BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

Vegetation Map
094P014

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 *Shagbark 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.

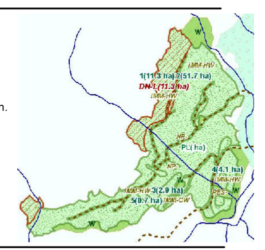
A Animal Damage	L Logging	R Site Rehabilitation
B Wildfire	M Mite Damage	T Treatment Injuries
C Cone and Seed Insects	N Non-Biological Injuries	U Damage Unknown
D Diseases	P Cone and Seedling Fungal Pathogens	V Problem Vegetation
I Insects		

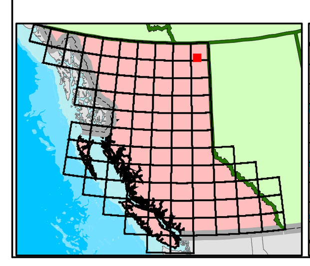
Example Opening History Details

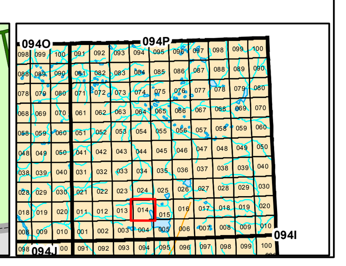
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

1 Sb(At) 412-4/3 sl he by	112 Sb 618-6/5	214 SwSb 836-12/12	313 Sb(Sw) 726-6/5 sl	471 At(Ep) 425-13/13 sl	561 At 636-19/18 sl	681 Pl 634-14/14 sl he	793 Sb 514-7/6 sl	924 Sb 723-7/6 sl he by	1010 Sb 511-5/5 hg sl	1119 At(Sb) 426-12/12 sl
2 At(Ep) 727-12/11	113 Lt(Sb) 410-7/6 sl hg	215 At(Sw) 725-11/10	317 SbSw 726-7/6 sl	479 Sb(At) 517-7/6	565 Sw(At) 836-12/11 sl	689 At 437-18/17 sl	797 Sb 516-6/6 sl	925 Sb 412-6/5 sl he by	1013 At(SwSb) 425-10/10 sl he	1125 At 426-14/13 sl
4 EpSb(Sw) 325-13/13 sl he	116 Sb 716-5/4 sl	222 At(SwPl) 536-16/15 sl	318 Sb 515-4/4 sl by	480 At(Ac) 426-14/13 sl	566 At(Sw) 421-12/12 sl	707 At 426-15/14 sl	799 Sb 412-5/4 sl he	926 Sb 311-7/6 sl he by	1017 Sb 615-5/4 sl he	1126 Sb 412-5/4 sl
5 At(Sw) 436-22/21 he sl	120 Sb 516-3/3 sl by	225 Lt(Sb)(Ep) 423-14/13 sl he by	330 Pl(Sb) 637-14/13	491 Sb(At) 626-7/6 sl he	571 SbSw 515-6/6 sl	714 Pl(At) 526-13/13 sl	804 Sb 513-4/4 sl he by	927 Sb(Lt) 414-6/6 sl by he	1018 SbSw 616-6/5 sl ht by	1132 Sb 626-7/6 sl
8 At 436-21/21 sl he	123 Sb(Lt) 715-5/5 he sl	236 AtAc(Sw) 536-17/16 sl	332 SbSw 725-6/6 sl he	493 Sb 412-6/6 sl he	572 AtSw 533-15/14 sl	717 Pl 526-13/13 sl	809 At 526-14/14 sl	928 Sb 311-6/5 sl by he	1031 hg sl	1133 Pl 427-13/12 sl
12 At(Pl) 436-21/20 sl ht	126 Sb 613-5/4 sl he by	237 Sb 412-4/3 he sl by	337 Sb(Sw) 827-8/7	495 Sb 311-6/5 sl he by	584 Sb 410-5/4 sl	722 PlAt(Sw) 527-13/13 sl	811 Sb 410-4/3 sl hg	929 Sb 412-6/5 sl he by	1035 Sb 726-6/5 sl he	1134 PlAt 427-13/12
