Vegetation Map

103J001

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 / 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
- Siviculture Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

TRIM, Base Features:
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air/Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- HydroNavBarriers - 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:

⬡12
123/L
Fd(Hw)
211-20
he,sl
G178

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 (Dougls 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 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

⬡12 - opening number valid for BCGS mapsheet   *blank* - 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 availiable 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

Code	Name
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 hydrid
J	JUNIPER
Jr	Rocky Mtn. Juniper
Js	Seaside 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)
Pxj	Lodgepole x Jack Pine hybrid
Py	Ponderosa Pine (yellow)
Plc	Shore Pine (coast)
Pw	Western White Pine
Pa	Whitebark Pine
S	SPRUCE
Sb	Black Spruce
Se	Engelmann Spruce
Ss	Sitka Spruce
Sw	White Spruce
Sx	Spruce hybrid
Sxw	Engelmann x White
Sxl	Sitka x White
Sxs	Sitka x unknown hybrid
T	YEW
Tw	Western Yew

NATIVE HARDWOODS

Code	Name
D	ALDER
Dr	Red Alder
U	APPLE
Up	Pacific Crab Apple
A	ASPEN, COTTONWOOD or POPLAR
Ac	Poplar
Acb	Balsam Poplar
Act	Black Cottonwood
Ax	hybrid Poplars
At	Trembling Aspen
R	ARBUTUS
Ra	Arbutus
E	BIRCH
Ea	Alaska Paper Birch
Exp	Alaska x Paper Birch hybrid
Ep	Paper Birch (white)
Ew	Water Birch
K	CASCARA
Kc	Cascara
V	CHERRY
Vb	Bitter Cherry
Vv	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
Wa	Peachleaf Willow (Barclay's)
Wd	Pussy Willow (gray-leaved)
Ws	Scouler's Willow
Wt	Sitka Willow (tea-leaved)

UNKNOWN - OTHER

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

EXOTICS

Code	Name
	APPLE
Ua	Apple
	ASPEN, COTTONWOOD or POPLAR
Ad	*Southern Cottonwood
	BIRCH
Ee	European Birch
Es	Silver Birch (swamp)
Ey	*Yellow Birch
	CHERRY
Vs	Sweet Cherry
	CYPRESS
Yp	*Port Orford Cedar
	FIR (Balsam)
Bb	*Balsam Fir
Bp	Noble Fir
Bm	*Shasta Red Fir
Bc	*White Fir
	LARCH
Ld	*Dahurian Larch
Ls	*Siberian Larch
	MAPLE
Me	Box Elder
Mn	*Norway Maple
Ms	*Sycamore Maple
	OAK
Qe	*English Oak
Qw	*White Oak
	OTHER EXOTICS
Oa	*Incense Cedar
Ob	*Giant Sequoia
Oc	*Coast Redwood
Od	European Mountain Ash
Oe	Siberian Elm (southern)
Of	Common Pear
Og	Oregon Ash
Oh	*White Ash
Oi	*Shagbarck Hickory
Oj	Tree-of-heaven
Ok	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	41-60
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
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 arenot present, e.g. young stands (<30yrs). 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 records)

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
- 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 - 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
- el Exposed Land
- ro Rock / Rubble
- si Snow / Ice

NON-VEGETATED CATEGORIES (for V and I records)

ap	AIRPORT	gp	GRAVEL PIT	mu	MUDFLAT SEDIMENT	rm	RESERVOIR MARGIN
be	BEACH	la	LAKE	mz	RUBBLY MINE SPOILS	rm	RAILWAY SURFACE
bl	BLOCKFIELD	lb	LAVA BED	oc	OCEAN	rs	RIVER SEDIMENTS
br	BEDROCK	ll	LANDING	ot	OTHER	rz	ROAD SURFACE
bu	BURNED AREA	ls	POND or LAKE SEDIMENTS	pn	SNOW COVER	ta	TALUS
cb	CUTBANK	mi	OPEN PIT MINE	re	RESERVOIR	tz	TAILINGS
es	EXPOSED SOILS	mn	MORAINE	ri	RIVER / STREAM	ur	URBAN
gl	GLACIER						

Note: Water categories (la, oc, re, ri) not labelled over 90 percent coverage.

