BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
094N009

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 (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; 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.

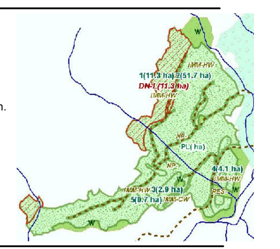
A Animal Damage; B Wildfire; C Cone and Seed Insects; D Diseases; I Insects
L Logging; M Mite Damage; N Non-Biological Injuries; P Cone and Seedling Fungal Pathogens
R Site Rehabilitation; T Treatment Injuries; U Damage Unknown; V Problem Vegetation

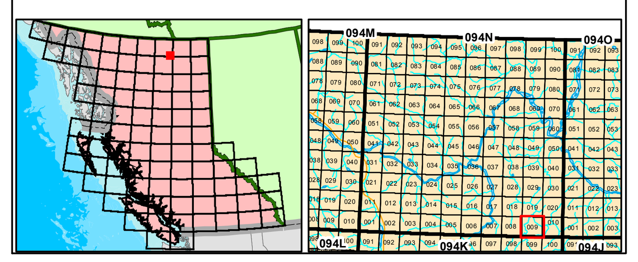
Example Opening History Details

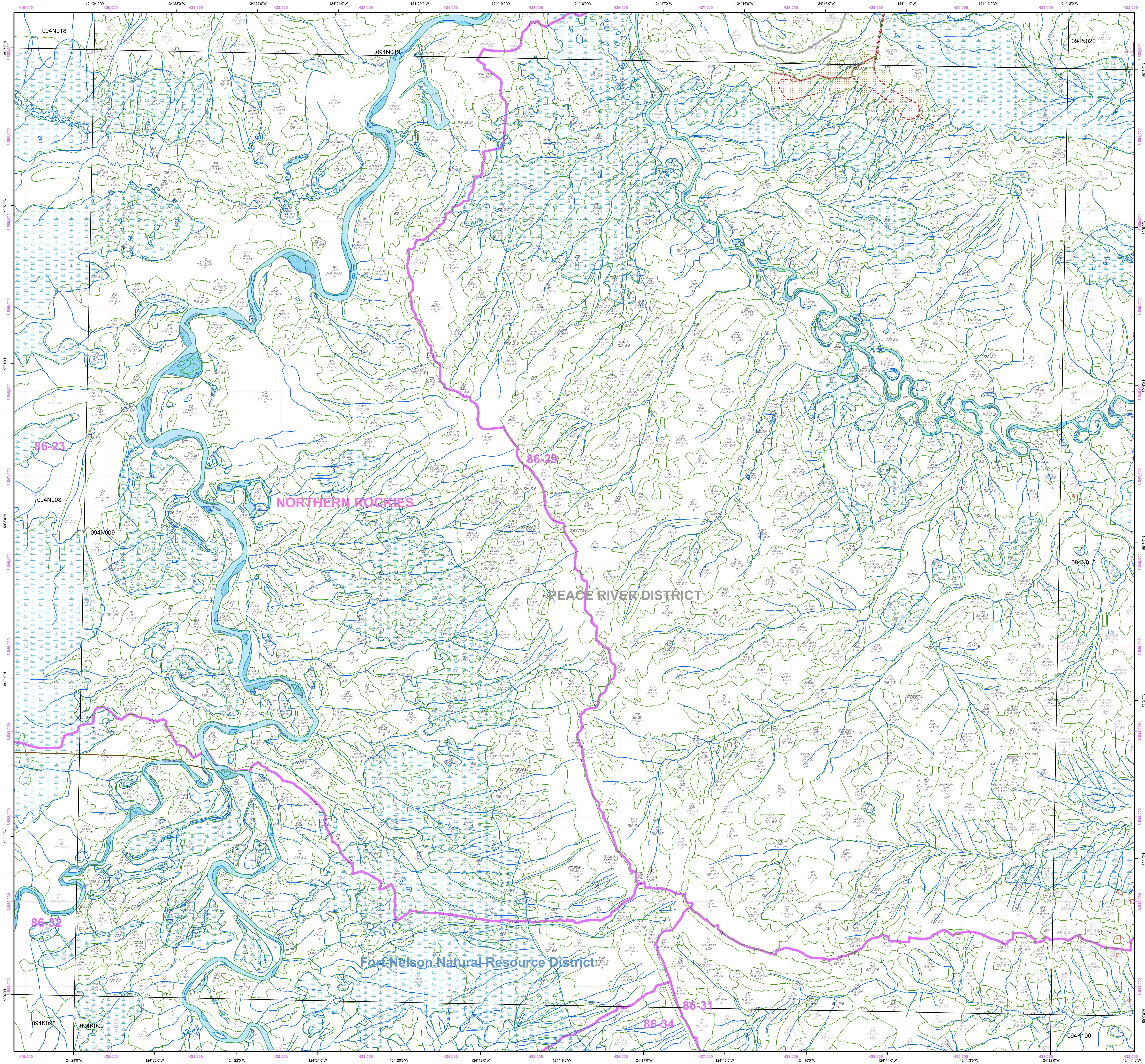
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

1 Sb 726-7/6 sl	60 SbSw 625-8/7 sl	170 EpAtSb 422-12/11 st	240 AtSb 735-14/13 st	366 Act 222-21/21 sl te rs	456 Sb 715-5/5 sl	626 AcSwSb 635-16/17 st	718 EpAtSw 622-10/9 st	825 EpAtSb 633-13/12 st	906 Act(Sw) 746-16/15 st	971 At(Sb) 735-17/16 st	1051/L Sb 722-7/6 sl te	1187 Sb(Bl) 715-5/5 sl
3 Ep(At) 624-12/11 st	62 AtSb 734-17/16 st	171 Sb 615-6/5 sl by	249 SbAt 721-7/6 st	368 Sb 726-10/9 sl	458 Sb 716-5/5 sl	628 SwAc(Sb) 636-14/13 st	722 Ep(SbAt) 626-11/10 st	826 Sb(At) 726-8/8 sl	907/L Act 225-18/18 st	973 Sb 725-8/7 sl	1054 Sb 726-8/7 sl	1191 Sb 726-7/6 sl
4 Ep(At) 624-12/11 st	63 SbSw(Ep) 723-8/7 st	175 AtEp 731-18/17 st	252 AcSbSw 636-17/17 st	369 SbAct(At) 725-8/8 st	463 At(Sb) 734-16/15 st	629 Sb 711-5/5 sl	724 AtSb 631-13/12 st	828 Sb 720-6/6 sl	909 Act(Sw) 632-14/13 st es	975 At 735-17/16 st	1059 EpSb 520-12/11 st	1201 Sb 726-10/9 sl
5 At(Sb) 736-18/17 st	64 At 746-20/19 st	182 AtSb 735-16/15 st	253 SwAc 635-17/16 st	372 Act 325-18/18 st rs	465 At(Sb) 732-14/13 st	630 Sb 715-5/4 sl	730 Sb 736-11/10 st	830 At(EpSb) 735-16/15 st	911 AcSw 632-15/16 st	977 Sb 726-6/5 sl	1061 Sb 724-7/6 sl	1207 PlSb 836-12/12 sl te
7 Sb 726-9/8 st	66 Sb 716-5/4 sl	185 Sb(PlAt) 726-10/9 sl	254 SwSb 631-16/15 la st	392 Sb 716-5/5 sl	469 Sb 721-10/9 sl	634 Ac 227-18/18 st	731 AtSb 734-13/12 st	833 EpSb 314-10/10 st	912 SbAt 724-8/8 sl	979 AtSb 736-16/15 st	1065 Sb(Lt) 715-5/5 sl	1208 SbBl(At) 825-8/8 sl
