082K084

Vegetation Map
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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 - VRMS / 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 versions June 2014)

Labels Projected To: January 1, 2015

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Structure Opening in Vegetation
- Permanent Sample Plot (CVS)
- Research Installations

TRIM - Base Features:
- As Built Roads
- Forest/Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airfields
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydroelectric dams - EBM
- Watercourses - EBM
- Waterbodies - EBA
- 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:

CD 2014 Fd/Hw 1F 20 INV 0078

LINE DESCRIPTION:
1. Silviculture symbol and Opening Number
2. Multi-layered stand (a 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. 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 Forested 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

CD - opening number valid for BCGS mapsheet .....INV - 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

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
Hxm	Mountain x Western Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Sweetie Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (interior)
Plh	Lodgepole Pine x Jack Pine hybrid
Pli	Intermountain Lodgepole
Pfg	Shore Pine (coast)
Pw	Western White Pine
Py	Ponderosa Pine
S	SPRUCE
Ss	Sitka Spruce
Se	Engelmann Spruce
Sw	White Spruce
Sx	White Spruce
Sz	Spruce hybrid
Sxs	Sitka x White
Sxw	Sitka x unknown hybrid
T	HEMLOCK
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
Dl	Sitka Alder
Up	Paper Birch (Alaska)
A	ASPEN, COTTONWOOD or POPLAR
At	Trembling Aspen
Ab	Balsam Poplar
Act	Black Cottonwood
Ag	Black Cottonwood x Balsam Poplar hybrid
At	Trembling Aspen
B	BIRCH
Bp	Paper Birch
Bpa	Alaska Paper Birch
Bpx	Alaska x Paper Birch hybrid
Bw	Paper Birch (white)
Bb	Water Birch
C	CEDAR
Ca	Cascara
D	DOGWOOD
Dw	Pacific Dogwood (western flowering)
E	ELM
Em	Slippery Elm (broadleaf)
W	Vine Maple
G	OAK
Gb	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wr	Peach-leaf Willow (Bankby's)
Wsf	Pussy Willow (grey leaved)
Ws	Scouler's Willow
Wy	Willow (not yet keyed)

UNKNOWN - OTHER

X	UNKNOWN
Xx	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zc	other conifer
Zh	other hardwood

EXOTICS

Ae	APPLE
Ay	Apple
Act	BLACK COTTONWOOD or POPLAR
Ace	Southern Cottonwood
Ep	BIRCH
Epa	European Birch
Es	Silver Birch (swamp)
Ey	Yellow Birch
Ew	CEDAR
Ews	Sweet Cherry
Cy	CYPRESS
Cyl	Lawson's Cedar
F	FIR (Eastern)
Bb	*Balkan Fir
Bn	*Nobilis Fir
Bv	*Shasta Red Fir
Bi	*White Fir
Lk	LARCH
Ld	*Dahurian Larch
Lk	*European Larch
M	MAPLE
Mr	Box Elder
Mo	*Norway Maple
Ms	*Sycamore Maple
O	OAK
Oc	*Chinese Oak
Ow	*White Oak
O	OTHER EXOTICS
Ox	*Incense Cedar
Ob	*Black Locust
Ov	*Coast Redwood
Ot	European Mountain Ash
Or	Siberian Elm (southern)
Oe	*Russian Olive
Og	Oregon Ash
Ow	*White Ash
Ok	*Golden Raintree
Ol	Tree-of-Heaven
Oh	Japanese Walnut
Pn	PINE
Pr	*Monterey Pine
Pr	*Red Pine
Ps	*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)
1	0 - 5
2	6 - 15
3	16 - 25
4	26 - 35
5	36 - 45
6	46 - 55
7	56 - 65
8	66 - 75
9	76 - 85
A	86 - 100

4d. SITE INDEX

All SI are shown to the nearest metre referenced at 50 years breast height age. Site curves are based on the Nigh (1995) variable age site tree. Where an accurate SI cannot be obtained from age and height, estimated SI is shown either, or replaces the SI.

4e. ESTIMATED SITE INDEX

SI is estimated when suitable SI trees cannot present, e.g. young regenerating stands. SI is based on local site productivity previously measured plots in the data base are known as Type Group and SI if estimated source code.

Line 5 - Vegetation records

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

NON-TREED SHRUB
- s - SHRUB
- sl - SHRUB LOW

...shrub with average shrub height > or = to two metres.
...shrub with average shrub height < two metres.

NON-TREED HERB
- he - HERB
- hf - HERB - FORBS
- hg - HERB - GRAMINOIDS

...herb with no distinction between forbs and graminoids.
...herb with forbs > 50% of the herb cover.
...herb with graminoids > 50% of the herb cover.

NON-TREED BRYOID
- by - BRYOID
- bm - BRYOID - MOSS
- bl - BRYOID - LICHENS

...bryoid with no distinction between mosses and lichens by cover.
...bryoid with mosses, liverworts, and hornwarts > 50% of the bryoid cover.
...bryoid with lichens > 50% of the bryoid cover.

NON-VEGETATED CATEGORIES (for N and I records)

- ae - AIRPORT
- ag - GRAVEL PIT
- ap - PIT
- bd - BOOGY/SLD
- lb - LAKE BED
- lc - LANDING
- lg - GRAVEL BAR
- lk - LAKE SEDIMENTS
- ro - OPEN PIT MINE
- rm - MORAINE
- mu - MUDFLAT SEDIMENT
- rn - RESERVOIR MARGIN
- rp - RIVER SEDIMENTS
- rs - RIVER SEDIMENTS
- sc - OCCAN
- st - OTHER
- su - SURFACE COVER
- w - RESERVOIR
- RIVER / STREAM
- ri - RESERVOIR MARGIN
- rs - RIVER SEDIMENTS
- ri - RIVER SEDIMENTS
- ro - ROAD SURFACE
- s - SALTWATER
- t - TAILINGS
- ur - URBAN

Note: Water categories (w, ri, rs, rn) labeled over 80 percent coverage.

