Vegetation Map

093P087

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
- Sivculture 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		NATIVE HARDWOODS		EXOTICS	
C	CEDAR	D	ALDER		APPLE
Cw	Western Red Cedar	Dr	Red Alder	Ua	Apple
Y	CYPRESS	U	APPLE		ASPEN, COTTONWOOD or POPLAR
Yc	Yellow Cedar	Up	Pacific Crab Apple	Ad	*Southern Cottonwood
F	DOUGLAS FIR	A	ASPEN, COTTONWOOD or POPLAR		BIRCH
Fd	Douglas Fir	Ac	Poplar	Ee	European Birch
Fdc	Coastal Douglas Fir	Acb	Balsam Poplar	Es	Silver Birch (swamp)
Fdi	Interior Douglas Fir	Act	Black Cottonwood	Ey	*Yellow Birch
B	FIR (Balsam)	Ax	hybrid Poplars		CHERRY
Ba	Amabilis Fir	At	Trembling Aspen	Vs	Sweet Cherry
Bg	Grand Fir	R	ARBUTUS		CYPRESS
Bl	Subalpine Fir (alpine)	Ra	Arbutus	Yp	*Port Orford Cedar
H	HEMLOCK	E	BIRCH		FIR (Balsam)
Hm	Mountain Hemlock	Ea	Alaska Paper Birch	Bb	*Balsam Fir
Hw	Western Hemlock	Exp	Alaska x Paper Birch hybrid	Bp	Noble Fir
Hxm	Mountain x Western Hemlock hybrid	Ep	Paper Birch (white)	Bm	*Shasta Red Fir
J	JUNIPER	Ew	Water Birch	Bc	*White Fir
Jr	Rocky Mtn. Juniper	K	CASCARA		LARCH
Js	Seaside Juniper	Kc	Cascara	Ld	*Dahurian Larch
L	LARCH	V	CHERRY	Ls	*Siberian Larch
La	Alpine Larch	Vb	Bitter Cherry		MAPLE
Lt	Tamarack	Vv	Choke Cherry	Me	Box Elder
Lw	Western Larch	Vp	Pin Cherry	Mn	*Norway Maple
P	PINE	G	DOGWOOD	Ms	*Sycamore Maple
Pj	Jack Pine	Gp	Pacific Dogwood (western flowering)		OAK
Pf	Limber Pine	M	MAPLE	Qe	*English Oak
Pl	Lodgepole Pine	Mb	Bigleaf Maple (broadleaf)	Qw	*White Oak
Pli	Lodgepole Pine (interior)	Mv	Vine Maple		OTHER EXOTICS
Pxj	Lodgepole x Jack Pine hybrid	Q	OAK	Oa	*Incense Cedar
Py	Ponderosa Pine (yellow)	Qg	Garry Oak	Ob	*Giant Sequoia
Plc	Shore Pine (coast)	W	WILLOW	Oc	*Coast Redwood
Pw	Western White Pine	Wb	Bebb's Willow	Od	European Mountain Ash
Pa	Whitebark Pine	Wp	Pacific Willow	Oe	Siberian Elm (southern)
S	SPRUCE	Wa	Peachleaf Willow (Barclay's)	Of	Common Pear
Sb	Black Spruce	Wd	Pussy Willow (gray-leaved)	Og	Oregon Ash
Se	Engelmann Spruce	Ws	Scouler's Willow	Oh	*White Ash
Ss	Sitka Spruce	Wt	Sitka Willow (tea-leaved)	Oi	*Shagbarck Hickory
Sw	White Spruce		UNKNOWN - OTHER	Oj	Tree-of-heaven
Sx	Spruce hybrid	X	UNKNOWN	Ok	Japanese Walnut
Sxw	Engelmann x White	Xc	unknown conifer		PINE
Sxl	Sitka x White	Xh	unknown hardwood	Pm	*Monterey Pine
Sxs	Sitka x unknown hybrid	Z	OTHER (tree not on list)	Pr	*Red Pine
T	YEW	Zc	other conifer	Ps	*Sugar Pine
Tw	Western Yew	Zh	other hardwood		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-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.

