Vegetation Map

092J057

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 / 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 contained in this map is not to be used for determining 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 (2015)
- Research Installations

TRIM, Base Features:
- 4x Sub Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Fairies
- Other lines
- Powerlins
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Ponds/Reservoirs - 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 - Terrabis
- Municipal boundary (1:1,000,000 for ~1% % hatch)
- Municipal boundary (1:1,000,000 hatch - 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 Opening Number and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
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 Comedy Class (or Non-Forest/Productive Description)
ex. a h-arb 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
- 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 4.6 dataed January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
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
Hw	Western Hemlock
Hwm	Western Hemlock-mountain hybrid
J	JUNIPER
Jr	Rocky Mt. Juniper
Js	Sierra/Juniper
L	LARCH
La	Subalpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pl	Lodgepole Pine
Plc	Coastal Lodgepole Pine
Pli	Lodgepole x Jack Pine hybrid
Pm	Mountain Hemlock
Pq	Shore Pine (coastal)
Ps	Scots/Red Pine
Pw	Whitebark Pine
Py	Ponderosa Pine
Sb	Black Spruce
Se	Engelmann Spruce
Sep	Sitka Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxb	Spruce hybrid White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE BROADWOODS

D	ALDER
Dr	Red Alder
E	ARBUTUS
Ep	Pacific Crab Apple
Ew	BLACK COTTONWOOD or POPLAR
Ac	Aspen
Act	Balsam Poplar
Ae	Trembling Aspen
Ax	Hybrid Aspens
At	Trembling Aspen
Ay	Yellow Poplar
K	DOGWOOD
E	BIRCH
Ep	Alaska x Paper Birch
Epa	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Er	Red Birch
G	CascaraG
V	CHERRY
Vm	Bitter Cherry
Vy	Choke Cherry
W	Pin Cherry
Vv	Wild Cherry
M	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Broadleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
R	GARRY OAK
U	WILLOW
Xb	Bebb's Willow
Xc	Coast Willow
Xh	Hooker Willow (Barclay's)
Xl	Pussy Willow (gray-leaved)
Xp	Pussy Willow
Xs	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

X	unknown
Xc	unknown conifer
Xh	unknown hardwood
Xm	unknown (broad or NE)
Oc	other conifer
Oh	Other hardwood

EXOTICS

AP	APPLE
Ax	Aspen
Ew	BLACK COTTONWOOD or POPLAR
Aw	*Southern Cottonwood
Ea	Eucalyptus
Ew	European Birch
Ea	Silver Birch (WARNI)
Ep	Paper Birch
CH	CHERRY
Vs	Sweet Cherry
Vp	*Plum
Yo	*Port Orford Cedar
FF	FIR (Balsam)
Bp	Noble Fir
Bg	Nobis Fir
Bm	*Shasta Red Fir
Bv	Grand Fir
LW	LARCH
Lk	*Japanese Larch
Le	*Siberian Larch
PI	PINE
Pw	Box Elder
Mr	*Norway Maple
Mp	*Sycamore Maple
OAK	
Qe	*English Oak
Qr	Red Oak
OTHER EXOTICS	
Ow	*Incense Cedar
Ol	*Giant Sequoia
Oc	*Coast Redwood
Ow	European Mountain Ash
Oa	*Japanese Mountain Ash
Ot	Common Pear
Oj	Oregon Ash
Oa	*Black Locust
Oh	*Osage-orange, Hedge Apple
Ob	*Buckthorn
Oj	Japanese Walnut
PI	PINE
Pm	*Monterey Pine
Pr	*Red Pine
Pa	*Austrian Pine
Ps	*Scots/Red
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
Site Index is the tree's dominant height at 50 years. Several species may be used on the age and height of the leading species. When an accurate SI cannot be obtained from age and height measurements a projected SI can be assessed from:
- SIBEC (SIBEC) - SIBEC estimated SI
- VDYP (VDYP) - VDYP estimated SI
- LOCAL (LOCAL) - Local estimate SI
- TIPSY (TIPSY) - TIPSY estimated SI

4e. ESTIMATED SITE INDEX
Estimated site index is the site index of the dominant species (if mixed), e.g. Hemlock/Balsam. 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 l records)

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

NON TREED HERB
- he HERB - herb with no distinction between forbs and graminoids.
- h HERB - FORBS - herb with forbs > 50% of the herb cover.
- g HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

NON TREED BRYOID
- bs BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

NON VEGETATED CATEGORIES: (for V and l records)

ap	AIRPORT	gp	GRAVEL PIT	mi	MUDFLAT SEDIMENT
ar	ROCK	gr	GRAVEL	mu	RUBBLE MAIN SPOILS
bl	BLOCKFIELD	k	LAVA BED	oc	OCEAN
bo	BOULDERS	l	LANDING	ri	RIVER
br	BARRENS AREA	m	MORAINE/LAKE SEDIMENTS	sn	SNOW COVER
cb	CUTBANK	mi	OPEN PIT MINE	re	RESERVOIR
cl	CLIFF/CRAGS	mr	MORAINE	st	STREAM
gl	GLACIER				

Note: Water categories are to be labelled over the 50 percent coverage.