13 Sb(Lt) 612-4/4 by sl ht	135 SbPl 617-4/4 sl	252 Sb 624-6/6 sl	349 Sb 514-5/5 sl by he	498 At 427-16/15 he	592 At(Sw) 636-17/16 sl	723 Sb(Lt) 623-8/8 sl	816 Sb 411-4/3 sl by he	930 Sb 311-6/5 sl by he	1037 SbAt 626-6/6 sl	1136 SbSwPl 726-8/8 sl
21 Ep(Sw) 326-18/17 sl ht	142 SbPl 517-6/6 sl	256 Sb(Lt) 727-8/8 sl	361 Sb 411-3/3 sl he by	500 At(Sw) 536-19/18 he sl	594 SbSw(At) 623-7/6 sl	724 At(Sw) 726-11/10 sl he	817 Sb 413-4/3 sl he by	931 Sb 412-5/4 sl by he	1043 Sb(Lt) 715-5/5 sl by ht	1137 At(Ep) 436-17/16 sl
23 SwEp 432-19/18 sl he	151 Sb 417-6/5 sl	257 Lt(Sb) 611-6/6 sl he	365 Sb 414-3/3 sl by	506 Lt(Sb) 411-8/6 hg sl	599 SbSw(Lt) 622-7/6 sl	725 Sb 514-5/5 sl he	828 At(EpSb) 424-11/10 sl	932 Sb 411-4/4 sl by he	1044 AtSw 421-13/13 sl he	1138 SwPl(Ep) 535-16/15 sl
25 AtEp 435-19/19 sl he	152 Sb 516-4/3 by sl	258 sl he	366 Sb(LtSw) 514-3/3 sl	508 At(Pl) 436-16/15 sl	600 Sb 727-7/6	726 Sb 413-4/3 sl by he	831 Sb 717-5/4 sl	933 LtSb 413-7/6 sl	1051 At(Sw) 425-13/12 sl he	1140 Sb 516-3/3 sl he by
26 Sb(Lt) 312-6/5 sl he by	156 PlAt(Lt) 427-15/14 sl	260 Sb(Lt) 312-6/5 sl he by	374 AtPl 437-17/16 sl he	509 Sb 627-7/6	602 Sb 413-3/3 sl by he	727 Sb 413-4/3 sl by he	837 Sb 511-4/4 sl	934 Sb(Lt) 414-6/6 sl by he	1060 AtSbEp 424-14/13 sl he	1143 Sb 713-4/4 sl
37 Sb 614-5/4 by sl ht	157 Sb 615-5/4 sl	264 At 436-21/21 sl he	383 Sb 727-6/6 sl	512 SwAtEp 521-11/10 sl he	604 AtPlAc 438-18/17	728 Sb(At) 414-6/5 by sl ht	840 Sb 413-5/4 sl he by	935 Sb 311-6/5 sl by he	1061 hg la	1144 SbPl(Lt) 724-8/7 sl
51 AtSwEp 425-15/14 sl	161 Sb 516-6/6 he sl	265 At 437-19/18	390 Sb 727-6/5	513 Sb 611-5/4 sl he	605 Sb 412-5/4 sl by he	730 Sb 310-6/5 sl he	843 SbSw 614-5/5 sl	936 Sb 411-4/4 hg sl by	1069 Sb 513-5/4 by sl ht	1146 Lt(Sb) 414-6/4 sl
52 At 437-20/19 he sl	162 SbSw 725-10/9 sl	267 Sb 413-4/3 sl he	394 PlSb 425-13/12 sl	514 Sb(Lt) 514-6/6 sl he	606 AtPl(Ac) 427-15/14	732 SbAt 317-10/9 sl he by	848 AtSw(Sb) 424-11/10 sl	937 Sb 514-5/5 sl by	1070 At(EpSw) 422-11/10 sl	3345408t/L Sw(Pl)At 536-18/17 sl ht by GI11
