Vegetation Map

094P081

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:

O12
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

O12 - 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)	4b HEIGHT CLASS CODE	LIMITS (metres)	4c CROWN CLOSURE CLASS CODE	LIMITS (percentage)
				0	0 - 5
1	1-20	1	0.1 - 10.4	1	6 - 15
2	21-40	2	10.5 - 19.4	2	16 - 25
3	41-60	3	19.5 - 28.4	3	26 - 35
4	61-80	4	28.5 - 37.4	4	36 - 45
5	81-100	5	37.5 - 46.4	5	46 - 55
6	101-120	6	46.5 - 55.4	6	56 - 65
7	121-140	7	55.5 - 64.4	7	66 - 75
8	141-250	8	65.5 +	8	76 - 85
9	251 +			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 VEGETATED
el Exposed Land
ro Rock / Rubble
si Snow / Ice

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 CATEGORIES (for V and I records)

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

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

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

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

Line 6 - Disturbance History

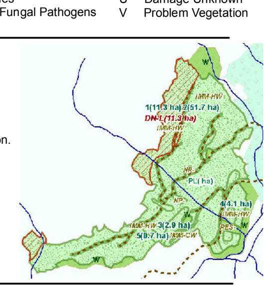
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

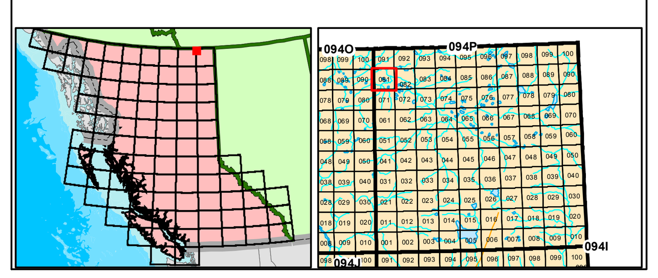
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