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

- A - ALPINE
- C - CULTIVATED
- D - DUGOUT
- G - GRAVEL BAR
- GR - GRAVEL PIT
- I - ICEFIELD
- M - MUSKEG
- MUD - MUDFLAT
- NFAD - NON-FOREST,ALDER
- NFBU - NON-PRODUCTIVE BURN
- NFCL - NON-FOREST,RECENT CLEARCUT
- NPA - NOT PHOTOGRAPHABLE
- OR - OPEN RANGE
- R - ROCK/GLD
- S - SWAMP
- SAND - SAND
- TIDE - TIDAL FLAT
- U - URBAN
- NC - NON-COMMERCIAL
- NCBR - NON COMMERCIAL BRUSH
- NP - NON-PRODUCTIVE
- NPBS - NOT PHOTOGRAPHABLE,RESTOCKED
- 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.

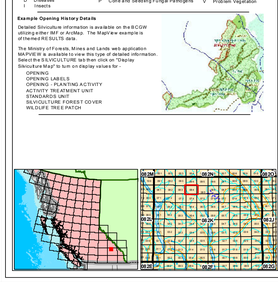
- A - Animal Damage
- B - Wildfire
- D - Disease and Seed Insects
- E - Diseases
- I - Insects
- L - Logging
- M - Mite Damage
- N - Non-Biological Injuries
- P - Cone and Seedling Fungal Pathogens
- R - Site Rehabilitation
- T - Treatment Injuries
- U - Damage Unknown
- V - Problem Vegetation

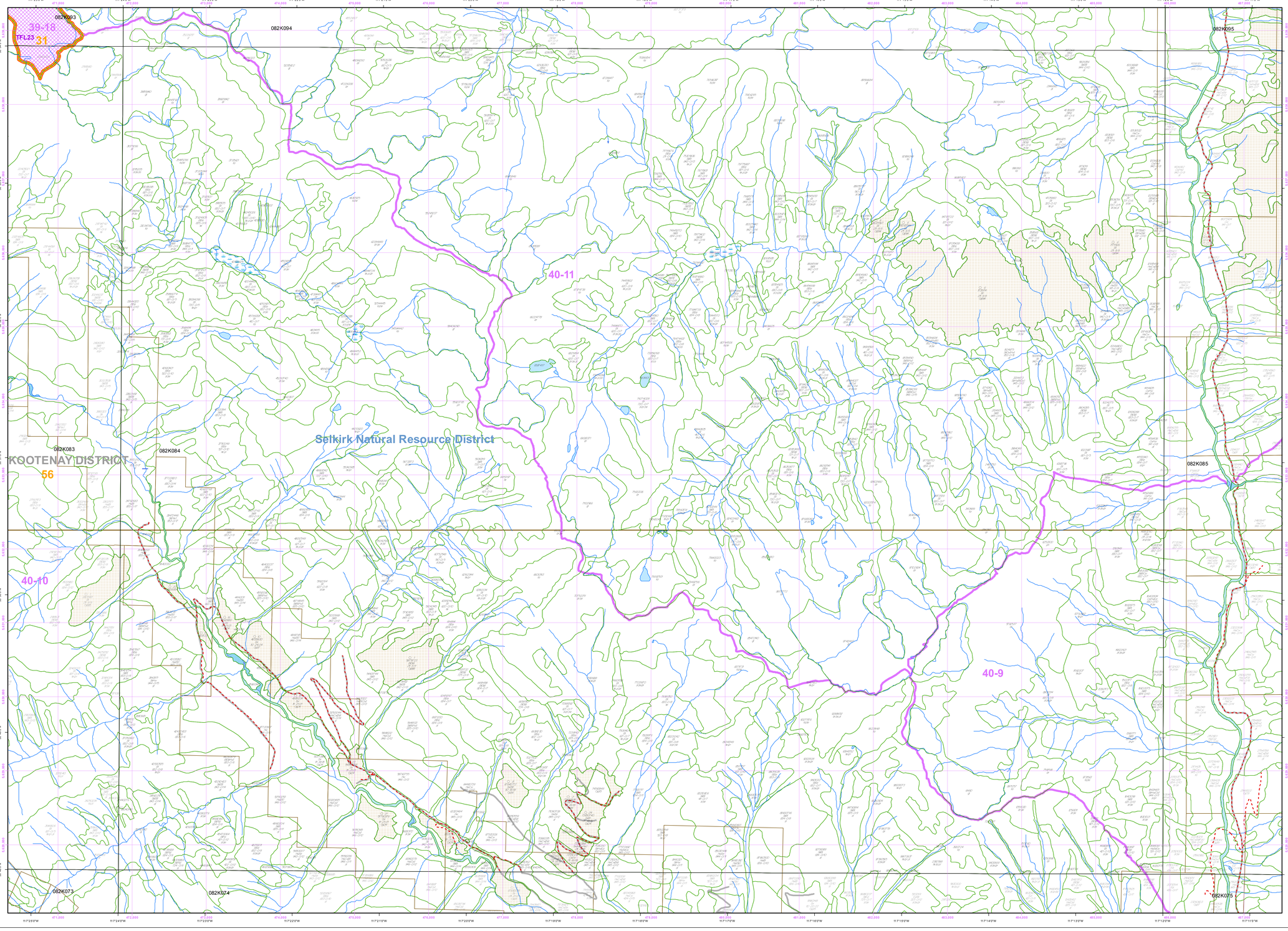
Example Opening History Details

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