Vegetation Map

093M091

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:

○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.

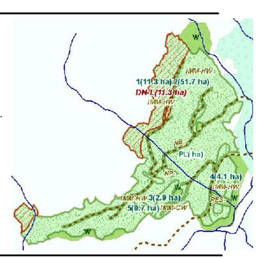
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

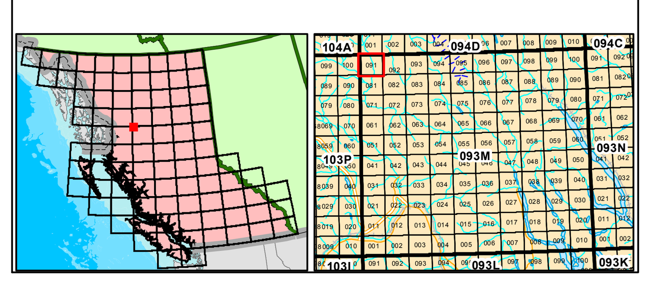
Example Opening History Details

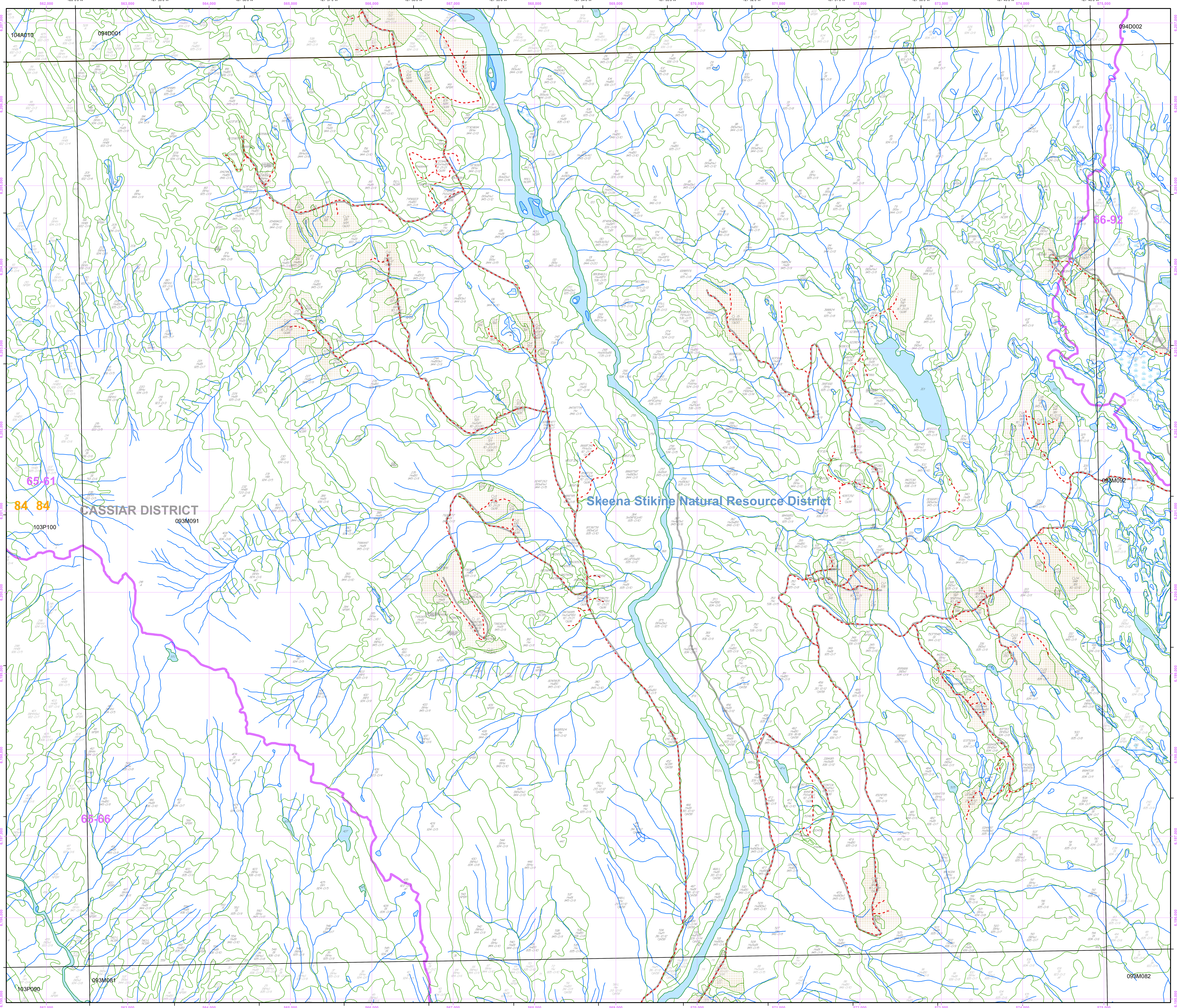
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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 Bl 934-O/5	338 NPBR	○9 617 HwBl(Sw) 944-O/9	6976862 Bl(SwHw) 945-O/9	84256501 SxHwBl(Pl) 111-23/23 GL96
4 Bl(Sw) 944-O/9	○7 346 SPlBl 110-21/21 GL99	620 HwBl(Sw) 944-O/9	8537620	84826509/L NCBR
5 HwBl) 945-O/11	356 HwBl) 945-O/10	○13 626 HwBl 845-O/13	8747657 HwBl 945-O/11	85336375 HwBl 845-O/13
8 HwBl) 935-O/9	359 NPBR	○13 627 HwBl 845-O/13	12445541 Bl 834-O/7	85337326 PlHwSx 112-21/21 GL96
10 Bl 845-O/11	368 SwAtEpBl(Pl) 835-O/8	○13 628 HwBl 845-O/13	14944697 Bl(HSw) 834-O/8	85517112 PlHwSx 112-21/21 GL96
13 Bl(SHw) 841-O/15 NP	373 HwBl) 535-O/17	○7 633 Bl(Sw) 834-O/9	14945153 BlHw 835-O/7	85636506 SxHwBl(Pl) 111-23/23 GL96
17 Bl(SwHw) 845-O/12	376 HwBlSw(Ac) 835-O/10	○7 636 SPlBl 110-21/21 GL99	19678663 NCBR	86336492 HwSxPlBl) 112-21/21 GL96
21 Bl 834-O/7	418 BlHm 947-O/11	○18 639 Bl 945-O/9	19938611 Bl(Sw) 944-O/11	88036313 Hw 836-O/10
23 Bl(SwAc) 945-O/12	434 BlHw 945-O/11	○18 640 Bl 945-O/9	20918585 Bl(Sw) 944-O/11	89537294 HwSxBlAt 112-22/22 GL96
24 BlHm 934-O/8	447 HwBl) 944-O/10	○18 642 SBl 110-12/12 GL00	20988772 NCBR	90148968/L Pl(HwAt) 323-O/17 GI11
27/L NCBR	454 HwBl(SwPl) 326-O/16 GN58	○18 644 SBl 110-12/12 GL00	21608475 HwBl 835-O/6	91128864/L HwAt(Pl) 336-O/22 GI11
28 BlHw 935-O/8	460 Bl 923-O/3 AF	○24 646 Bl(H) 834-O/11	23538541 Bl 835-O/6	
36 BlHw 934-O/6	461 Bl 933-O/4	○24 647 BlSw 944-O/17	62099561 HwBl) 846-O/13	
42 HwPl 323-O/14	465/L HwBl) 833-O/10 GN58	○23 650 Bl(Sw) 835-O/9	62339655 BlHw 944-O/10	
94 HwBl) 846-O/10	470/L HwBl 314-12/12 GN58	○27 655 HwBl(Sw) 845-O/13	62379736 HwBl) 936-O/9	