8/L AtSbEp 731-16/15 st	71 Sb 720-6/5 sl by	186 Sb 627-10/10	255 AcSw 636-17/17 st	390 Sb(Lt) 724-8/7 sl by	472 SbPl(At) 736-11/10 st	635 Sb(Sw) 726-10/9 st	733 SbAt(Ep) 623-8/8 st	844 Sb 610-5/5 sl	914 Sb(At) 725-8/7 sl	980 Sb 726-6/5 sl	1071 AtSb 631-14/13 st	1212 SbAtPl(Bl) 825-10/9 st
12 Sb 720-9/8 sl	75 Sb(At) 736-12/12 sl	187 Sb 726-8/8 sl	261 SwSb 636-16/15 st	393 Sb 715-5/4 sl by	474 EpSbPl(At) 624-11/10 st	636/L AcSw(Ep) 326-18/18 st	734 SbAt 726-9/8 sl	845 Sb 726-6/5 sl	918 AtSb 632-14/13 st	982 SwAc(Sb) 734-14/13 st	1072 Sb 726-9/8 st	1215/L SwEp 733-14/13 st
13 SbAt 726-8/8 st	76 Sb(At) 736-12/12 sl	191 Sb 620-10/10 la st	268 Sb 726-6/6 sl	400 At(Sb) 734-15/14 st	482 Sb(Ep) 722-10/9 st	637 AcSw(At) 636-17/17 st	738 AtSw(Sb) 735-16/15 st	847 Sb 716-5/5 sl	919 Sb 616-6/5 sl	983 Sb 727-9/8	1073 Sb 726-6/6 sl	1216 Sb(Lt) 724-7/6 sl
18 At 735-18/17 st	84 SbAt 726-10/9 sl	192 Sb 616-5/5 sl	282 AtSbEp 622-12/11 st	405 Sb 726-7/6 sl	485 At(PlAc) 735-16/15 st	638 AcSw(Sb) 636-15/16 st	739 SbEp 626-6/6 st	850 Sb 720-6/6 sl	924/L Sb(At) 612-6/5 st	985 Sb 716-5/5 sl	1081 Pl 725-9/9 sl te	1218 Act 221-18/18 sl rs te
19 EpSb(At) 523-13/12 st	85 SbAt 720-9/8 st	193 Sb(AtSw) 626-10/9 st	285 SbAtEp 722-8/8 st	406 Sb 715-5/4 sl	487 EpSbAcAt(Sw) 625-13/11 st	639/L Act 226-18/18 st	746 AtSb 622-10/9 st	859 At 735-18/17 st	927 Sb 716-5/4 sl	988 SwAc 735-14/14 st	1082 SbPl 611-5/5 he by sl	1219 Act 222-18/18 st rs
22 EpAt(Sb) 423-12/12 st	92 Sw(AtSb) 846-17/16 st	194 AtSb 736-17/16 st	287 EpSbAt 521-11/10 st	411 Sb 727-8/7 sl	498 Sb 724-6/6 sl	642 Sb 715-5/5 sl	750 SwSb(Bl) 736-11/10 st	860 Sb 725-10/9 sl	930 AtSb 622-12/11 st	989 SwAc 735-14/14 st	1089 PlSbAt 726-12/11 sl te	1221 Act 635-15/14 st rs
26 EpSb 421-11/11 st	95 At(Sb) 746-20/19 st	196 Sb 620-10/10 la st	289 Sb(AtPlSw) 726-10/9 st	412 Sb 726-8/7 sl	499 Sb 726-8/7 sl	644 Sb 715-5/5 sl	751 SbEpBl 727-9/8	863 Sb 725-6/6 sl	931 AtSb 622-12/11 st	990 Sb(Ep) 614-4/4 sl te by	1090 st	1222 Sb 720-7/6 hg