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

A	ALPINE	NP	NON PRODUCTIVE	SAND	SAND
AF	ALPINE FOREST /Species	NPBR	NON PRODUCTIVE BRUSH	TIDE	TIDAL FLAT
C	CULTIVATED	NPBU	NON PRODUCTIVE BURN	U	URBAN
CL	CLAY BANK	NPF	NON PRODUCTIVE FOREST /Species		
G	GRAVEL BAR	NTA	NO TYPING AVAILABLE	NC	NON COMMERCIAL
GR	GRAVEL PIT	OR	OPEN RANGE	NCBR	NON COMERCIAL BRUSH
ICE	ICEFIELD	P	HAYFIELD	NP	NON PRODUCTIVE
M	MEADOW	R	ROCK	NSR	NOT SUFFICIENTLY RESTOCKED
MUD	MUD FLAT	S	SWAMP	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.

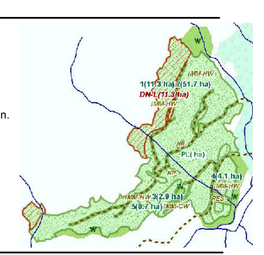
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

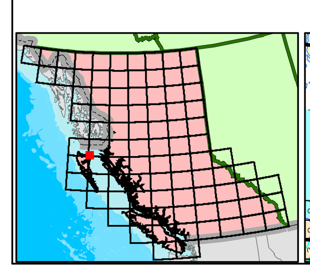
Example Opening History Details

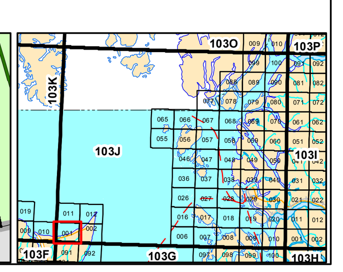
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

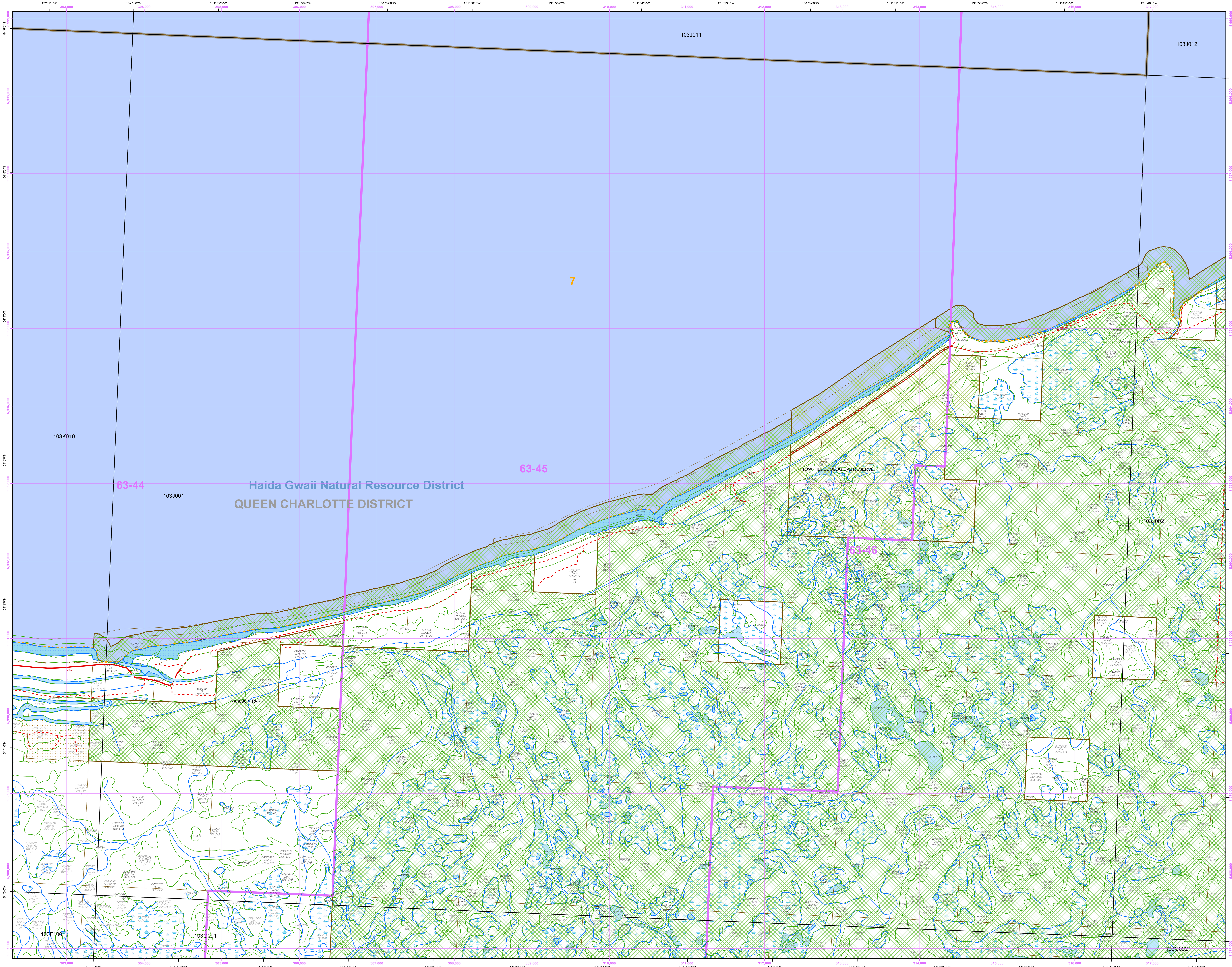
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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









