Vegetation Map

094O088

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
GL78

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

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

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

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

EXOTICS

	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	tc	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.

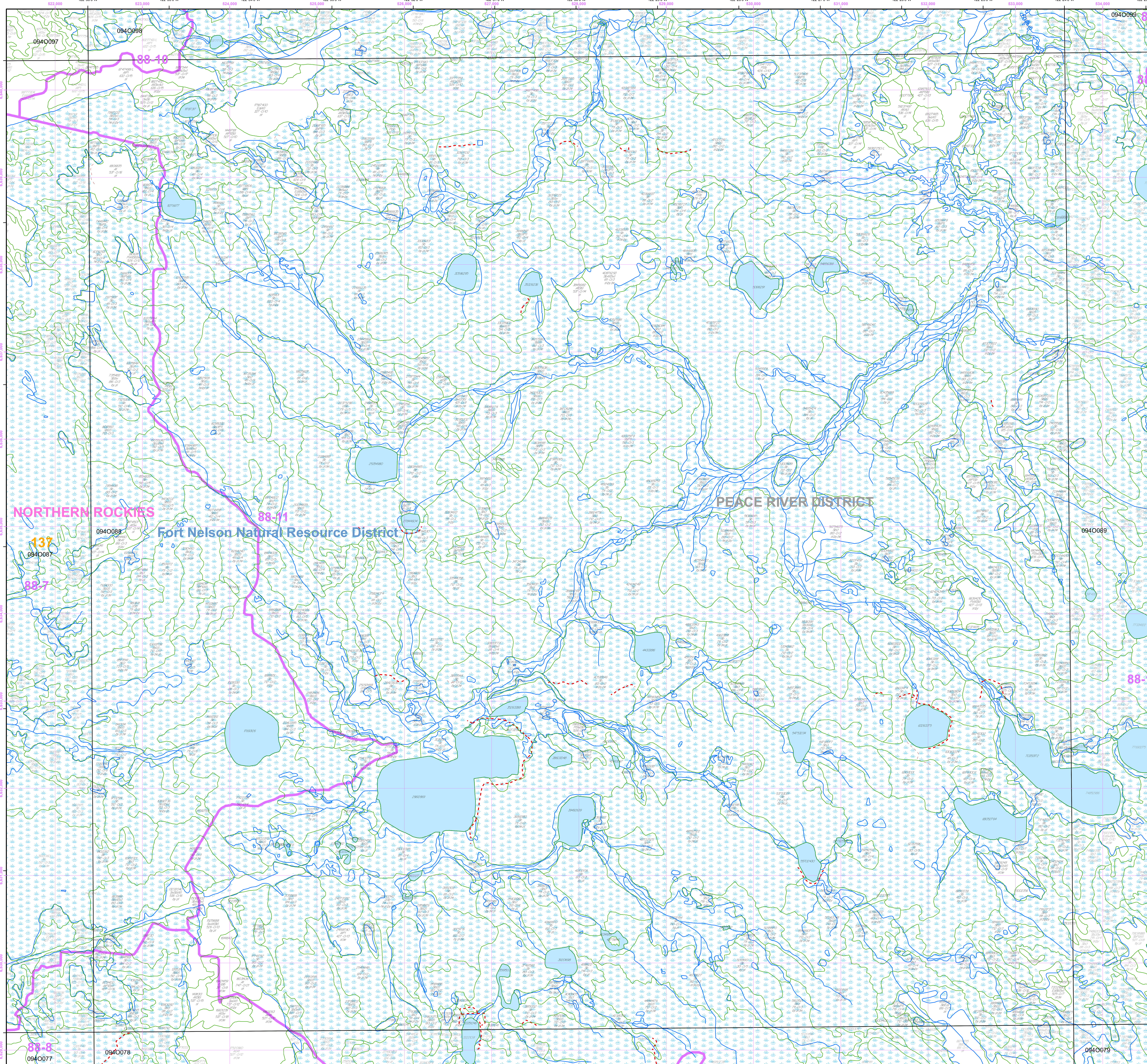
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

