mountain Ash
Ol	Siberian Elm (southern)
Ou	Unknown exotic
Oj	Japanese Walnut
Ot	Tree-of-Heaven
Ok	Japanese Walnut
	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Pb	*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

SI is an answer 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 aren=t present, e.g. young stands (<30yrs). It is denoted by a dash 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.
- s SHRUB LOW - shrub with average shrub height < two metres.

NON-TREED HERB
- h 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, liverwots, and hornwarts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED
- en Exposed Land
- ro Rock / Rubble
- si Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
ar	ROCK	ic	ICE	mw	MUNICIPAL WWE SPOILS
bl	BLOCKFIELD	l	LAKE BED	oc	OCEAN
br	BEDROCK	li	LANDING	ot	OTHER
bu	BUILDING/AREA	lp	POND or LAKE SEDIMENTS	rc	RECREATION COVER
cs	CONSTRUCTION	mi	OPEN PIT MINE	rd	RESERVOIR
es	EXPOSED SOILS	mo	MORAINE	ri	RIVER / STREAM
gl	GLACIER				

Note - Water categories (lk, oc, ri) must selected 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	CLIFF	NPF	NON PRODUCTIVE FOREST	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
I	ICEFIELD	O	OPEN (MEADOW)	NCBR	NON COMMERCIAL BRUSH
ICE	ICEFIELD	P*	OVERFLOW	NP	NON PRODUCTIVE
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUDFLAT	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.

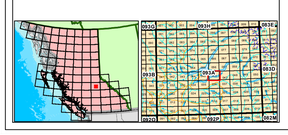
A	Animal Damage	L	Logging
B	Wildfire	M	Man Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases Insects	P	Cone and Seedling Fungal Pathogens
R	Site Rehabilitation
T	Treatment Injuries
U	Damage Unknown
V	Problem Vegetation

Example Opening History Details

Detailed Silviculture information is available on the BCGW and through MFLNRO Districts. The MapView example is of logging and RESULTS data.

The Ministry of Forests, Mines and Lands web application MAPSTER is available to view this type of detailed information. Select the SILVICULTURE layer in the tree view, "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

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