082M018

Vegetation Map
082M018

Scale: 1:20,000

1 Kilometers

0 0.25 0.5 0.75

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRMS / Ownership
Base Map Source: TRIM / Tantalis

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been produced 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 (SYS)
- Research Installations

TRIM - Base Features:
- 4x Build Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Frames
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrofeatures - 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 Licences - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (< 1,000,000 ha) - no hatch
- Municipal boundary (> 1,000,000 ha) - to 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
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 Description)
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

- opening number valid for BCGS map sheet
- opening number has not been assigned

Line 2 - Polygon No. / Multi-layer

VRMS 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

E	ESSENTIAL
Ew	Western Red Cedar
Y	CYPRESS
Yc	Yellow Cedar
Fd	DOUGLAS FIR
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
Hw	HEMLOCK
Ba	Amabilis Fir
Bg	Grand Fir
Bl	Subalpine Fir (alpine)
H	HEMLOCK
Hm	Mountain Hemlock
Hmm	Mountain / Western Hemlock hybrid
Hwt	Mountain / Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Ac	Alaska Cedar
L	LARCH
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole x Jack Pine hybrid
Pw	Western White Pine
Pyc	Ponderosa (Yellow) Pine
Pw	Western White Pine
Pxj	Hybrid White Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sxe	Spruce Hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
Ydr	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Dl	Sitka Alder
Up	Paper Birch
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Act	Black Cottonwood
Ap	Balsam Poplar
Ax	Hybrid Poplar
Ab	Black Cottonwood x Balsam Poplar hybrid
Ep	Paper Birch (white)
Ew	Water Birch
Ea	Alaska Paper Birch
C	CASCARA
V	CHERRY
Vm	Choke Cherry
Vp	Pin Cherry
Vu	Bitter Cherry
Vv	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Broadleaf Maple (deciduous)
Mv	Vine Maple
Q	Oak
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wx	Hybrid Willow (Undetyp)
Wd	Peachleaf Willow (deciduous)
Wy	Scouler's Willow
Wi	Sitka Willow (lacewood)

UNKNOWN - OTHER

X	UNKNOWN
Xc	unknown conifer
Xd	unknown deciduous
Z	OTHER (tree not listed)
Zc	other conifer
Zd	other hardwood

EXOTICS

Ue	ASPEN, COTTONWOOD or POPLAR
Ut	Northern Cottonwood
Ep	BIRCH
Ej	Japanese Birch
Es	Silver Birch (swamp)
Ey	Yellow Birch
F	ASH
Fg	Green Ash
Fp	White Fir
Fpl	Alpine Fir
La	Siberian Larch
Lk	Larch
Me	Blue Elder
Mr	Norway Maple
Mp	Red Leaved Maple
O	OAK
Qe	English Oak
Qn	Red Oak
Q	OTHER BROADLEAVES
Qx	Chinese Cedar
Qy	Chinese Elm
Qr	Cutleaf Redbud
Qt	European Mountain Ash
Qm	European White Birch
Qf	Common Filbert
Qg	Dragon Ash
Qh	Hedge Maple
Qi	Hungarian Hickory
Qj	Tree of Heaven
Qk	Japanese Walnut
Qp	PINE
Pn	*Monterey Pine
Pp	*Ponderosa Pine
Pr	*Scots Pine
	SPRUCE
Sn	*Norway Spruce
Sb	*Siberian Fir
Sn	*Noble Fir

Line 4

4a. AGE CLASS

CODE	LIMITS (years)
1	1-20
2	21-40
3	41-80
4	81-80
5	101-120
6	101-120
7	121-140
8	141-200
9	251 +

4b. HEIGHT CLASS

CODE	LIMITS (metres)
1	0.1 - 10.4
2	10.5 - 19.4
3	19.5 - 24.4
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 vertical metre achieved 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 measurements it is estimated, or replaces the SI.

4e ESTIMATED SITE INDEX
To be estimated when subplots SI trees almost present, e.g. young stands (<10yrs). It is denoted by a slash which always precedes it. Associated fields in the data base are Inventory Type Group and Estimated source code.

Line 5 Vegetation records

VEGETATED NON-TREE CATEGORIES (for Y and L 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.
- M HERB - FORBS - herb with forbs > 50% of the herb cover.
- Hg HERB - GRAMINOIDS - 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, liverwort, and hornwort > 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	gr	GRAVEL PIT	mp	MUDFLAT SEDIMENT
b	BEACH	l	LAKE	mr	RESERVOIR MARGIN
bl	BOULDERFIELD	li	LAKE BED	ms	MUDFLAT SPOILS
br	BEDROCK	le	LANDING	o	OCEAN
cb	CUTBANK	lo	LANDING - LAKE SEDIMENTS	or	OTHER
cb	CUTBANK	mi	OPEN PIT MINE	r	RESERVOIR
es	EXPOSED SOILS	mo	MORAINE	s	RIVER / STREAM
g	GLACIER				

Note: Water categories (w, o, r, s) not labelled over 5% percent coverage.