120 PlHwAt 324-O/17	515 Bl(Hw) 834-O/7	634978 HwBl 944-O/10	63199566 HwBl) 936-O/9	
147 Ac(Sw) 944-O/15	551 HwBl 833-O/7 NP	644472 Pl(SxHw) 112-21/21 GL99	63339600 NPBR	
153 HwBl 945-O/11	559 HwBl) 845-O/13	914496 SxBl(HwPl) 112-24/24 GL99	64289662 HwBl) 936-O/9	
155 Bl(Hw) 944-O/12	○4 573 HwPlSs 110-21/21 GL97	1534636 SxPl(ActHwAt) 111-23/23 GL99	74096265 NPBR	
167 Hw 845-O/12	○8 574 PlSs(Hw) 110-20/20 GL96	1714411 SxPl(ActHwAt) 111-23/23 GL99	75489447 BlSxPl 947-20/10	
○21 168 HwBl) 944-O/11	○4 580 HwPlSs 110-21/21 GL97	2004512 SxPl(ActHwAt) 111-23/23 GL99	○12 75646194 HwBl 947-O/12	
170 Hw 936-O/9	○4 581 HwSsPl 110-21/21 GL97	2234790 HwSxBl 937-20/8	○12 76126589	
178 NPBR	○4 582 HwSsPl 110-21/21 GL97	2757018 HwBl(Sw) 836-O/11	76166047 NPBR	
206 Bl 932-O/6 NP	○4 583 HwPlSs 110-21/21 GL97	3497083 HwBl(Sw) 836-O/11	76786084 HwBl 935-O/9	
212 Bl 933-O/6	○4 584 HwSsPl 110-21/21 GL97	4347203 HwBl) 936-O/7	○12 77126320 HwBl 947-O/12	
214 Bl 936-O/6	○8 588 Bl(Sw) 835-O/9	4717304 HwBl) 936-O/7	○12 77475952	
224 HwBl) 944-O/9	○8 589 Bl(H) 834-O/11	4957126 HwBl(Sw) 836-O/11	78089364 SxBl 112-21/21 GL99	
237 NPBR	○8 590 Bl(H) 834-O/11	5438005 SxBl 949-20/8	○12 78606210	
255 EpSw(AtBl) 434-O/18	○16 593 Bl(Sw) 944-O/17	5647013 BlHw 945-O/15	78879294 SxBl 112-21/21 GL99	
256 AtEpSwBl) 426-O/15	○16 594 Bl(Sw) 944-O/17	5847807 SxBlPl(BdHw) 111-24/24 GL99	○12 78921997 HwBl 947-O/12	
273 HwPl(At) 524-O/10	○21 610 Hw 845-O/12	5878217 SxBlPl(Hw) 112-23/23 GL99	82417648 NCBR	
285 HwPl(AtBl) 527-O/9	○21 611 HwBl) 944-O/11	6228041 SxBlPl(Hw) 112-23/23 GL99	83266469 SxHwBl(Pl) 111-23/23 GL96	
312 BlSw 944-O/13	○21 612 Hw 845-O/12	6238117 SxBl 949-20/8	83686623 HwBl 845-O/13	
328 Bl 844-O/11	○21 613 HwBl) 945-O/10	6518219 SxBlPl(BdHw) 111-24/24 GL99	84056435 HwSxPlBl) 112-21/21 GL96	
329 Bl(Sw) 945-O/12	○9 616 HwBl(Sw) 944-O/9	6877866 SxBlPl(BdHw) 111-24/24 GL99	84126578 HwSxPlBl) 112-21/21 GL96	