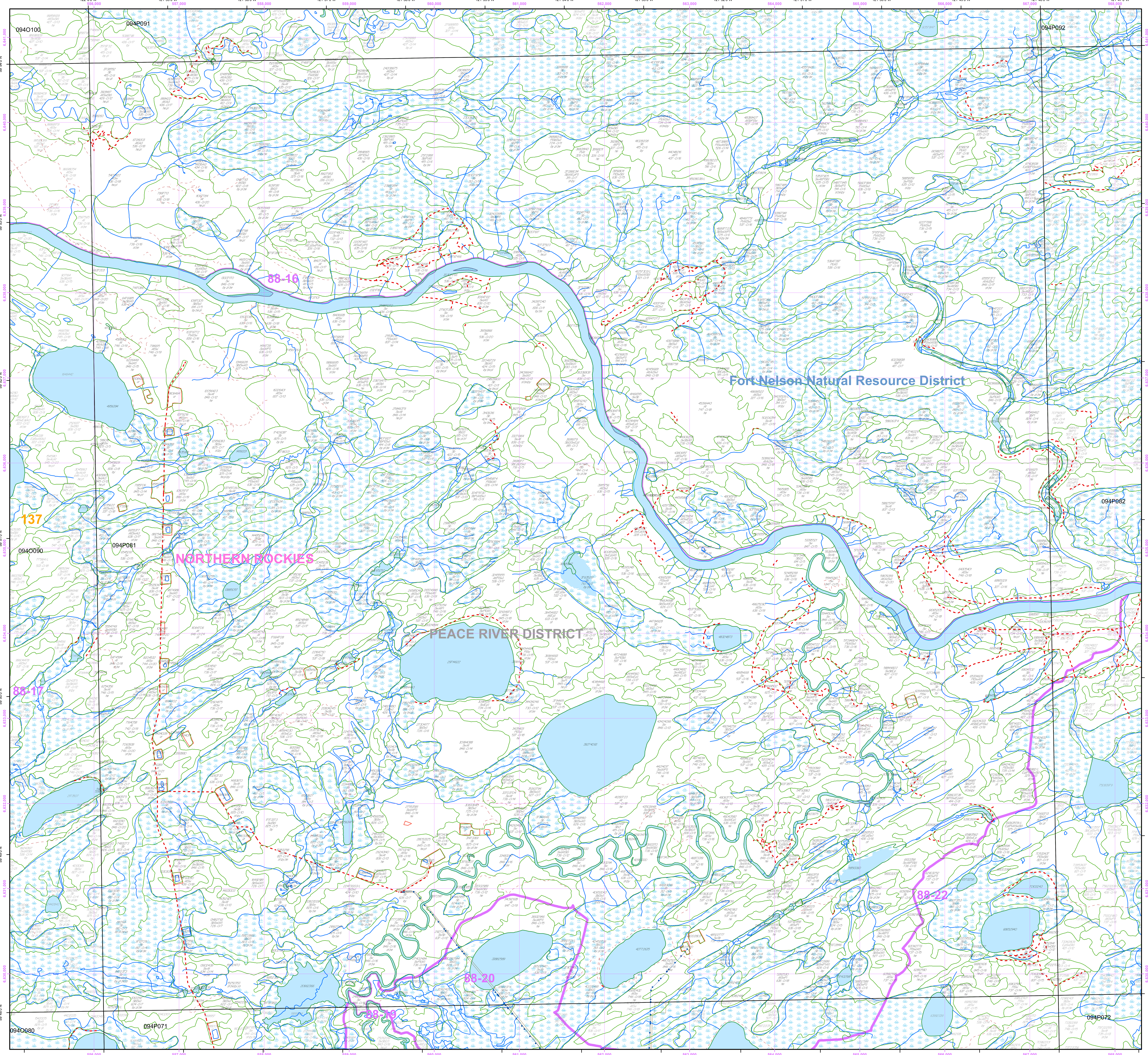
Example Opening History Details

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

2758435 Sb 312-O/12 by sl he	10624587 Sw 846-O/14 he	22796421 SwAt(EpPl) 533-O/15 st he	42125325 Sb 514-O/5 by sl he	50265576 AtSw(Ep) 427-O/15	61937083 Sb 810-O/3 by la sl he	70612700 Sw(At) 427-O/14 he
3108202 Sb 312-O/12 by sl he	10953060 ur	23217182 AcSwAt 636-O/17 he	42127254/L At(Sw) 832-O/14 he	55422894 Sb 610-O/5 by sl la he	62282993 At(Sw) 437-O/17 he	70634676 PlAt(Sw) 327-O/14 st
3538283 SwAt 535-O/14 sl he by ri	11214017 ur	23534722 Sb(Lt) 410-O/6 st by	42155944 Sw 846-O/14 he	51722412 Sb 813-O/4 by sl he	62734685 SwPlSb(EpAt) 427-O/12 st	70734934 PlAtSw(Sb) 636-O/13 st
3717352 AcAt(Sw) 636-O/16 sl he	11438237 Sb(Lt) 421-O/9 by sl he	23744970 la by sl he	42286124 At 426-O/15 he	58188238 Sb 510-O/5 sl he by la	62874142 SbSwEp(Pl) 517-O/6	70754481 Sb 412-O/6 by sl he
4056039 SwAcAt 645-O/23 he sl	11742690 ur	23867459 Sw(At) 835-O/12 he sl	42363437 Sw 845-O/18 he sl	52044995 At 437-O/16 he	63283637 SbEpSw(Lt) 413-O/8 sl by	71662931 SbSw(PlAt) 516-O/6 he
4186130 Sw(Sb) 836-O/12 st	12752214 Sb(Sw) 727-O/6	24152404 Ep(Sw) 420-O/12 he sl by ri	42655976 he by sl	52188211 Pl(Sw) 625-O/12 sl he by	63903614 At 427-O/13 he	71722702 Sb 823-O/4 by sl he
4465642 Sb 314-O/5 by	13603981 Sb 413-O/5 by sl he	24575097 PlSwSb(At) 636-O/18 he	42923474 Sw 845-O/18 he sl	52275759 Sb(Sw) 625-O/7 by sl	64004838 Sw(Pl) 636-O/14 st he	72062582 SbSw 825-O/4 by sl he
4625075 SbSw 825-O/4 by	14154617 Sw 736-O/13 he	24792240 SwSb(Lt) 843-O/16 he sl	43015802 Sb(Sw) 625-O/6 sl by	52382637 Sb(Lt) 925-O/3 by sl he	64703430 Sw(At) 846-O/14 st he	
4785225 Sb 814-O/3 by sl he	14633003 Sb(Lt) 411-O/6 sl by he	25664443 sl by he ri	43565684 At(Sw) 536-O/17 he	52473629 SwEp(AtSb) 436-O/19 st he	64947523 SbSw(Pl) 415-O/8 by sl	
5004434 At 742-O/19 st he	15542224 SwSb 636-O/10 by	27867205 AtSw(Ac) 536-O/20 st he	43647073 At 327-O/13	52935684 At(Sw) 426-O/14 st he es	65722723 SwSb(LtEp) 831-O/9 sl by he	
5293970 SwSb 736-O/14 by	15797389 At 436-O/17 st he	27872411 Ep(LtSb) 420-O/9 st he by	43996758 SbSw(AtAcEp) 526-O/7 st	53373677 SwAt 845-O/15 st he	65852609 SwAt 842-O/16 st he	
5364152 Sb 612-O/4 by sl he	15832470 Sb(Lt)(SwEp) 720-O/6 sl by he	28127566 AtEpSw(PlAc) 326-O/15 st	44595860 SbEpSw(Lt) 626-O/7 st	54823675 Sw 845-O/18 he st	66096686 At(Ep) 846-O/18 he	
5483656 SbSw 625-O/7 by sl he	16735938 Sb(Sw) 820-O/4 sl by ri he	28172917 Sw 846-O/16 st he	44673437 Sw(AtSb) 736-O/12 he	54844264 At 437-O/16	66572745 Sb 412-O/6 by sl he	
5503823 AtSw 746-O/20 st he	16796001 SbSw(Pl) 825-O/5 sl he by	28324894 SwAt(Sb) 744-O/16 st he	44885889 Sw 846-O/14 he	55853405 Sb 312-O/5 by sl he	66715568 Sb(Lt) 612-O/4 by sl	
5583449 Sb 811-O/2 by sl he	16852362 Sw 735-O/13 st he	28767416 At(Sw) 535-O/16 he sl	45128038/L PlSw(At) 732-O/13 by	56176868 Sb(Lt) 814-O/3 by sl he	66896424 Sw(AtPl) 846-O/13 he	