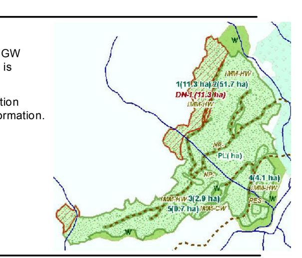
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

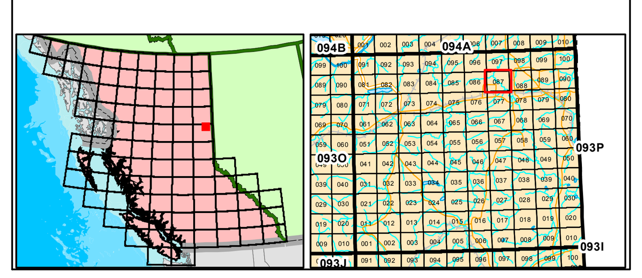
Example Opening History Details

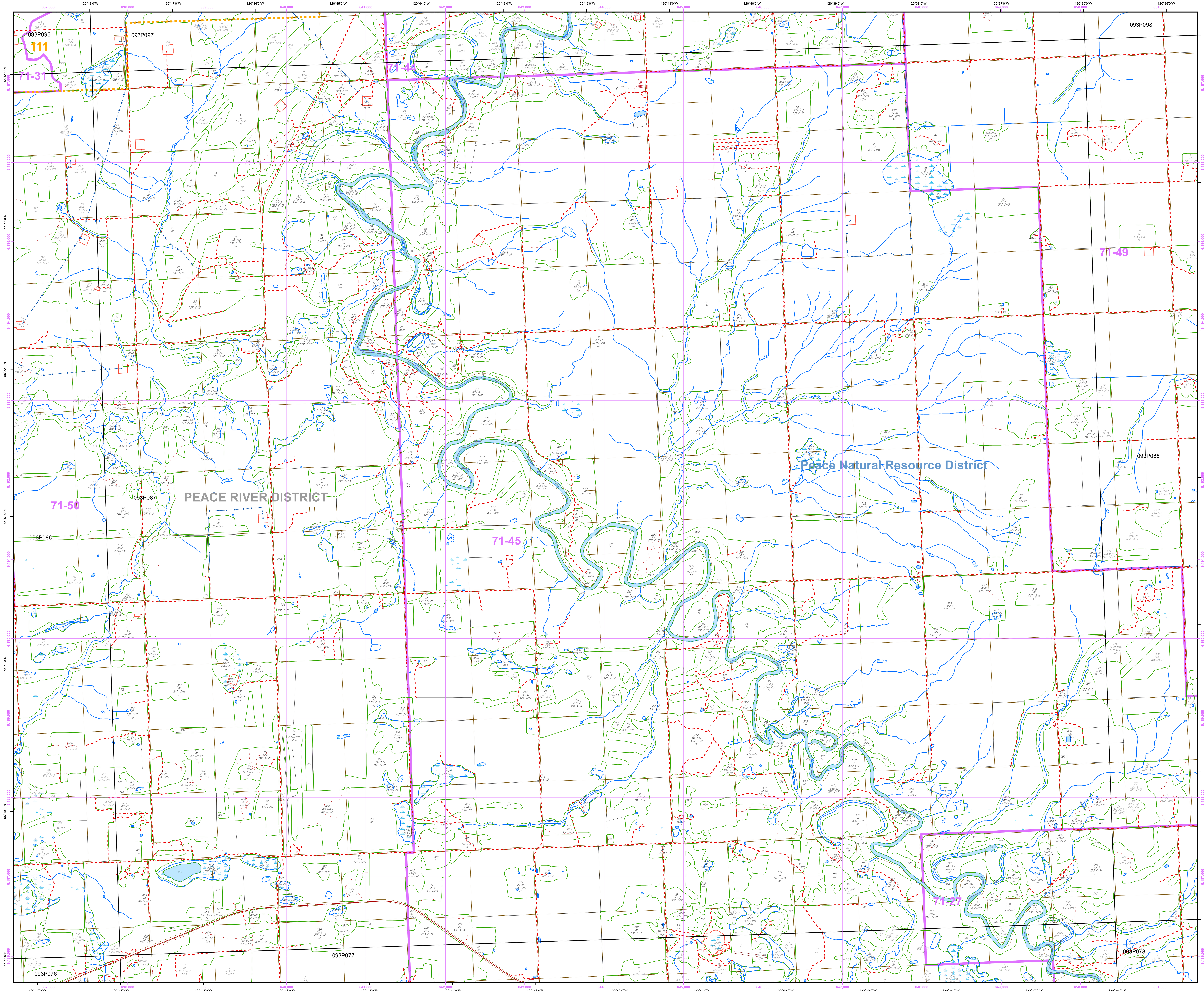
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

