093B047

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093B047

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 / Terrabis

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 2013)

Labels Projected To: January 1, 2014

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- (XX-XXX -) VEG Phase 1 (1996+)
- VEG6 Phase 2 Samples
- (X, XX...) Phase 1 - Calls (pre VEG)
- (SAM) Phase 2 - Samples (pre VEG)
- (LSAM, P2...) Phase 1 & 2 (pre VEG)
- Permanent Sample Plot (CFS)
- Research Installations

MFLNRO OWNERSHIP Theme
Source - MFLNRO - F_OWN

OWNERSHIP & SCHEDULE
- 40-N Private - Crown Grants
- 50-N Federal Reserve
- 51-N National Parks
- 52-N Indian Reserves
- 53-N Military Reserves
- 54-N Dominion Government Block
- 60-N Ecological Reserves
- 61-N UREP < 100 ha
- 61-C UREP < 100 ha
- 62-C Forest Management Unit TSA
- 63-N Provincial Park Class A
- 67-N Provincial Park equivalent
- 69-N Reserves < 100 ha
- 69-C Reserves < 100 ha
- 70-C Timber Licence in TFL
- 70-N Timber Licence in TSA
- 72-A Private Schedule A in TFL
- 72-B Crown Schedule B in TFL
- 74-N Timber Alienated in Watershed
- 75-N Christmas Tree Permits
- 77-N Woodlot Licence Schedule B
- 78-B Community Forest
- 89-N Misc Leases < 100 ha
- 99-C Misc Leases < 100 ha

TRIM Base Features:
- Au Bush 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
- Hydrolines/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 in 1:250,000 hw - (6 % hatch)
- Municipal boundary in 1:250,000 hw) - 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. 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, Height, Crown Closure Class Code - separator. Site Index / estimated SI
   ex. 40/41 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)
6. Non-Vegetated Descriptor - rock outcrops, talus fields and gramnoids, shrubs less that 2m.
7. Disturbance History & year - ex. Logged in 1978

Line 1 - History Record Opening Number
- opening number valid for BCGS mapsheet
- opening number has not been assigned

Line 2 - Polygon No. / Multi-layer
VRIMS Polygon Number - ranging from one to nine digits
A, Multi-layered stand (a separate description of each layer is available in the data base, i.e. 1.2)

Line 3 - EC 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 4.6 dated January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	YEW
Yp	Pacific Yew
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	BALSAM
Ba	Alpine Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hw	Western Hemlock
Hwm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mt. Juniper
Js	Scopulus Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pf	Jack Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plcj	Lodgepole x Jack Pine hybrid
Plci	Lodgepole x Interior Pine hybrid
Pw	Western White Pine
Pa	Whitebark Pine
Pxj	Jack Pine hybrid
Sb	Sitka Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Spruce hybrid White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	TAMARACK
Ts	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
E	APPLE
Up	Pacific Crab Apple
At	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Abl	Balsam Poplar
Act	Black Cottonwood
Ah	Hybrid Poplars
At	Trembling Aspen
Ax	Aspen hybrid
Ax	Arbutus
B	BIRCH
Ep	Alaska Paper Birch
Epl	Alaska x Paper Birch hybrid
Ew	Paper Birch (white)
Ex	Birch hybrid
K	CASCARA
Kc	Cascara
V	CHERRY
Vb	Bitter Cherry
Vc	Choke Cherry
Vm	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
O	OAK
Qg	Garry Oak
Qx	Oak hybrid
W	WILLOW
Wp	Pacific Willow
Wpu	Pacific Willow (Bertilla's)
Wr	Pussy Willow (pyra-leaved)
Ws	Scouler's Willow
Wx	Willow (pyra-leaved)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Xl	unknown (low or tall sh)
Z	other conifer
Zh	other hardwood

EXOTICS

U	APPLE
Ux	ASPEN, COTTONWOOD or POPLAR
Ax	*Southern Cottonwood
Ae	Aspen
Eb	European Birch
Ek	Silver Birch (swamp)
Ew	Paper Birch
C	CHERRY
Vs	Sweet Cherry
Y	YEW
Yo	*Port Orford Cedar
Qw	*White Oak
Q	OAK (NATIVE)
Qa	*Japanese Cedar
Qb	*Giant Sequoia
Qe	*Coast Redwood
Qf	European Mountain Ash
Qk	Siberian Elm (southern)
Qm	*Dawn Redwood
Qg	Oregon Ash
Qt	*White Ash
Qw	*Black Walnut, Hickory
Qy	*Tree-of-Heaven
Qk	Japanese Walnut
Y	YEW
Ytx	*Monterey Pine
Yt	*Red Pine
Ys	*Scots Pine
S	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 site index in the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant and co-dominant trees. SI is assessed by the type and height, estimated SI is shown after, or replaces the SI.

4e. ESTIMATED SITE INDEX
SI is estimated when symbol SI (see above) present. e.g. young stands (<30yrs). It is denoted by a slash which always points uphill. Estimated SI values are from Site Index Type Group and SI Estimated source code.

Line 5 Vegetation records

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

NON-TREES SHRUB
- st SHRUB TALL - shrub with average shrub height > or = to two metres.
- sl SHRUB LOW - shrub with average shrub height < two metres.