55 Sb 417-6/6 sl	166 AtSw(Lt) 424-14/13 sl he	270 SwSb 731-14/13 sl	396 PlAt 426-13/12 sl	519 SbPl(At) 416-4/3 sl	609 At 424-14/13 sl	733 Sb 413-6/5 sl by he	853 At 637-13/13 he	939 Sb(Lt) 514-6/6 sl he by	1071 Sb 717-5/5 by	4264406S/L Pl 737-13/13 GI11
62 Sb 417-5/4	173 Sb 726-6/5 sl he	271 Sb 727-7/6	399 AtPl(AcSb) 426-14/13 sl	521 Pl(Sb) 426-13/12	613 Sb 620-11/10 sl	734 AtSb 327-15/14 sl he	856 Sw 421-11/11 sl he	942 Sb 616-5/4 sl	1072 Sb 617-6/5	5406211S/L Sb(Pl) 626-6/6 sl GI11
63 AtEp 425-11/10 sl	175 SwLtAt 735-11/10 sl	273 At(SwEp) 425-13/12 sl	403 Pl(AtSb) 525-15/14 sl	522 Sw(AcSb) 735-11/11 sl	618 PlSb(At) 525-13/12 sl	735 Sb(Lt) 514-7/6 sl by he	859 Sb 612-4/4 sl by he	946 Sb 613-6/6 sl he	1084 EpAtSw 325-12/11 sl	88172446 At 437-16/15
72 At(Sw) 723-12/11 sl	178 Pl(LtSb) 721-11/10 sl by he	274 SwSb 537-15/14	406 Sb 413-6/6 sl by he	525 SbSw(At) 415-4/3 sl he	619 AtSb 522-12/11 sl he	736 EpSb(At)(Lt) 425-9/8 sl he	860 At 636-15/14 sl	947 EpAt 323-15/14 sl	1086 Sw(At) 736-12/12 sl	91164097 SwSb 835-13/12 sl GBI4
73 Sb 414-5/4 sl he by	179 At(Sw) 425-15/14 sl	276 At 437-17/16	408 Sb 415-5/4 sl by he	526 Lt 413-8/6 sl	626 Sb 726-7/6 sl	738 AtSb 425-15/14 sl he by	865 At 524-14/13 sl	950 sl by he	1089 Sw(Ep) 431-18/18 sl he	94604564 Sb(LtSw) 722-8/7 sl he GBI4
74 SbLt 722-10/9 sl	181 PlSb 626-12/12 sl	278 Sb 615-4/4 sl by he	413 SwSb 420-16/15 hg la sl	529 At 637-18/18 sl	636 Sb(Lt) 615-6/6 sl	746 Sb 511-6/6 sl	868 Sb 413-4/3 sl he by	958 Sb 410-6/5 sl he by	1091 Sb 311-6/5 sl by he	96944569 SwSb(Lt) 733-11/11 sl he GBI4
76 AtSw 735-14/13 sl	187 At(LtSw) 525-12/11 sl	282 Sb 627-6/6	415 AtPl(Sb) 426-15/14 sl	530 SbSw 516-7/6 sl	641 Sb 412-6/6 sl he by	748 At 323-12/11 sl he	875 SwAt 414-9/8 sl hg la	961 Sb 514-6/5 sl he by	1092 Sb 611-4/4 sl by he	
85 SbPl(Lt) 725-6/5 sl he	190 he la sl	283 Sb 411-3/3 sl he by	424 SwAcAt 521-14/14 he la sl	531 AtPl 426-13/13 sl	642 Sb(Lt) 516-6/6 sl	757 AtEp(Ac) 634-16/15 sl	885 Sb 726-6/5	965 Sb 510-5/4 hg sl by	1102 Sb 514-5/5 sl he	
88 Pl(Sb) 728-10/10	194 PlAt 526-13/12 sl	285 AtEp 426-14/13 sl he	426 At(Ac) 432-18/17 sl he	533 Sb 413-4/3 sl he	643 At(SbPl) 426-15/14 sl	760 At(Sw) 537-15/15 sl	890 Sb 726-6/6	980 Sb 626-6/6 sl he	1103 Sb 726-8/7 sl	