4 At(AcSwPl) 536-0/17	157 At(AcSw) 420-0/12 st	282 SwAt(Ac) 834-0/8 es	425 At 523-0/12 st he	536 At 428-0/15
9 At 538-0/15	161 he sl	283 AtAc 530-0/15 st	428 At 538-0/15	538 At 310-0/8 es
21 At 526-0/10 he	162 SwAtAc 320-0/16 he	287 At 527-0/12	432 At 525-0/12 st he	539 AcAt 847-0/18
28 AcAt 523-0/12 sl es	165 SwAt(At) 634-0/15 he	288 AtAcSw 526-0/12 sl	434 At 523-0/12 st	542 AcAt 847-0/18
34 SwAt 420-0/13 es	167 At(AcPl) 525-0/10 he	291 At 423-0/15 st he	438 At 320-0/14 he	543 AtAc 424-0/11 he st
39 At 317-0/10	171 At(AcSw) 420-0/9 he st	308 At(Ac) 426-0/15	442 SwAt(Ac) 637-0/12	547 At 327-0/12
43 SwAt 537-0/16	173 At(AcSw) 527-0/12	309 At(AcPl) 424-0/12 st	446 At(AcSw) 521-0/11 st la he	550 At 426-0/15
48 AtAc 427-0/12 st	189 AtAc 310-0/10 he	313 At 426-0/15	447 At 313-0/10 he	555 At 422-0/9 es he
51 At(AcSw) 524-0/12 he	196 AcSw(At) 421-0/13 st	321 At(AcSb) 524-0/12 he	453 At 310-0/8 es he	558 AcAt(Sw) 530-0/15 st he
53 he sl	197 At 425-0/9 st he	324 At 625-0/8 st	457 AtAc 427-0/15	560 At(AcSw) 524-0/12 he
55 At 428-0/15	201 AtAc 424-0/13 st	325 At 328-0/14	458 At 538-0/15	561 At(AcSw) 522-0/10 he
57 At 427-0/15	209 AtAc 527-0/11	339 At 524-0/12 es	459 At 421-0/10 he st es	563 st es he
59 At(AcPl) 537-0/15	220 At 320-0/14 st	340 AtAc 534-0/15 st	465 At 428-0/12	565 AtSwAc 537-0/15
62 At(Ac) 420-0/14 he	221 At(Ac) 425-0/12 rz	343 At 527-0/12	467 AtAc 537-0/15	566 At 538-0/15
63 AtSb(Sw) 423-0/15 sl	225 AtAc 527-0/12	350 At(AcEpSw) 425-0/13 st	469 he	
65 At 427-0/15	230 he es	351 At 317-0/10	471 At 428-0/12	
67 At 427-0/12	233 At(AcSw) 535-0/15 he	355 At 535-0/16 he	484 At(AcSb) 320-0/14 st he	
69 AtAc 537-0/16	236 he	361 At 420-0/15 he	489 At 218-12/12	
80 At(AcSb) 420-0/9 st	237 es he	363 AtAc 420-0/10 sl	503 At 534-0/15 sl	
83 At(At) 530-0/15 he	245 AtAc 523-0/12 he sl	367 he rz	504 At(Ac) 320-0/11 st he	
84 Sw(AcAt) 424-0/16 st he	246 AtAc 522-0/12 he sl	374 At(Ac) 425-0/12 sl	507 he	
94 At 420-0/9 es st he	251 At 327-0/14 st	379 At(AcSw) 520-0/12 es	508 At 327-0/14	
96 SwAcAt(Sb) 524-0/13 he	255 At 537-0/14	385 At(Ac) 534-0/15 he	509 At 324-0/14 st he	
100 At 428-0/15	257 he sl	386 AtAc 530-0/15 he sl	511 At 324-0/11 he	
104 At(Ac) 527-0/12	258 At 328-0/11	390 AtAc 537-0/17	512 AtAc 425-0/12 he	
111 At(Ac) 637-0/13	260 SwAtAc 634-0/12 st he	393 At(Ac) 426-0/13 st	514 At 327-0/11	
124 At 538-0/15	263 At(Ac) 526-0/12	395 At 428-0/13	518 AtAc 536-0/15 he	
130 At 530-0/15 he	264 At(Ac) 537-0/15	399 At(Ac) 537-0/15	521 AtAc 536-0/15 he	
132 Sw 520-0/13 he	269 AtAc 323-0/14 he	400 AtAc 420-0/13 he	523 At 421-0/12 he st	
138 AtSwAc 523-0/12 he	272 AtAc 625-0/10 he	406 At 537-0/15	524 At 310-0/10 st la he	
140 At 311-0/10 st es he	274 es	408 At 537-0/15	526 At(AcPl) 537-0/15	
141 SbAc(LtAt) 510-0/6 st he	277 SwAc 521-0/13 st he	413 At(Ac) 427-0/15	529 AtSwAc 527-0/13	
146 At(Ac) 537-0/15	278 es	417 At 423-0/12 he	532 At 428-0/14	
149 At 520-0/12 he	279 At 325-0/11 st	424 AtAc 537-0/15	533 st he	