094N020

BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
094N020

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 / 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 To: January 1, 2016

MAP SYMBOLOGY

Forest Inventory Features:
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (GY3)
- Research Installations

TRIM Base Features:
- 4x Bulk Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cuttlines
- Railways
- Airstrips
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNetBarriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- 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:

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 (Dougla 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 (1.1-10.4m), crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
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 Opeing Number

OLnn - opening number valid for BCGS mapsheet
DXnn - 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 Compsition: 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 dataed January 2009.

NATIVE CONIFERS

C	CEDAR
Cw	Western Red Cedar
Y	CYPRESS
Yc	Nootka Cypress
F	DOUGLAS FIR
Fd	Douglas Fir
Fdc	Coastal Douglas Fir
Fdi	Interior Douglas Fir
B	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	Scopulorum Juniper
L	LARCH
La	Alpine Larch
Lt	Tamarack
Lw	Western Larch
P	PINE
Pj	Jack Pine
Pf	Limber Pine
Pl	Lodgepole Pine
Pli	Lodgepole Pine (interior)
Plc	Lodgepole Pine (coast)
Plx	Lodgepole x Jack Pine hybrid
Pp	Ponderosa Pine (yellow)
Pc	Shore Pine (coast)
Pw	Western White Pine
Pa	Whitebark Pine
Py	Yellow Pine
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sxe	Spruce hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

D	ALDER
Dr	Red Alder
U	APPLE
Ua	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
At	Poplar
Ae	Balsam Poplar
Act	Black Cottonwood
Ad	Trembling Aspen
At	Trembling Aspen
R	ARBUTUS
Ra	Arbutus
E	BIRCH
Ep	Nootka Paper Birch
Epp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vb	Bitter Cherry
Vr	Choke Cherry
Vp	Pin Cherry
G	DOGWOOD
Gp	Pacific Dogwood (western flowering)
M	MAPLE
Mb	Bigleaf Maple (broadleaf)
Mv	Vine Maple
Q	OAK
Qg	Garry Oak
W	WILLOW
Wb	Bebb's Willow
Wp	Pacific Willow
Wpg	Pacific x Sitka Willow (Barclay's)
Ww	Pussy Willow (grey-leaved)
Ws	Scouler's Willow
Wr	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

Ua	APPLE Apple
Axt	ASPEN, COTTONWOOD or POPLAR Aspen x Cottonwood
Ea	BIRCH European Birch
Ekl	Silver Birch (swamp)
Ey	*Yellow Birch CHERRY
Vs	Sweet Cherry CYPRESS
Yp	*Port Orford Cedar FIR (Balsam)
Bb	Noble Fir
Bn	Noble Fir
Bm	*Shasta Red Fir
Bc	*White Fir LARCH
Ld	European Larch
Lk	Siberian Larch
MA	MAPLE Box Elder
Mr	*Norway Maple
Mm	Sycamore Maple
OA	OAK *English Oak
Qb	*White Oak
XH	OTHER EXOTICS Chestnut
Oc	*Coast Redwood
Oe	European Mountain Ash
Oe	Siberian Elm (southern)
Oh	Ginkgo
Oj	Japanese Ash
Oa	*White Ash
Oh	*Shagbarck Hickory
Oj	Tree-of-heaven
Ow	Japanese Walnut
PINE	
Pm	*Monterey Pine
Pr	*Red Pine
Ps	*Sugar Pine
SPRUCE	
Sn	*Norway Spruce

Line 4

4a AGE CLASS

CODE	LIMITS (years)
1	1-20
2	21-40
3	41-80
4	81-100
5	81-500
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 - 27.4
4	27.5 - 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
0	86 - 100

4d SITE INDEX

All SI are shown to the nearest metre referenced 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

SI is estimated when suitable SI trees aremnt present, e.g. young stands (<50yrs). 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 I record=s)

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

NON-TREED HERB
- he HERB - 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
- by BRYOIDS - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSSES - bryoid with mosses > 50% of the bryoid and herb/lichens < 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	gl	GRAVEL PIT	mu	MUDFLAT SEDIMENT
bl	BEACH	h	LAKE BED	mw	MUSKEG MINE SPOILS
bl	BLOCKFIELD	li	LAKE ICE	oc	OCEAN
br	BEDROCK	l	LANDING	ot	OTHER
bu	BURNED AREA	s	POND or LAKE SEDIMENTS	pn	SNOW COVER
cb	CUTBANK	ra	OPEN PIT MINE	R	RESERVOIR
ea	EXPOSED SOILS	ren	MORAINE	rv	RIVER or STREAM
gl	GLACIER				

mr	RESERVOIR MARGIN	ri	RIVER SEDIMENTS
rn	RAILWAY SURFACE	rz	ROAD SURFACE
ri	RIVER SEDIMENTS	ta	TALUS
rz	ROAD SURFACE	tl	TAILINGS
ta	TALUS	ur	URBAN
tl	TAILINGS		
ur	URBAN		

Note - Water categories (ra, ou, re, rl) not labelled over 90 percent coverage.

NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for F record=4)

A	ALPINE	NPBR	NON PRODUCTIVE BRUSH	SAND	SAND FLAT
BRUSH	BRUSHLAND FOREST /Species	NPBU	NON PRODUCTIVE BURN	U	URBAN
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN		
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	N/A	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMMERCIAL BRUSH
L	LAKE	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
M	MEADOW	S	SWAMP	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT			N/A	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.

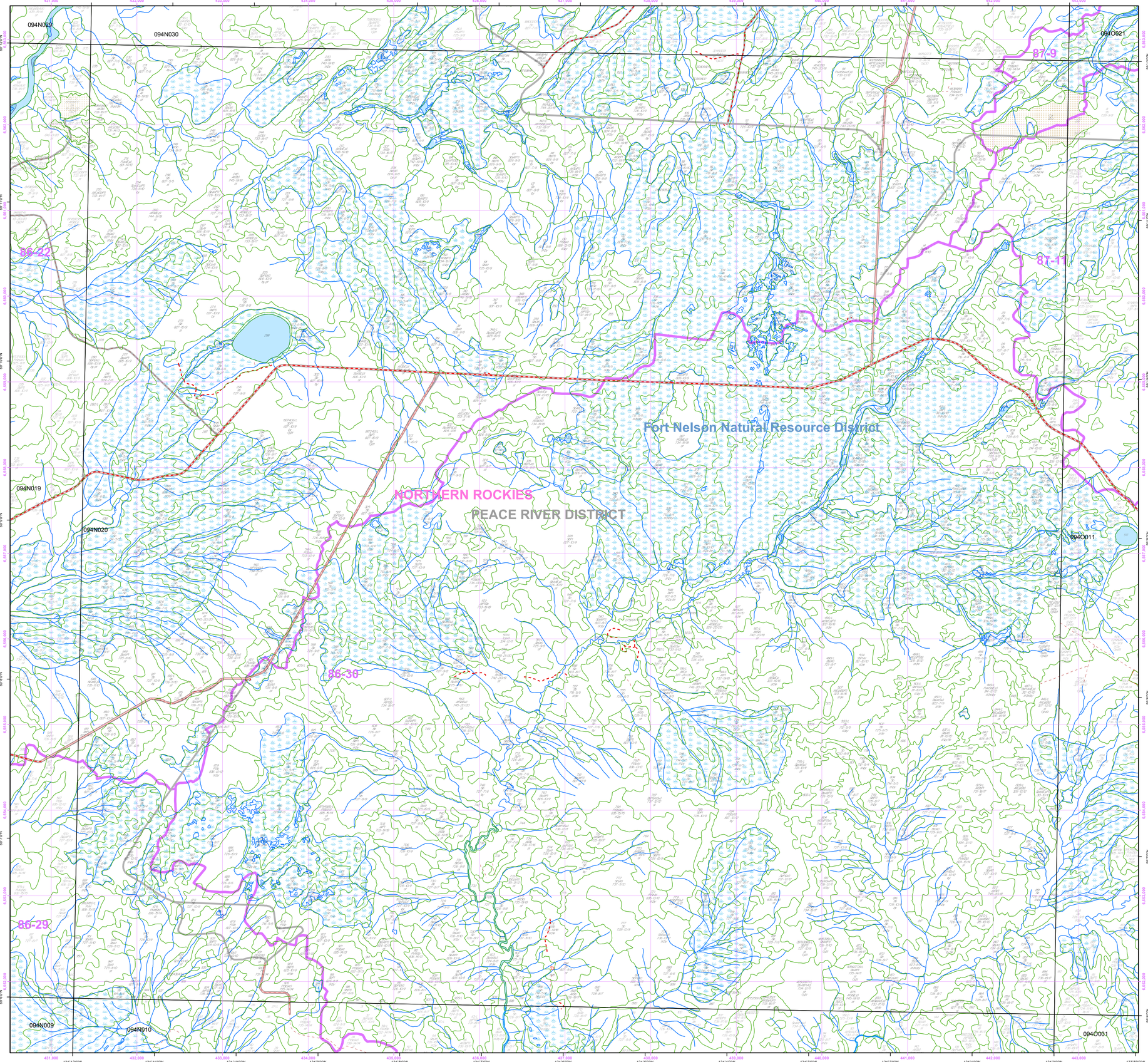
A	Animal Damage	R	Site Rehabilitation
B	Wildfire	T	Treatment Injuries
C	Cone and Seed Insects	U	Damage Unknown
D	Diseases	V	Problem Vegetation
I	Insects		
L	Logging		
M	Mite Damage		
N	Non-Biological Injuries		
P	Cone and Seedling Fungal Pathogens		

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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