27 Sb 626-8/7 sl	98 At 746-20/19 st	197 Sw(Ac) 636-17/16 st	290 At(SbSw) 735-17/16 st	414/L ActSb 742-17/16 st	501 SbAt 721-7/6 st	645 AcSw(Sb) 534-14/15 st	755 SbBl(Ep) 721-10/9 st	867 SwSb 736-14/13 st	933 Sb 715-5/4 sl by	991 Sb 726-6/5 sl	1097 Sb 716-5/5 sl	1223 Sb(Pl) 826-8/7 sl
29 PlAt 736-14/13 st	105 SbAt 736-12/12 st	200 Sb 726-10/9 sl	298 SbEp 721-6/5 st	416 Sb 615-6/5 sl	502 At(SbPl) 725-12/11 st	646 AcSw(Sb) 745-17/18 st	756 At(SbBl) 635-13/12 st	871 Sb 727-10/9	934 AtSb 622-12/11 st	997 Sb 723-8/8 sl	1098 SbPl 826-10/9 st	5375832/L SbPl 736-11/10 st GI11
32 AtPl 736-17/16 sl	119 Sb 714-4/4 sl	203 Sb 616-6/5 sl	300 Sb 610-6/5 sl es	417 SbSw(At) 726-8/8 st	508 Sb 725-6/6 sl	648 Ac 436-14/15 st	760 Sb(Bl) 511-6/6 la sl by	872 Sb 726-10/9 sl	937 EpAt 623-11/10 st	1004 SwAct 735-15/14 st	1102 Pl 826-10/10 sl	54837267/L PlSbAt 720-12/11 sl te GI11
34 PlAt 736-15/15 sl te	120 Sb 716-5/4 sl	204 Sb 726-8/7 sl	301 SbPl 726-9/8 sl by	419 Sb 720-6/5 hg la	516 SbPl 621-8/7 st	649 Ac(Sw) 636-17/18 st	762 SbBl 526-9/8 sl	876 SbEp 620-8/8 es sl	938 Sb 726-8/7 sl	1006 Sb 716-5/5 sl	1103 Pl 827-7/6 sl	58980070/L PlSb 723-7/7 sl GI11
35 PlAt(Sb) 733-13/13 st	129 Sb 727-8/7 sl	208 Sb 626-7/6 st	303 SbEp 724-6/6 st	420 Sb 726-8/8 sl	517 Sb 724-6/5 st	650 AcSw 326-17/17 st	763 SbBlAt 621-9/8 st	877 ActSw 326-12/12 st	942 AtSb(Ac) 632-16/15 st	1007 Sb 716-5/5 sl	1106 Sb 820-7/6 sl	69159039/L PlSb 726-9/9 sl GI11
36 At(Act) 735-18/17 st	130 Sb(AtPl) 736-11/10 st	209 SwAct 646-24/23 st	315 Sb 726-10/9 sl	424 Act 225-21/21 st	527 EpSb(Pl) 526-10/9 sl	651/L Ac 226-18/18 st	764 SbBlAt 722-9/8 st	879 Sb 727-10/9 sl	943 Sb 610-6/5 sl hg	1009 Sb 610-4/4 hg by	1107 Sb 820-7/6 sl	69303263 SbPl(At) 736-11/10 sl
38/L ActEp 324-14/13 st	133 Sb 727-8/7	211 Sb 624-8/8 st	327 Sb(EpPl) 726-6/6 st	425 SbSw(Act) 723-8/7 st	533 EpSbAt 624-10/9 st	653 SbAt 623-8/7 by sl br	765 AtPl 734-13/12 st	881 SwSb 736-15/14 st	944 SbAc(Sw) 727-10/9 st	1016 hg by la	1118 Pl 725-6/5 br by	72283255 At 735-18/17 st