ra	RESERVOIR MARGIN
rb	RAILWAY SURFACE
rc	RIVER SEDIMENTS
rd	ROAD SURFACE
rk	TALUS
ta	TAILINGS
ur	URBAN

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

A	ALPINE	NC	NON PRODUCTIVE
AF	ALPINE FOREST-Species	NPBR	NON PRODUCTIVE BRUSH
B	BOG	NPBS	NON PRODUCTIVE BRUSH-Species
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST-Species
G	GRASS, BAR	NTA	NOT TYPING AVAILABLE
GL	GRASSLAND	NV	NON VEGETATED
ICE	ICEFIELD	NVF	NON PRODUCTIVE
M	MEADOW	S	SOCK
W	WETLAND	SAND	SAND
		TIDE	TIDAL FLAT

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	R	Site Rehabilitation
B	Wildfire	S	Treatment Injuries
C	Cone and Seed Insects	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		

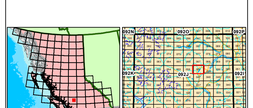
Example Opening History Details

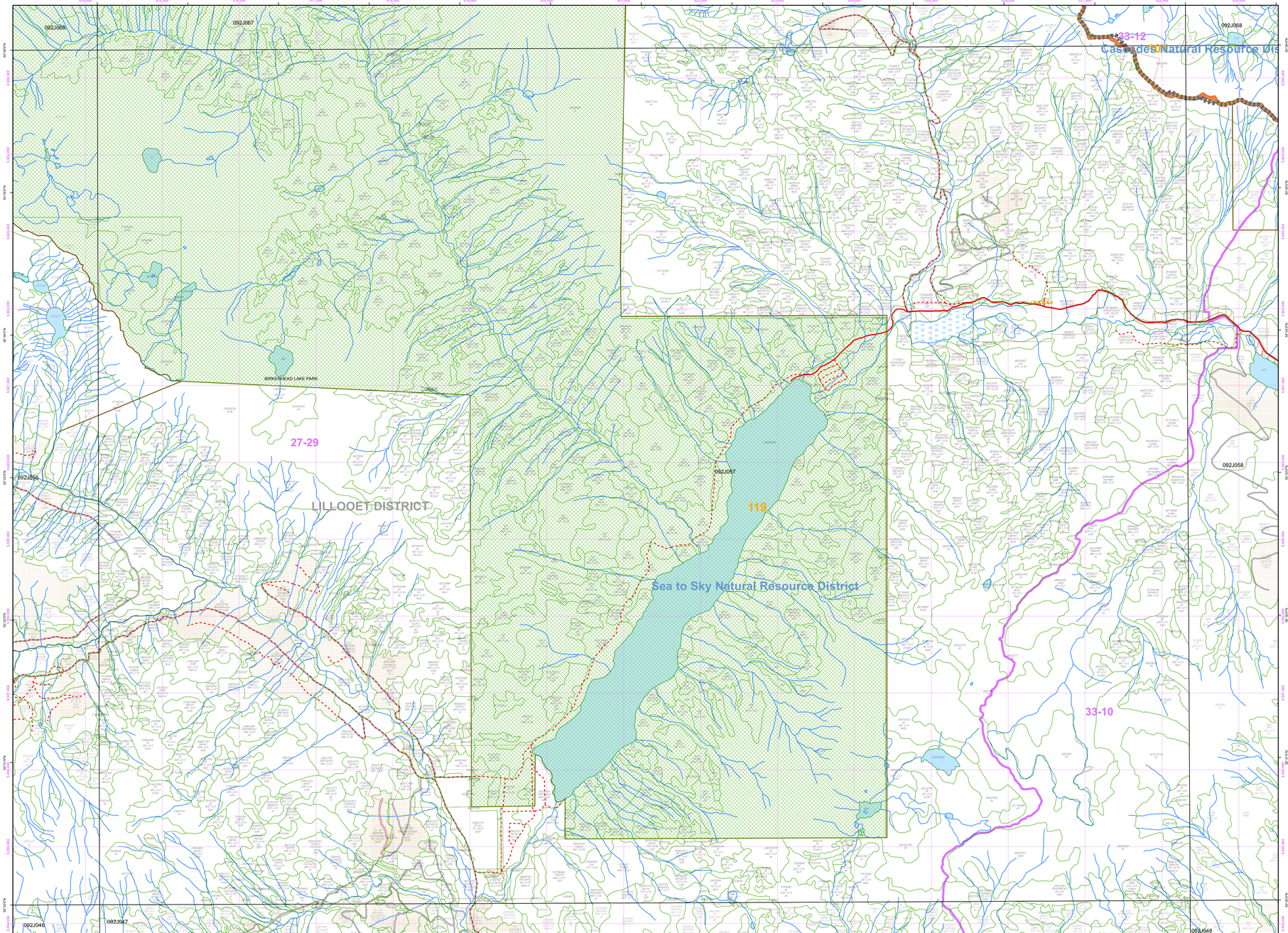
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Under the "Display" tab then click on "Display Silviculture Map" to turn on display values for -

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
OPENING - SURVEY UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH







Overflow Labels