093N005

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
093N005

Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - WSMS / 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 for: January 1, 2016

MAP SYMBOLOGY

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

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Airf/Helis
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydro/Aqueducts - 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 at 1:1000,000 ha - 15 % hatch)
- Municipal boundary (at 1:1000,000 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:

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: eland 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 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
X, - 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 4.0 dated January 2009.

NATIVE CONIFERS

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)
Bp	Pacific Fir
Hm	Mountain Hemlock
Hw	Western Hemlock
Hxm	Western Hemlock Mountain Hemlock hybrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pa	Whitebark Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Plc	Lodgepole Pine (contorta)
Pxj	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Pw	Western White Pine
Pw	Western White Pine
Pyb	Whitebark Pine
S	SPRUCE
Se	Black Spruce
Sb	Sitka Spruce
Sw	White Spruce
Sxl	Spruce hybrid
Sxw	Engelmann x White
Sxe	Engelmann Spruce
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	DOGWOOD
G	Red Alder
U	APPLE
Ue	Pacific Crab Apple
Ux	ASPEN, COTTONWOOD or POPLAR
At	Aspen
Ac	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
Ae	Trembling Aspen
E	ARBUTUS
Ea	Arbutus
Ep	Paper Birch
Ew	Alaska Paper Birch hybrid
Ewl	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
M	MAPLE
V	CHERRY
Vb	Bitter Cherry
Vm	Mahaleb Cherry
Vt	Pin Cherry
O	DOGWOOD
Q	Pacific Dogwood (western flowering)
R	WAPITI
Rb	Bigleaf Maple (broadleaf)
Rv	Vine Maple
S	WILLOW
Sg	Carrs Wil.
Sl	WILLOW
Sp	Pacific Willow
Spl	Pacific Willow
Sw	Peachleaf Willow (Bonitata's)
Sr	Red Willow (Bebb Willow)
Ss	Scouler's Willow
Sw	Sitka Willow (Sea-kelped)

UNKNOWN - OTHER

X	UNKNOWN
Xc	Cottonwood hybrid
Xh	unknown hardwood
Y	OTHER (tree not on list)
Z	Shrub
Zh	other hardwood

EXOTICS

Lw	LARCH
Ax	ASPEN, COTTONWOOD or POPLAR
Ab	Northern Cottonwood
Ay	BIRCH
Ea	European Birch
Ekl	Kamchatka Birch
Ep	Yellow Birch
V	CHERRY
Vs	European Cherry
Y	CYPRESS
Yo	Port Orford Cedar
Yx	Cypress hybrid
F	DOUGLAS FIR
Fg	Douglas Fir
Bn	Noble Fir
Bpr	Red Alder Fir
Bw	White Fir
L	LARCH
Lk	European Larch
Ljl	Siberian Larch
P	PINE
Pe	Scots Pine
Pm	Monterey Maple
Ms	Sycamore Maple
S	SPRUCE
Se	Engles Oak
Sw	White Oak
W	WESTERN REDCS
Wp	Incense Cedar
Ok	Giant Sequoia
Ob	Coast Redwood
Ue	European Mountain Ash
Ue	Siberian Elm (southern)
Of	Common Pear
Ow	Black Locust
Ot	White Ash
Oi	Wingbeack Hickory
Oj	Japanese Ash
Oa	Japanese Walnut
PINE	
Pm	Monterey Pine
Pm	Red Pine
Ps	Sugar Pine
S	SPRUCE
Se	Norway Spruce

Line 4

4a. AGE CLASS

CODE	AGE (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	HEIGHT (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	CROWN CLOSURE (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 height in the nearest metre reflected 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

Estimated Site Index is used when no trees are present, e.g. young stands (<50yrs). If a deviation to a stand 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 (5v/ v and l record+)

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

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

NON TREED BRYOID
- bm BRYOID - MOSS - 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 (5v/ v and l record+)

ap	AIRPORT	gp	GRAVEL PIT
bl	BOULDER	ic	ICE
bf	BLOCKFIELD	la	LAVA BED
bv	BEDROCK	s	SAND
sw	SNOW/PERM AREA	t	LANDING
cb	CUTBANK	tz	TRANSITIONAL LAKE SEDIMENTS
cl	CUTBANK - CLAY	w	OPEN PIT MINE
gl	GLACIER	wo	WORKINGS - OTHER

Note: Water categories 5a, ss, ru, rd not labeled over 50 % percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for if record+)

A	ALPINE	NP	NON PRODUCTIVE
BR	NON FOREST /Species	NPBR	NON PRODUCTIVE BRUSH
C	CLAY	NPBRS	NON PRODUCTIVE BRUSH
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE
GL	GLACIER	O	OPEN FOREST
ICE	ICEFIELD	P	HAYFIELD
L	LAKE/POND	R	ROCK
MUD	MUD FLAT	S	SWAMP
SAND	SAND		
TIDE	TIDAL FLAT		
U	URBAN		
UR	ASPEN, COTTONWOOD or POPLAR		
UBI	BIRCH		
UBIE	European Birch		
UBIK	Kamchatka Birch(variety)		
UBIP	Yellow Birch		
UCHERRY	CHERRY		
UCHERRYS	European Cherry		
UCYPRESS	CYPRESS		
UCYPO	Port Orford Cedar		
UF	DOUGLAS FIR		
UFD	Douglas Fir		
UFDB	Noble Fir		
UFDPR	Red Alder Fir		
UFDW	White Fir		
UL	LARCH		
ULL	European Larch		
ULLS	Siberian Larch		
UMAPLE	MAPLE		
UMBE	Paper Birch		
UMBM	Monterey Maple		
UMBS	Sycamore Maple		
UP	PINE		
UPE	Scots Pine		
UPM	Monterey Pine		
UPR	Red Pine		
UPS	Sugar Pine		
US	SPRUCE		
USE	Norway Spruce		
NC	NON-COMMERCIAL		
NCBR	NON COMMERCIAL BRUSH		
NP	NON PRODUCTIVE		
NPBRR	NON PRODUCTIVE - 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	L	Logging
B	Wildfire	M	Mite Damage
C	Cone and Seed Insects	N	Non-Biological Injuries
D	Disease	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 "Silviculture" from the WME 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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