92 Sb 616-4/3 sl	199 SbAt 416-6/6 sl	287 SbSw 727-8/7	440 AtPl(Sw) 436-16/15 sl	538 Sw 521-12/12 sl	644 PlSb 425-12/11 sl	761 SwEp(Lt) 523-12/12 sl	891 SwAt 635-13/12 sl he	982 Sb 410-4/3 sl he	1106 At(Sw) 426-16/15 he	
94 Sb 413-3/3 sl by he	200 AtEp(Sb) 621-8/7 sl he by	288 Sw 835-13/12 sl	441 At 437-17/16 sl	539 At(Sw) 636-17/17 sl	645 At(SbEp) 413-9/8 sl he	767 Sb 411-5/4 sl by he	895 At(Sw) 637-15/14 sl	984 Sb(LtEp) 614-6/6 sl	1107 AtEp 435-20/19 sl he	
100 Sb 715-5/5 sl	201 Sw(LtSb) 835-11/10 sl	289 AtAc(Ep) 424-15/14 sl	450 Sb 517-5/5 sl	540 AtSw(Ac) 525-14/13 sl	649 At(Ac) 537-15/15 sl	769 At(Sb) 521-13/12 sl	897 Sb 610-4/3 sl he by	986 sl hg by	1108 Sb 716-5/4 by sl	
101 SbAt(SwPl) 712-5/5 sl he	205 Sb(Sw) 616-6/5 sl	291 AtSw(Ac) 534-15/15 sl	453 At(Ac) 536-19/18 sl	543 he sl by	659 AtAc(Sw) 536-16/15 sl	771 At 538-15/15	898 Sw(At) 635-14/13 he sl	987 Sb 311-6/5 sl by he	1109 LtSb 613-4/4 by sl ht	
103 Sb 613-3/3 sl he by	207 SwSb(Pl) 734-10/9	293 SbSw 617-6/5	456 At 438-18/17	545 Sb 616-6/6 sl	661 AtAc(Sb) 425-13/12 sl	772 Sb 616-4/4 sl	900 Sb 716-5/5 sl	988 sl la he	1110 SbLt 413-3/2 by sl ht	
104 Sb 616-6/5 sl	210 At(Sw) 725-11/10	296 Sb 414-5/4 he sl	457 At 438-18/17	549 At 534-15/15 sl	667 AtAcSw 632-18/18 hg sl	773 hg sl	909 Sb 614-6/5 sl by he	998 Sb 511-4/4 sl he	1111 Sb(Lt) 414-4/4 by sl ht	
105 Sb 617-5/4 sl	211 LtSb(Ep) 423-14/13 sl he by	299 At(Ep) 422-12/12 sl	458 At 436-19/18 sl	552 Ep 321-10/10 sl he	670 PlAt 526-15/14 sl	786 Sb 412-6/5 he by sl	921 LtSb 511-7/6 sl	1002 Sb(At) 513-6/6 by sl ht	1113 At(Sw) 436-20/20 sl	
107 Sb 618-6/5	212 Sb 413-4/4 sl he by	306 AtSbEp 422-14/13 sl	467 Sb 628-7/6	556 Sw(At) 632-11/10 sl	676 AtAc 436-21/20 sl he	789 Sb 513-4/4 sl he by	922 SbSw 626-8/8 sl	1003 At(Ep) 727-12/11	1116 Sb(At) 617-6/5 he	
109 Sb 618-6/5	213 Sb 625-6/6 sl	307 Sb 716-5/4 he	470 Sb(At)(Lt) 516-5/5 sl he	559 Sw 735-13/13 sl	678 At(Ac) 430-17/16 sl he	791 AtSb 525-14/13 sl	923 Sb(Lt) 514-6/6 sl he by	1006 Sb 410-5/4 sl he by	1118 Sb 513-5/5 sl	