Vegetation Map

094N079

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:

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

○12
123/L
Fd(Hw)
211-20
he,sl
GL78

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.

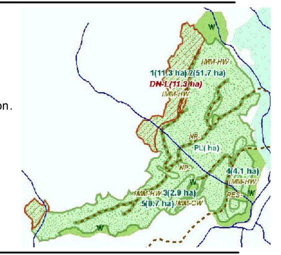
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

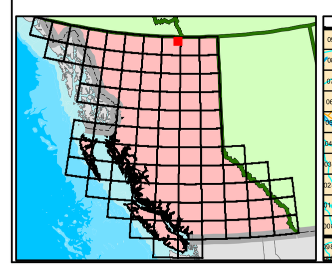
Example Opening History Details

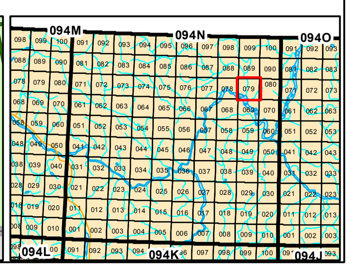
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

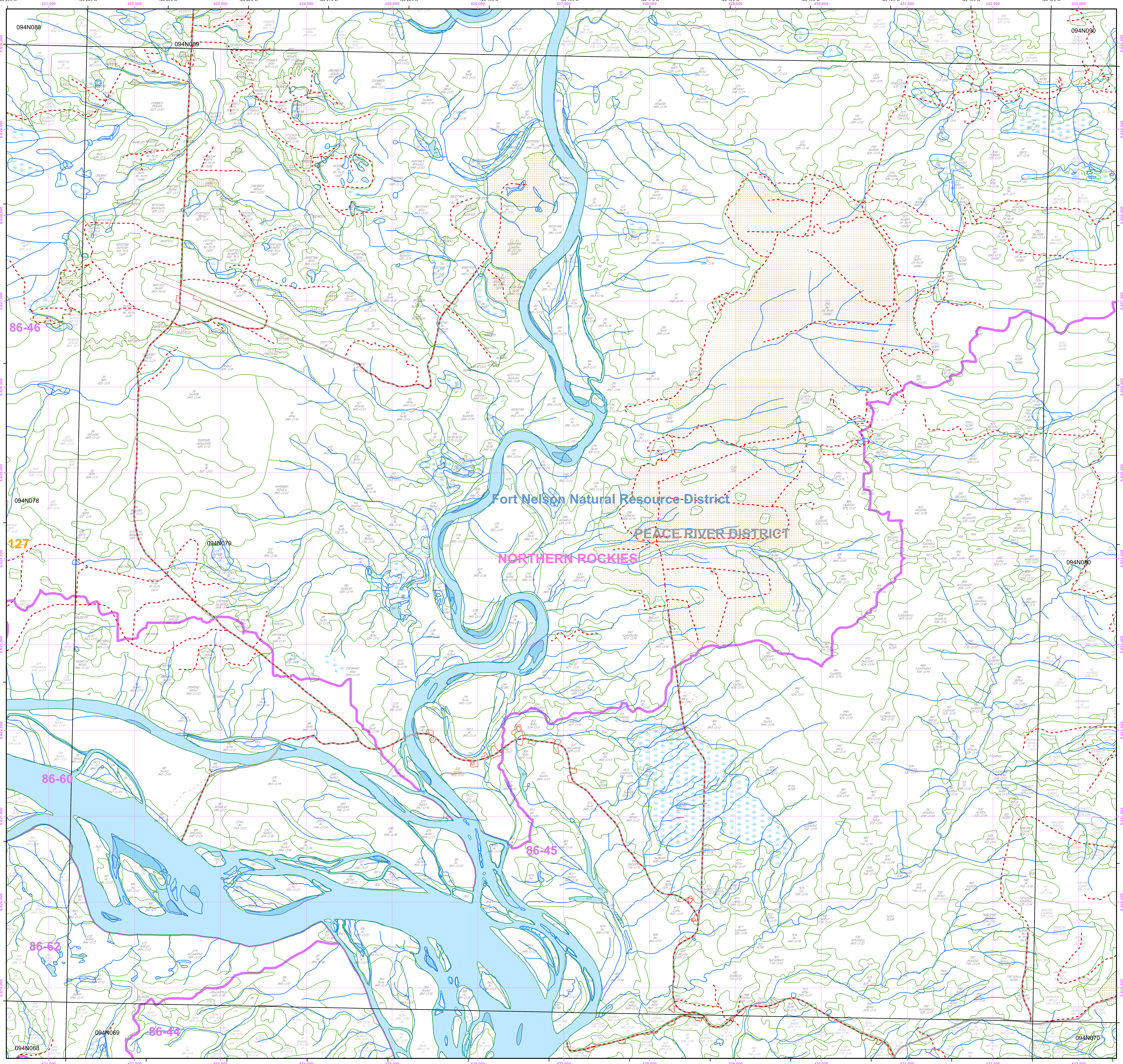
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