Overflow Labels

149414 HwSs(Cw) 944-0/12 sl	29038970 Cw 410-0/4 by,he,sl	39397870 CwHw 824-0/9 sl	54697682 Cw(Hw) 825-0/8 sl	99877607 CwHw 926-0/6
377681 by,he,sl	29178764 Hw 813-0/4 sl	39880348 la,sl	54708442 CwHw 825-0/7 sl	
1879699 Cw 513-0/5 sl G	30389390 CwHw 825-0/6 sl	40687267 CwHw 836-0/12	55339790 CwHw(Ss) 835-0/11 sl	
2489257 CwHw(Ss) 835-0/12	30800228 CwHw 821-0/7 sl,he	41320315 la,sl	55578627 Cw 822-0/9 hg,sl	
3758971 CwHw 836-0/11	31257902 CwHw 614-0/5 sl	41850088 CwHw 614-0/6 sl	55801871 SsHw 943-0/8 sl	
6398244 he,sl	31550301 Cw(Hw) 713-0/6 sl	42229440 CwHw 717-0/6	56339550 CwHw 826-0/8 sl	
7768931 CwHw 510-0/4 he,by	31970010 Cw 713-0/6 sl,he	42978754 CwHw 826-0/8	56620222 HwCw 937-0/9	
8390102 SsHw(Cw) 225-25/25 he	32049352 CwHw 825-0/6 sl	43139884 la,sl	56780855 SsHw(Cw) 946-0/10	
9639760 SsCw(Hw) 944-0/10 sl	32587341 he,la,sl	43338845 CwHw 510-0/6 la,sl	57160553 CwPl(Hw) 511-0/4 sl,by,he	
10228797 CwHw(Plc) 825-0/6 sl	32948912 CwHw 410-0/3 by,he	43840059 la,sl	57391526 HwCw 827-0/5	
10357594 la,sl	33498073 CwHw 614-0/5 sl	43869098 CwHw 824-0/7 sl	57501270 HwPl(Cw) 611-0/5 he,by	
11318268 he,sl	33628162 CwHw 614-0/5 sl	44397778 sl,be,he	57511936 SsHw(Cw) 847-0/8	
11807853 la,be,sl	33941127 be	44708101 Ss 946-0/8	57721201 CwHw 825-0/7 sl	
12007952 la,sl	34059708 CwHw 826-0/6	44847670 Cw(Hw) 825-0/7 sl	57751245 HwCw 827-0/5	
12699769 SsHw(Cw) 945-0/10	34261107 HwSs(Cw) 814-0/5 sl,be	44991667 Hw 825-0/5 he	57821542 HwCw(Ss) 936-0/11	
14127562 by,be,sl,la	34410222 Cw(Hw) 714-0/6 sl	45456996 Cw(Hw) 826-0/7	78181100 Cw(Hw) 826-0/8	
14547494 CwHw 826-0/7	34568261 CwHw 823-0/7 sl,be	46070598 CwHw 510-0/4 he,by,sl	79059044 Cw 510-0/4 la,be,by,sl	
16099678 la,sl	34847286 CwHw 826-0/8	46258054 Cw 827-0/9	79477744 CwHw 714-0/6 sl	