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

5047555 SwAt 846-O/18 by,sl	27781231 PlSw 527-O/11 by	64395970 Sb(Lt) 711-O/2 sl,by,he
7841696 SwAt(Pl) 526-O/12 sl,by	28611241 SbSw 815-O/4 by,sl	64567305 At 537-O/15 sl
7881775 SwAt(Pl) 526-O/12 sl,by	28693697 SbAtSw 717-O/4 sl	64734332 Sb(At) 815-O/4 by,sl,he
8091226 SbEp 815-O/3 by,sl	29567716 AtSb(Sw) 517-O/6	64914721 Sb 813-O/2 by,sl,he
8577035 Pl 527-O/12	31226527 SbLt 713-O/4 by,sl	65047304 SbSw(Pl) 815-O/2 by,sl
8661164 Sb(Lt) 612-O/4 by,sl,he	32007743 Sb(Pl) 411-O/4 sl,hg,by	66197586 Sb 413-O/4 by,sl,he
8736919 Sb(Pl) 526-O/12 by,sl	32801334 Sb 610-O/2 hg,sl	66957793 Sw(Sb) 636-O/12 by,sl
9261127 Sb 513-O/4 by,sl,he	34073236 Sb 713-O/3 by,sl,he	67374135 Sb(Pl) 826-O/5 sl,by
10231134 SbLt 614-O/3 sl,by	34814998 Sb(Pl) 416-O/4 by,sl	67447894 SbAt 417-O/7 sl
10497048 AtPl(SwSb) 527-O/10	35321241 Sb(Lt) 613-O/3 sl,by,he	67777611 Sb 815-O/3 by,sl
11077256 hg,sl,by,la	37833531 SwAt(Sb) 526-O/12 by,sl	68033307 Sb 613-O/3 by,sl
12557003 SbPl(Sw) 526-O/12 by,sl	38127758 Sb 711-O/3 by,sl,he	68827732 At 427-O/11 sl
13316776 Sb 411-O/4 by,he,sl	42003160 PlSb 526-O/11 by	69647779 Sb(Lt) 512-O/4 by,he,sl
14091242 Sb(Lt) 613-O/3 sl,by,he	42758642 hg,la	69827829 SbSw 426-O/12 sl,he
14592599 At(Sb) 537-O/15 sl	43612906 PlSb(Sw) 525-O/11 by	70285631 PlAtSb 526-O/12 sl,by
15116954 Sb(Pl) 514-O/4 by,he	45483817 Sb 710-O/3 hg,sl,by	70407879 SbLt 713-O/4 he,by,sl
16014126 Sb(Pl) 617-O/3 by	46827795 PlSb 426-O/10 by,sl	70717297 Sb 711-O/2 by,sl,he
16141643 AtSw(Sb) 536-O/17 by,sl	50373779 SbLt 813-O/3 sl,by	70781854 SbSw(Ea) 826-O/5 sl,by
17231938 SbPl(Sw) 716-O/5 sl	53854246 Sb 711-O/2 by,sl,he	70827021 Sb(At) 713-O/3 by,sl
17267651/L SbSw 812-O/3 sl,he	58707712 SbSwAt(Lt) 825-O/4	71002356 AtSbEa(Lt) 325-O/14 sl,he
17751595 EaAt(Sw) 326-O/10 sl	59547870 Sb 411-O/4 by,sl,he	71475195 Sb(Lt)SwEa) 813-O/3 sl,he,by
23194351 Sb 711-O/2 by,sl,he	60077653 At 537-O/15	72301441 At(Sb) 537-O/15 sl
23227686 Sb 511-O/3 by,sl,he	60232185 PlSb(At) 526-O/11 by,sl	72451723 Sw 536-O/16 sl
23253162 SbLt 711-O/2 by,sl,he	61001402 Sb(At) 526-O/9 by,sl	72803206 Sb 812-O/3 by,sl
23307602 Pl 626-O/12 by,sl	61864400 Sb(Lt) 825-O/5 by,sl	73502055 SbLtSw 715-O/4 sl,by
23386931 PlSb(Sw) 426-O/13 by,sl	62354257 Sb(Lt) 815-O/4 by,sl,he	
24062543 SbLt(Sw) 514-O/5 by,sl	63081393 Sb(PlAt) 626-O/8 sl,by	
24594300 Sb 711-O/2 by,sl,he	63374371 Sb 715-O/3 by,sl,he	
26034401 Sb 711-O/2 by,sl,he	63561389 Sb(Lt) 711-O/2 by,sl,he	
26307619 AtSw(Sb) 426-O/15 sl,by	63864511 Sb(Lt) 814-O/4 by,sl,he	
26446898 At,Sb(Pl) 426-O/13 sl	64247082 Sb 813-O/2 by,sl,he	
26447345 Sb 814-O/4 by,sl	64327488 Sw 636-O/15	