39/L ActEp 324-14/13 st	134 Sb(Ep) 627-9/8 st	212 Act(Sw) 222-18/18 st te	330 Sw 636-15/15 st	426 SwSb(Act) 734-12/11 st	542 Sb(Ep) 726-8/7 sl	654/L Ac 224-15/15 st	770 SbBl 726-10/9 sl	882 Act 736-15/14 st	946 AcSb 731-14/16 st te	1019 AtSbAc(Sw) 735-18/17 st te	1124 PlSb 610-4/4 br by sl	74843264/L At(Sb) 642-0/19 st
40 Sb(At) 727-10/9	137/L At 742-19/18 st	214 SwAct(Sb) 645-18/17 st	335 ActAt(Sw) 745-19/19 st	427 AtSw 730-17/16 st	548 SwAt 732-11/10 st	655 AcSw 734-14/16 st	789 br sl by	883 Act 324-15/15 st rs	947 Act 222-18/18 st rs	1021 Sb 611-4/3 sl by hg	1134 SbPl 825-10/9 sl	75623106 AtSb 733-18/17 st
41 Sw(At) 736-14/14 st	140 AtSb 746-20/19 st	215 Act 326-15/15 st	338 ActSb 632-16/15 st	428 Act(Sw) 636-16/15 st	556 SbEp 720-6/6 st	667 At 745-19/18 st	792 SbEp 725-6/6 sl	884 Act 746-18/17 st	950 Sb(AcLt) 622-7/6 sl te	1025 Act 326-15/15 st	1136 SbBl 821-8/8 st	75903280 PlSb 726-10/10 sl te
42 EpSb 324-13/12 sl by	143 AtEp 741-19/18 st	216 AcSw 646-24/23 st	341 ActSb 641-17/17 st hg la	435 Act(At) 846-15/15 st	565 SbAtSw 723-9/8 st	670 Sb 716-5/5 sl	793 la by	885 SbAc 720-6/6 st	951 ActSw 735-13/13 st	1026 Sb 622-7/6 st	1137 Sb 725-6/6 sl	76183020 AtPlSb 646-0/19 st
43 SbAt 726-10/9 st	144 AtEp 741-19/18 st	218/L ActSw 645-21/20 st	342 At(SbSw) 635-17/17 st	436 ActSbAt(Sw) 743-16/15 st	568 SbAt(Ep) 625-8/7 st	671 SbEp 725-9/8 st	797 AcSb 630-11/12 st	890 SwAc 846-17/16 st	952 ActSw 324-15/15 st es	1028 Sb 726-8/8 sl	1146 BlSb 823-10/8 st	77143007 AtSb 735-16/15 st
45/L AtAc 224-15/15 st es	145 SbAt 735-11/10 st	222 Sw 532-18/17 st te	343 At(Sb) 741-19/18 he pl sl	437 SwAt 423-12/11 st	574 AtSb(Sw) 735-13/12 st	672 AtEp(Sb) 632-16/15 st	805 SbAt 724-9/8 st	891 Sb 826-9/8 sl	953 ActSw 735-14/14 st	1030/L AtAcSw 213-12/12 es sl	1149 BlSb 726-9/7 sl	78172924 At(Ep) 745-19/18 st