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

AF	ALPINE FOREST	NP	NON PRODUCTIVE
AF	ALPINE FOREST Hydrosa	NPBR	NON PRODUCTIVE BRUSH
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN
CL	CLEARING	NPF	NON PRODUCTIVE FOREST Hydrosa
G	GRASS / MEADOW	NTA	NO TYPING AVAILABLE
GR	GRAVEL PIT	OR	ORCHARD
M	MARSH	R	ROCK
M	MEADOW	S	SWAMP
MUD	MUDFLAT		

SAND	SAND
TIDAL	TIDAL FLAT
U	URBAN
NC	NON COMMERCIAL
NCBR	NON COMMERCIAL BRUSH
NF	NON FOREST
NPA	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	Animal Damage	L	Logging
B	Wildfire	N	Site Preparation
C	Cone and Seed Insects	O	Animal Injuries
D	Diseases	P	Cone and Seedling Fungal Pathogens
I	Insects		

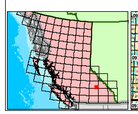
R	Site Rehabilitation
T	Treatment Injuries
U	Unknown Injuries
V	Problem Vegetation

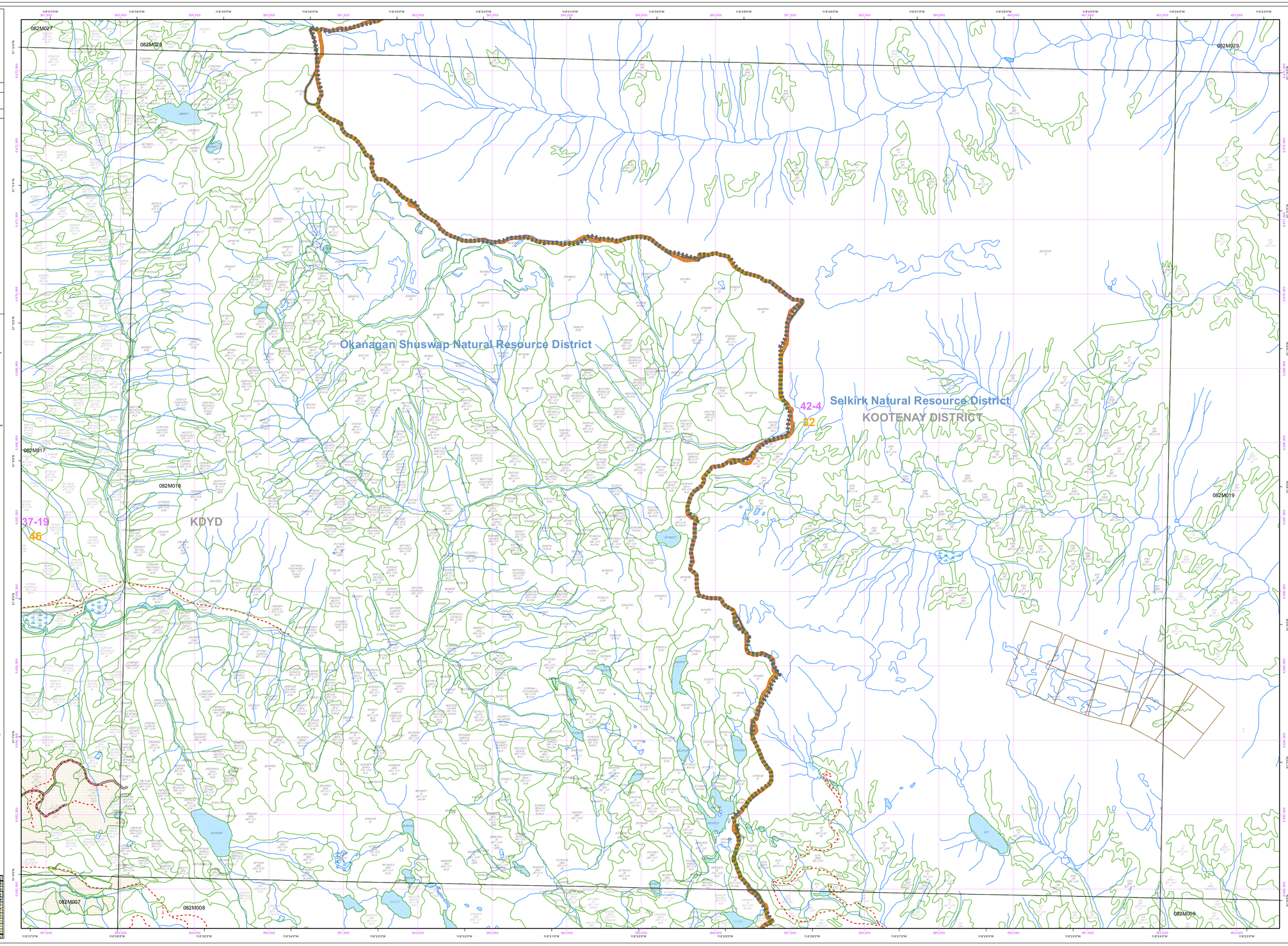
Example Opening History Details

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of Harvested 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
RESULTS OPENING
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH





Overflow Labels

082M018