Vegetation Map

094O094

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 dtained 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
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.

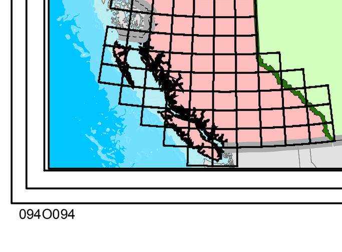
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

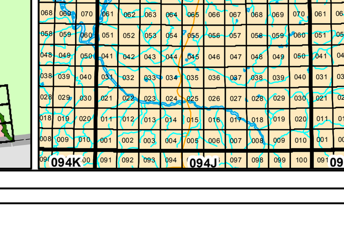
Example Opening History Details

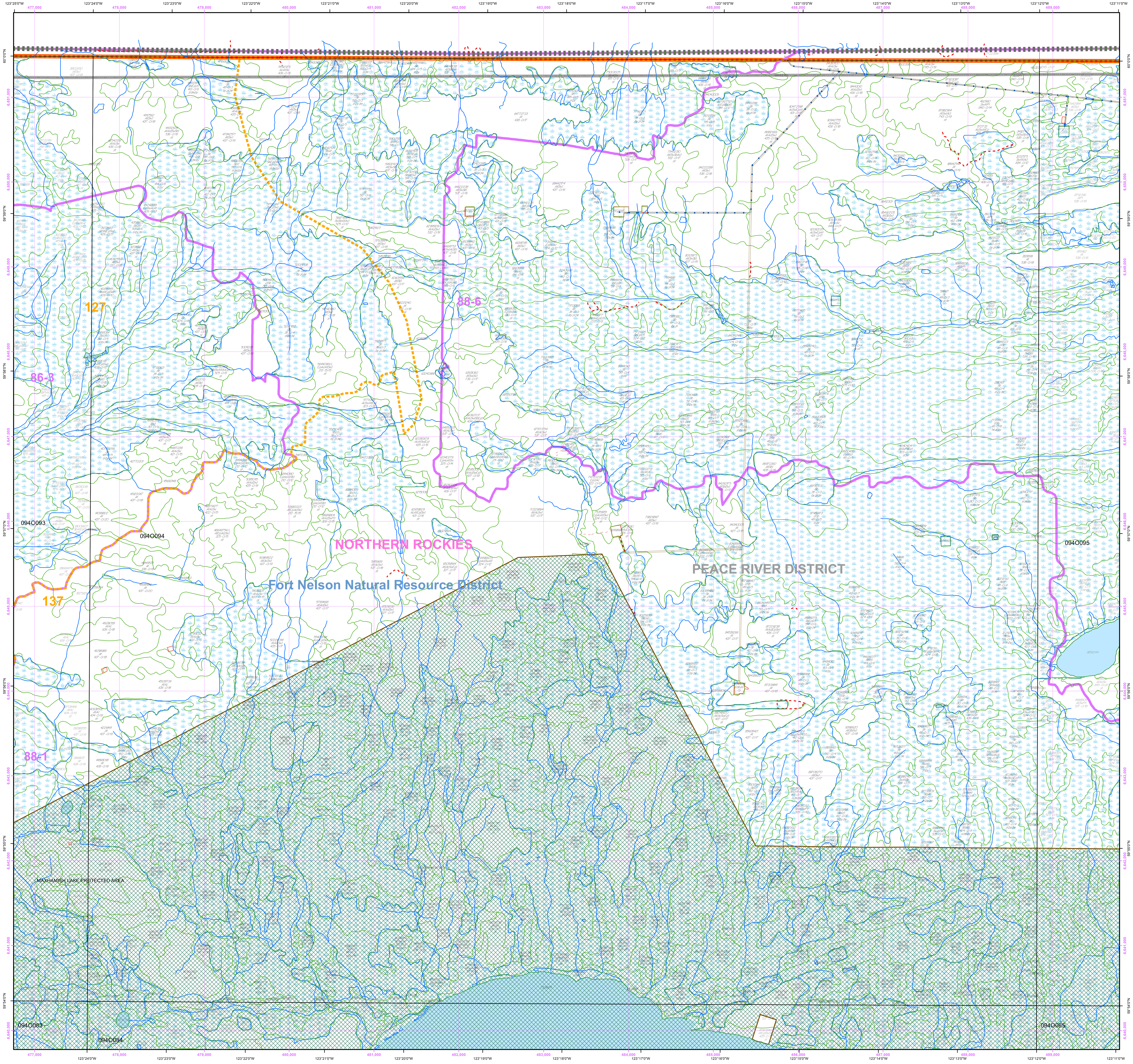
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