16569404 by,he	35317714 la,sl	46418233 by,he	80579215 la,be,by,sl	
16767959 CwHw(Plc) 826-0/7	35460561 CwPlc 610-0/6 by,sl,he	46451531 he,sl,ur	81379438 he,sl	
17230378 CwHw 213-0/10 he,sl	35529549 Cw(Hw) 612-0/6 sl	46589249 CwHw 824-0/7 sl	83159359 HwSs 342-0/31 sl,rz	
17537427 CwHw 510-0/4 he,sl	35651015 SsHw(Cw) 833-0/7 he,sl,la	47678765 la,sl	84857763 CwHw 410-0/3 by,he	
17659966 by,sl,he	36029939 Cw(Hw) 824-0/7 sl	47748694 CwHw 610-0/5 by,he	85478185 Cw(Hw) 610-0/5 by,he,sl	
18178172 la,sl	36119575 Cw(Hw) 824-0/7 sl	48568806 la,sl	87457185 CwHw(Plc) 511-0/4 he,sl	
19459564 HwCw 715-0/3 sl	36380223 CwHw 824-0/8 sl	51051639 HwCw 835-0/9 sl	87983175 CwHw 610-0/6 by,sl,he	
21270417 Ss 227-0/22	36419657 la,be	51089294 CwHw(Plc) 610-0/5 sl,by,he	90037957 Cw(Hw) 621-0/8 he,by,sl	
23609603 la,sl	36499446 CwHw(Plc) 723-0/7 sl,he	52188224 CwPlc 822-0/6 sl,he	94348822 Cw(Hw) 510-0/4 he,by,sl	
24779569 es,sl	36850080/L HwCw 832-0/9 sl	52571747 SsHw 731-0/9 sl	94929195 CwHw 836-0/11	
25138795 HwCw 715-0/4 sl	37467253 CwHw 826-0/8	52587944 Cw 613-0/6 sl,he	95069067 Cw(Hw) 410-0/3 by,he,sl	
25449746 HwCw 823-0/5 sl	37519872 CwHw 517-0/5	53657957 Cw 825-0/6 sl	95297634 CwPl(Hw) 715-0/6 sl	
25606161 HwCw 815-0/4 sl	37838498 Cw(Hw) 824-0/8 sl	53877388 SsCwHw 833-0/10 sl	95438157 HwCw(Plc) 610-0/4 he,by,sl	
25918107 HwCw 815-0/4 sl	37979791 by,he	54197190 CwHw(Ss) 823-0/6 sl,he	96077648 CwHw 926-0/6	
26979750 HwCw(Ss) 823-0/5 sl	38707437 CwHw 836-0/12	54327158 HwSs(Cw) 937-0/10	96637861 CwHw 716-0/6	
27989620 HwCw 826-0/5	38717294 HwCw(Ss) 836-0/10	54367117 Cw(Hw) 823-0/9 hg,sl	96928053 CwHw 510-0/4 he,by,sl	
28769276 la,sl	38819951 CwHw 714-0/6 sl	54647489 CwHw(Ss) 823-0/6 sl,he	97367697 CwHw 716-0/6	