5952780 Sb(Sw) 925-O/3 by sl	17067519 Sw 536-O/17 by sl he	29395963 Sb 421-O/11 by he sl	45393021 Sb(SwEp) 611-O/5 sl by he	56536500 Sb(Lt) 814-O/3 by sl he	66933022 by he sl	
6039451 Sb(At) 411-O/8 by sl he	17418713 Sb 313-O/5 sl by	31645307 Sb(Pl) 625-O/7 by	46322434 Sb(Lt) 925-O/3 by sl he	56623289 SbEpSw 820-O/4 by sl he la	66954881 Sb(SwEp) 416-O/6 st	
6075599 ur	17456726/L SwAc(At) 842-O/15 st he	32347115 Sb(Sw) 426-O/9 sl by	46322720 ur	56724571 EpSwPl(At) 326-O/13 st he es	67136313 Sb 810-O/3 by la sl he	
6158601 At 436-O/17 by	18206456 Sw 636-O/12 sl he	33964643 At(Sw) 634-O/17 he sl	46586751 Sb 516-O/5	56793142 Sb(SwPl) 627-O/6	68003347 Pl(AtSw) 836-O/16 he	
6244187 SwSb 736-O/14 by	18302590 Sb 820-O/4 by sl he	34207617 At(Pl)Sw 536-O/17 he	47002803 ur	57113068 Sb 410-O/5 by sl he	68037584 At(PlSw) 437-O/18 he	
6252185/L Sb(Sw) 921-O/4 by sl he	18311589 SwSb(Ep) 830-O/8 st	34926532 ur	47393739 Sb 526-O/7	57672846 SwEpSb 831-O/10 sl by	68248720 Sb(Lt) 824-O/4 by sl he	
6305529 Sb 314-O/5 by	18732383 by la sl he	35506817 SbSw 815-O/3 by	47883291 Sw(EpAt) 535-O/14 st he	58303207 Sb 412-O/6 by sl he	68329003 Sb 613-O/4 sl by he	
6637203 Sw 636-O/16 he	18737101 AtAc 536-O/17 he	35532330 Sb(Lt) 810-O/4 by sl he la	47897952 Sb 510-O/5 sl he by la	58603003 Sb 412-O/6 by sl he	68424793 Sb 412-O/6 by sl he	
7102186 SbSw(At) 826-O/6 by	19652601 SbSw 824-O/6 by sl he	36375490 EpSbSw(At) 426-O/13 st	48088886 Sb(Pl) 314-O/10 sl by he	58606374 PlSwSb(At) 635-O/14 he sl	68438787 Sb 613-O/3 he sl by	
7248664 Sw(Sb) 536-O/14 by sl	19755912 PlSw(At) 635-O/15 st he	36577026 Sb 813-O/3 by sl he	48483237 Sb 312-O/5 by sl he	58614939 SwEpSb(At) 527-O/11 st	68948007 PlAt(Sw) 536-O/14 he	
7417086 Sw 746-O/16 he	19885621 SbSw 825-O/5 by sl he	38557373 Sw 845-O/16 he st	48523019 Sb(Sw) 824-O/5 by sl he	59156152 Sb 313-O/6 by sl he	69175242 SwAtEp 536-O/12 st he	
9066134 ur	20025314 At(Sw) 737-O/16	39095752 AtAcSwEp 736-O/16 he	49078124 PlSw 625-O/12 sl he by	59278589 Sb 710-O/4 st la he by	69185117 Sw 535-O/14 he st	
9352258 EpSb(Sw) 425-O/11 st he	20794522 Sb(Lt) 410-O/6 st by	39835266 Sb 514-O/7 by he	49277856 AtPlSw 536-O/16 he	59303470 Sw(AtEp) 635-O/15 he st	69516189 Sb 311-O/5 by sl he	
9808662 At(Sw) 326-O/16 by	21594643 SwSb 537-O/12	40346935/L At(Sw) 326-O/14 he	49303217 At(Sw) 537-O/16 he	59394423 cb he	69829920 Sw(AtPl) 846-O/13 he	
10303061 Sb 824-O/5 st by he	21843534 by la he sl	40358837 Sb 823-O/4 sl by	49552470 Sb(Sw)(Pl) 625-O/6 st he by	59595020 Ep 328-O/14	69975955 Sb 810-O/3 by la sl he	
10393880 Sw 845-O/14 he sl	22004559 SbSw 525-O/8 by he	40435568 SwEp(At) 325-O/18 st he	50043796 SwAtEp 843-O/15 st he	60023964 Ac 645-O/19 st he	70205057 AtSwEp(Sb) 327-O/15	
10454053 Sb 416-O/4 by	22734611 by he	41176097 SwEp(At) 328-O/16	50182418 At 636-O/19 he	61274487 ur	70605922 Sw 535-O/14 he st	