541452 mu	41526539/L LtSbSw 821-0/8 sl be by	62261153 SbSwEp(Lt) 425-0/9 st	86487667 EpSbLt(AcSw) 310-0/10 st he
1328661 Sb(Pl) 313-0/10 st he	42136640 Sb(Lt) 414-0/8 sl be by	62376611 AtEpAcSw 321-0/16 st	86567571 AtSbSw(Ep) 425-0/13 sl
1526858 SbAtSw(Pl) 526-0/8 sl	42586555 LtSb 311-0/9 hg sl by	63240986 AcSbEp(LtAt) 321-0/14 st	86931302 mu
2689974 re sl be	42770201 SbAtEp(SwPl) 426-0/10 sl	63436629 At(Sw) 426-0/15 st	87930967 SbLtSw 725-0/6 sl
2767022 Sb 413-0/6 sl by	43706772 SbSwEp(AcAt) 421-0/10 st he	64093117 Sb 614-0/5 sl by	88891041 Sb 414-0/7 sl by
3182167 Sb(Lt) 413-0/7 sl be by	45449453 EpSwAt(Sb) 324-0/12 st	64329864 EpAcSbAt(Sw) 211-0/12 st	90911561 st be G
3651511 SwAt 730-0/14 st	45690148 EpAtAc(Sw) 324-0/11 st	64587685 EpAtSb(Sw) 314-0/8 st	91276706 SbSw(At) 524-0/8 st he
4047447 SwSb(At) 535-0/16 sl	47693021 Sb(Lt) 414-0/6 sl by	64733115 Sb 614-0/5 sl by	91336963 EpSwAc(LtAt) 323-0/13 st
4163239 At 545-0/21 st	50551342 SbSwAt 525-0/9 sl by	65206604 he sl	91376817 SbEpAt(SwAc) 315-0/10 sl
4242664 AtSwEp(Pl) 325-0/13 st	51211313 sl be es G	65212071 sl be G	92216707 Sb 411-0/4 sl by he
4302815 SwSb(At) 426-0/13 st	51607528 AtSb 427-0/15	66281393 AtSwSbEp(Ac) 433-0/16 st	92491391 EpAcSwSb(Lt) 321-0/12 st mu
4681755 Sb 413-0/7 sl be by	51702459 AtSwSb(Ac) 437-0/16 st	67237140 EpSbSw(Ac) 311-0/9 st	92756710 SwEpSb(At) 425-0/13 st
4741608 Sb 613-0/6 sl be by	52476548 SbSwEp(AcAt) 421-0/10 st he	68550794 SbLtAcEp(At) 413-0/7 st	93826933 SbAtSw(Lt) 414-0/6 sl by
5031341 SwSb 421-0/17 st he	53586559 SwSb 534-0/15 sl	70920703 AtSw(AcSb) 434-0/17 st	93931359 mu
5160435 SbLt 413-0/8 sl be by	53943043 Sb 614-0/5 sl	72317736 AtSw(SbAc) 534-0/17 st	93987136 SbEp(AtSwAc) 313-0/10 st he
5200356 SbLt 413-0/7 sl be by	54137463 AtSb 427-0/15	73019517 SbEp(AcLt) 513-0/6 sl by	95003195 AcSwEpAt 431-0/17 st
5569981 Sb(Lt) 411-0/4 sl be by	54170313 AcAtEp(SwSb) 435-0/16 st	73059392 AtAcSwEp) 435-0/16 st	95376736 Sb(At) 415-0/6 sl by
5639471 SwEp(Sb) 426-0/15 st	54448087 AtSbSwAc) 436-0/16 st	74217591 EpSbSwAc 312-0/10 st he	96317620 EpSbSw(AcAt) 322-0/12 st
5758856 Sw(AtEp) 535-0/16 sl	54896570 EpSwAt(SbAc) 313-0/10 st	74960607 LtSb 321-0/10 he sl	96412301 AcSbSwEpAt) 435-0/16 st
5837226 Sw(AtSb) 534-0/14 sl	55886751 SbEp(LtSw) 314-0/7 sl by	75722117 sl be by es G	97061318 EpSb(AcSwLt) 310-0/8 st
6016999 SbPl(AtSw) 426-0/11 sl	56736771 SwSb(At) 524-0/13 sl he	76199863 AtSw 430-0/16 sl be es G	97396724 SbEpLt 410-0/3 sl
6178105 SwSb 420-0/12 st he	57506598 At(SwSb) 327-0/15 sl	78096811 EpSbSw(AcLt) 311-0/10 st he	98712367 AcSbEp(At) 310-0/8 sl be mu
6207787 SbSw(AtLt) 525-0/10 sl be	58267852 SbLt(At) 413-0/6 sl be by	78443070 AcSwAt(SbEp) 421-0/14 st	99269929 sl be by
6436848 Sb(Lt) 413-0/6 sl be	58470323 AcAtEp(SwSb) 433-0/16 st	79268776 Sb 412-0/3 sl by he	99687383 SbSwAt(Lt) 414-0/7 st
6437552 SwSb(Lt) 522-0/8 st he	58642889 Sb 514-0/3 sl by	83218631 SbAt(AcEpSw) 413-0/4 sl by he	
6487809 SwEp(Sb) 631-0/15 st he	59521738 SbAtSwEpAc) 526-0/8 st	83858604 AtAcEp(Sw) 226-0/18 st	
6627040 AtSw(Pl) 636-0/18	59596616 At(SwSb) 327-0/15 sl	84043005 AcSwAt(Ep) 423-0/16 st	
6806947 AtSw(PlSb) 326-0/16	59621923 EpAcSb(Sw) 326-0/12 st	84057143 SbEp(SwLtAc) 413-0/8 st he	
39012281 SbAtEpSw 416-0/9 st	60163049 EpSbSwAc(Lt) 425-0/8 st	85256745 At(Sw) 537-0/18	
40059304 AtSb(AcSwEp) 436-0/18 st	60711639 Sb 515-0/6 sl by	86046721 EpSwSb(AcAt) 323-0/13 st	
40069764 SbAtEp(Sw) 425-0/10 st	62041729/L Sb 411-0/4 sl by he	86356676 Sb 412-0/4 sl by he	
40887082 AtAcSwEp(p) 535-0/18 st	62150136 At(AcSw) 537-0/17	86438920 EpSwAt(AcSb) 324-0/10 st	