OPENING
OPENING LABELS
OPENING - PLANTING ACTIVITY
ACTIVITY TREATMENT UNIT
STANDARDS UNIT
SILVICULTURE FOREST COVER
WILDLIFE TREE PATCH









Overflow Labels

1 Sb(Sw) 836-0/8	278 EpAtSw 436-0/16	425 EpSwAt 525-0/11	14237787 SwPl 116-15/15 GL97	24114896 AtSwSb 846-20/19
69 AcSw 845-0/19	280 Ac 533-0/19	428 SwEpSb 833-0/10	14388499 AtSb(SwPl) 843-0/17	24565272 AtSwEp 845-0/22
70/L Ac 745-0/19	289 Sw(Ac) 843-0/16	435/L Ac 645-0/22	○3 14488848 Sw 211-16/16 NSR GL96	24817406 SwAt(Pl) 836-15/11 GL97
72 AtSw(AcEp) 844-0/23	290 Ac 324-18/18	445 SbSw 825-0/7	14636054 At(Sw) 846-0/23	○4 26048787 Sw 211-16/16 GL96
93/L Ac 846-0/23	293 Ac 324-18/18	450 Pl(Ep) 633-0/13	14918674 AtSb(SwPl) 843-0/17	○4 26918892 Sw 211-16/16 GL96
97 SwSb(Ep) 734-0/14	297 Ac 445-0/24	456 PlEpSbAt 525-0/12	○3 15728926 Sw 211-16/16 NSR GL96	○7 27177039 Sw 211-16/16 GL96
98 Sw(AcEp) 841-0/15	298 Sw(At) 846-0/13	458 Sb(Ep) 527-0/10	16449335 AtSb(SwPl) 835-0/16	○7 27357279 Sw 211-16/16 GL96
104 SwSb 734-0/12	301 Sw 845-0/15	459 Sb(Ep) 527-0/10	○5 16628008 Sw 211-16/16 GL96	27545076 AtSw 845-0/23
122 Sw 836-0/10	303 SbEpSw 523-0/9	467 At(Sw) 745-0/20	16775227 AtSwSb 846-20/19	○11 28068110 Sw 211-16/16 GL96
128 Sb(At) 737-0/11	304 SwSb 833-0/11	493 SwEp 733-0/12	○6 16876971 Sw 211-16/16 GL96	○11 28188324 Sw 211-16/16 GL96
130/L Ac 746-0/22	313 Sb 822-0/4 NP	496 AcAt 635-0/16	16925493 Sb 837-0/11	28218001 At 843-0/21
134 Ac 324-18/18	314 Sw(Sb) 733-0/11	498/L At 746-0/22	16938313 SbPl 835-0/9	28458818 SwAt 832-15/9
135 Ac 645-0/20	315 SwAt(Ep) 736-0/13	512 SwAt 635-0/14	17308816 sl	○11 28888218 Sw 211-16/16 GL96
147 Sb 723-0/5	321/L Ac 745-0/22	524 SwEp(Sb) 536-0/14	○3 17378750 Sw 211-16/16 NSR GL96	29568691 SwPl 112-15/15 GL97
168 Sw 841-0/13	322 Sw(Ac) 855-0/19	541 AtSb 735-0/17	○5 18298219 Sw 211-16/16 GL96	○7 30157350 Sw 211-16/16 GL96
177 AtAc(Sw) 743-0/23	326 Ac 843-0/20	557 G	18497672 sl	○11 30268365 Sw 211-16/16 GL96
180 Sw(Ac) 845-0/18	327 AcSw 844-0/22	559 G	○6 18557079 Sw 211-16/16 GL96	31488264 sl