47 AtSb 732-17/16 st	146 AtEpSb 732-17/16 st	224/L SwAct 633-16/15 st	344 SbAt 726-8/8 st	441 Sb 620-7/6 hg sl	575 At(Sb) 735-14/13 st	674 AtSbEp 732-13/12 st	806 Sb 727-10/9 st	894 SwAt(Sb) 736-11/10 st	954 Sb 720-7/6 hg by	1032 Sb 721-7/6 sl te	1152 Sb 726-8/8 sl	80673022 AtPl 731-18/17 st
49 SbSw(AtAct) 736-11/10 sl	149 SbAt 736-12/12 st	225 Act 221-18/18 st te	352 Act 222-18/18 he rs sl	443 AtSbEp 733-16/15 st	577 Sw(AtSb) 633-12/12 st	675 EpAtSb 623-11/10 st	807 Sb 725-10/9 st	895 ActEp(Sw) 326-12/12 st	957 Sb 610-4/4 st la te	1036 Sb 615-5/5 sl by	1157 AtSb(Bl) 731-12/11 st	80753120 SbPl 727-10/9
52 Act 324-21/21 he sl rs	153 Sb 626-8/7 st	228 At 735-18/17 st	353/L Act 741-23/22 st	444 SbAt 725-8/8 st	581 At(Sb) 736-17/16 st	684 Sb(EpAt) 622-8/7 st	812 Sb 727-8/8 st	896 Sb 715-5/4 sl	959 ActSw 635-15/14 st	1037 AtSw(Sb) 734-16/15 sl te	1162 PlSb 826-7/6 sl	89459075/L PlSb 725-12/11 sl te GI11
54 AtAct 732-18/17 st	154 Act(SwAtSb) 745-18/17 st	229 Sw 636-15/15 st	358 AtSb 735-17/16 st	450 Sb 620-8/8 la te sl	585 AtEpSb 732-14/13 st	687 Sb(At) 625-10/9 st	813 SbAt(Ep) 725-10/9 st	900 SbSw(At) 725-10/9 st	960/L Act 742-15/14 st	1044 Sb 715-5/5 sl	1165 Sb(Pl) 816-5/4	89918593/L Sb(Pl) 724-9/8 sl GI11
55 Sb 727-9/8	155 Act 224-21/21 sl rs	230 AtSw(Sb) 734-18/17 st	362 Act(At) 226-18/18 st	451 At(Sb) 630-14/13 st	600 SbAt 725-10/9 st	701 Sb 727-7/7 st	815 Sb(Pl) 727-10/9 st	901 Sb 726-6/5 sl	962 ActSw 746-16/15 st	1047 Sb 613-5/5 sl te	1168 Sb 826-10/9 st	
56 AcSw 730-14/14 st	156 Act 324-21/21 sl rs	231 At(SbPl) 625-12/11 he sl	363/L Act 225-18/18 st	453 Act(Sb) 225-18/18 st	615 SbAt 725-8/8 st	712 At 736-16/15 st	820 SbAt 720-7/6 st	904 SwAct 846-15/14 st	963 Sb 620-6/6 sl	1048 Sb 613-5/5 sl te	1175 Sb(Pl) 726-7/6 sl	
58 Act(SwAtSb) 732-14/14 st	158 SbAc 720-8/7 st la	238 Sb(AtPl) 725-6/6 by	365 Act 326-19/19 st	454 Sb 716-5/5 sl	624 Sb 716-5/4 sl	716 Sb 726-8/8 st	823 At(Sb) 735-18/17 st	905 SwSb 736-12/11 st	964 Sb(Ac) 725-8/8 st	1050 At 211-12/12 es	1176 Sb(Pl) 726-8/8 st	