NON-TREES HERB
- h HERBS - herb with no distinction between forbs and graminoids.
- hf HERBS - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON-TREES BRYOID
- bry 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)

bl	BEDROCK	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT
br	BOULDER	ic	ICE	mus	RUBBLE MINE SPOILS
bf	BLOCKFIELD	la	LAVA BED	oc	OCEAN
bu	BUILT-UP	lk	LAKE	ow	OPEN WATER
bs	BURNED AREA	ms	POND or LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	mc	OPEN PIT MINE	re	RESERVOIR
ds	DISTURBED SOILS	mn	MORAINE	rz	RIVER or STREAM
gl	GLACIER				Water categories are to be > 0.5 ha in area, labelled over 60 percent coverage.

rm	RESERVOIR MARGIN	ri	RIVER
ra	RAILWAY SURFACE	rs	RIVER SEDIMENTS
rs	RIVER SURFACE	sa	SALT MARSH
ta	TALUS	tl	TALUS
tl	TAILINGS		
ur	URBAN		

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
BE	BEACH	NPBS	NON PRODUCTIVE BRUSH SPECIES	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST (Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
H	HERBACEOUS	P	PRODUCTIVE	NPBR	NON PRODUCTIVE BRUSH
IC	ICEFIELD	PF	HARVESTED	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 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
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		
		R	Site Rehabilitation
		T	Treatment Injuries
		U	Damage Unknown
		V	Problem Vegetation

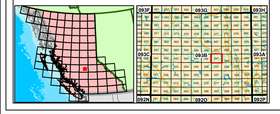
Example Opening History Details

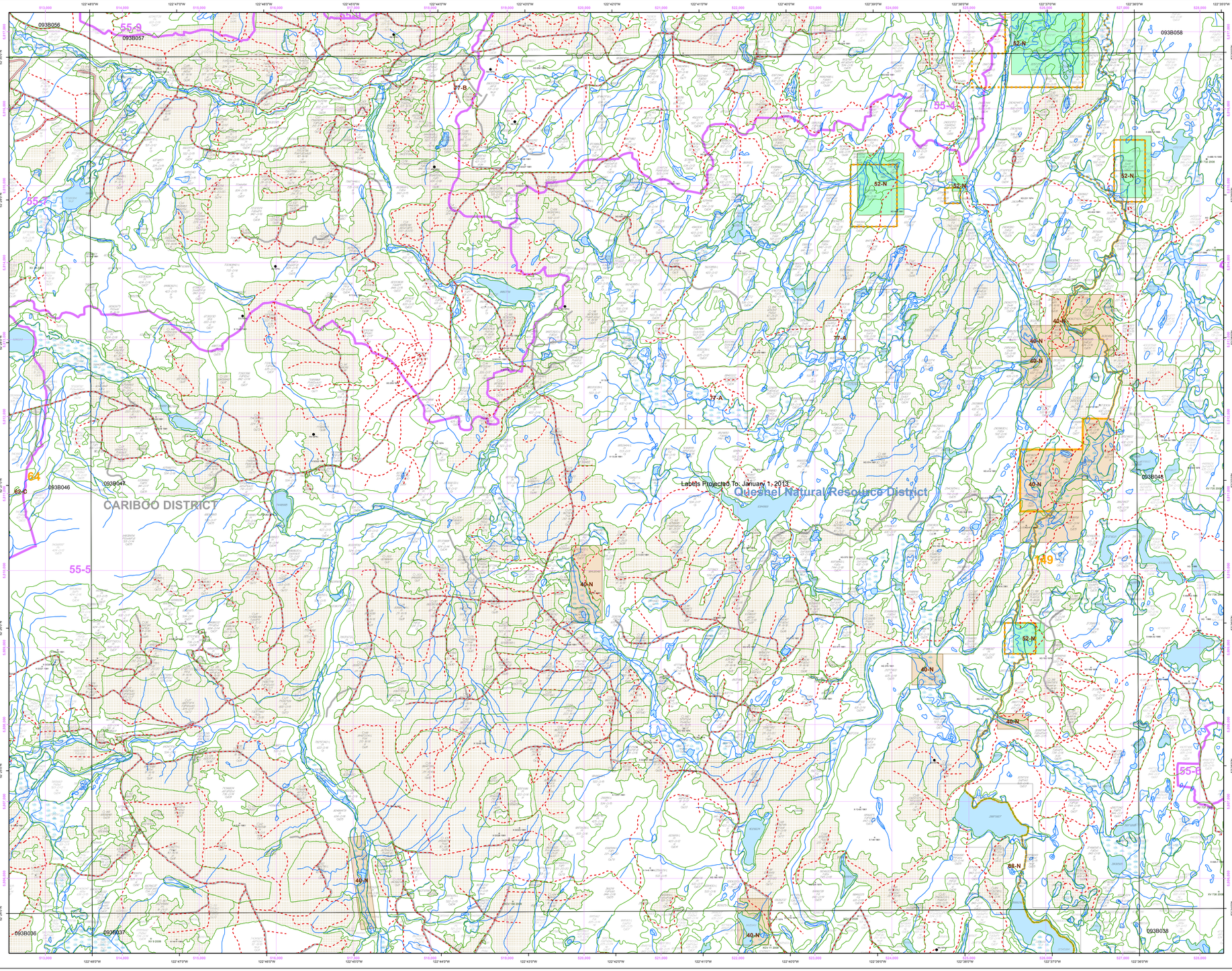
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application 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

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