203 Sw 844-0/14	331 Ac(Sw) 843-0/22	562 G	18834978 AtSwSb 846-20/19	○11 31917960 Sw 211-16/16 GL96
205 Ac 545-0/21	332 Ep 437-0/16	566 Ac 314-9/9	○3 19248924 Sw 211-16/16 NSR GL96	33778640 SbSw(At) 835-0/9
209 Ac 855-0/24	346 EpAt(Sw) 425-0/14	690 Sb(PlLt) 836-0/9	20044788 AtSw 845-0/23	○8 36077308 Sw 211-16/16 GL96
213 Ac 644-0/20	352/L Ac 843-0/22	692 Sb(PlAt) 836-0/9	○5 20188393 Sw 211-16/16 GL96	○8 36137359 Sw 211-16/16 GL96
219 Ep(Sw) 424-0/11	355 Ac 335-0/24	693 SwEp(Sb) 832-0/11	○7 20207032 Sw 211-16/16 GL96	○8 36267209 Sw 211-16/16 GL96
220 Ep(Sb) 526-0/12	360/L Ac 843-0/23	694 PlSw 211-16/16 GN82	20665441 AtSwSb 846-20/19	○12 37157800 Sw 211-16/16 GL96
222 Sb(Pl) 826-0/8	362 Ac 843-0/20	696 Ep(At) 536-0/14	20807612 SwAt(Pl) 836-15/11 GL97	38767003 sl
239 Ac 323-18/18	363 Ac 533-0/20	704 G	○5 21198072 Sw 211-16/16 GL96	○12 38977961 Sw 211-16/16 GL96
240/L Ac 844-0/20	374 Sw 635-0/13	719 SwAt 845-0/17	22177867 Sw(At) 835-0/12	39297931 SbSw(At) 835-0/11
244 Ac 846-0/24	379 Sw(At) 846-0/13	720 SwSb 835-0/12	22225526 AtSwEp 845-0/22	○8 39846888 Sw 211-16/16 GL96
250 Ac 323-18/18	384 Ep(Sw) 426-0/13	722 Sw(At) 845-0/17	22287080 SwAt(Pl) 836-15/11 GL97	39927163 Sw(At) 116-15/15 GL97
252 SwAt 843-0/13	388 PlSb(Ep) 424-0/14	723 Sw 845-0/15	○5 22597983 Sw 211-16/16 GL96	40238057 Sw 745-0/17
254 Sw(Sb) 846-0/13	394 EpAt(Sb) 424-0/11	724 Sw 845-0/15	22645689 SbPl(Lt) 834-0/12	○8 40817135 Sw 211-16/16 GL96
263 Sb 812-0/4 NP	397 Ac 535-0/21	725 Sw 845-0/15	○5 22958282 Sw 211-16/16 GL96	○8 41576927 Sw 211-16/16 GL96
266 AtSb 734-0/13	399 Ac 543-0/21	726 Sw 845-0/15	○4 23258807 Sw 211-16/16 GL96	○8 42116991 Sw 211-16/16 GL96
267 AtAc(Sb) 635-0/15	402/L Ac 645-0/22	○3 12778607 Sw 211-16/16 NSR GL96	○7 23467785 Sw 211-16/16 GL96	44528424/L Ac 844-0/21
268 At(Sb) 735-0/17	420 SbPl 426-0/9	13088535 AtSb(SwPl) 843-0/17	○7 23607020 Sw 211-16/16 GL96	77834565 AtAcEp(Sw) 745-0/22
276 Sb(Pl) 837-0/10	423 Sb(Pl) 527-0/11	○3 13608745 Sw 211-16/16 NSR GL96	23784597 SbSw 835-0/11	79104403 SwEp(Sb) 536-0/13