Vegetation Map

103I060

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

○12	1 Silviculture symbol and Opening Number
123/L	2 Polygon Number and multi-layer stand indicator (L)
Fd(Hw)	3 Species Composition ex: the most important layer is described as Fd (Dougls Fir) and Hw (Western Hemlock).
211-20	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
he sl	5 Vegetated Density Class (or Non-Forest/Productive Descriptor) ex: a herb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
GL78	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)	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.

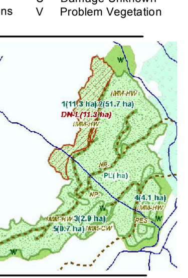
A Animal Damage	L Logging	R Site Rehabilitation
B Wildfire	M Mite Damage	T Treatment Injuries
C Cone and Seed Insects	N Non-Biological Injuries	U Damage Unknown
D Diseases	P Cone and Seedling Fungal Pathogens	V Problem Vegetation
I Insects		

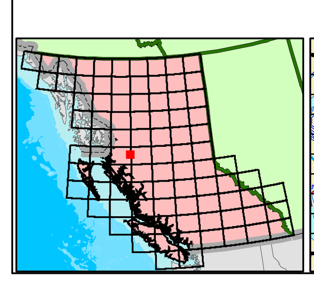
Example Opening History Details

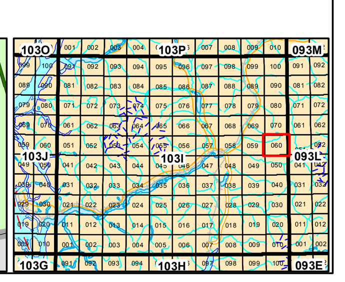
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

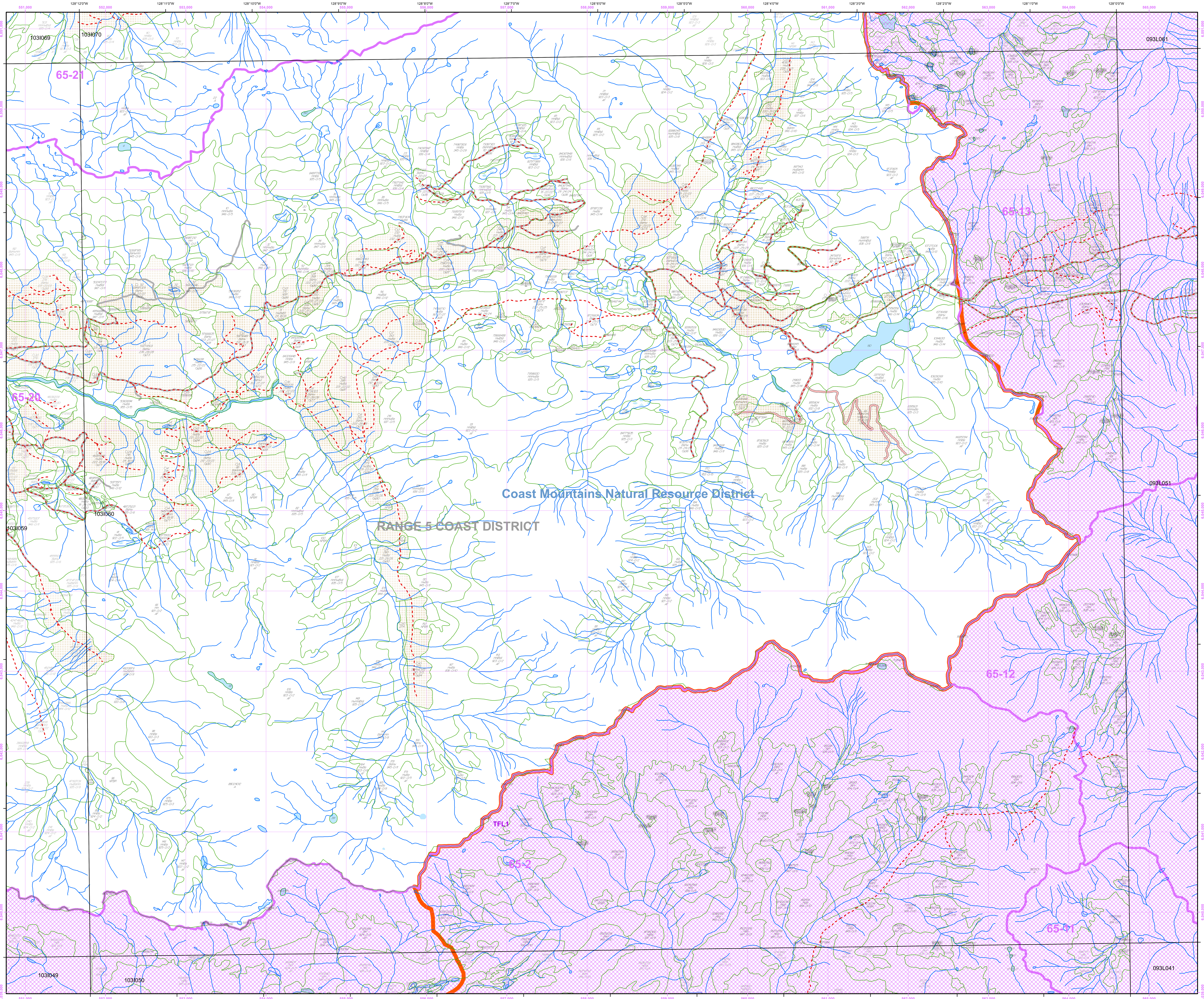
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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









Overflow Labels

1 HmBa 934-O/3	8058322 Bl 924-O/2 NP	16505951	50896842 HwBa(S) 946-O/11	84056589 BaHw 223-25/25 GL79
6 Hm 922-O/2	8358312	17865747	○52 53861850 HwBa 948-O/13	○34 84147445 NSR GL96
○32 13 HwBa 225-18/18 GL73	8472887 NPBR	18305904	○15 54726100 HwBa 221-21/21 GL87	○21 84556420 BaHw 222-23/23 GL79
45 HwBa 945-O/14	8662999 NPBR	18368437 NPBR	55632305	84957547 BaHw(Sx) 111-22/22 GL96
○4 71 HwBa(Hm) 210-14/14 GL77	9021930 A	18395001	○15 55816588 HwBa 221-21/21 GL87	○37 85197134 HwBa 210-16/16 GL91
91 HwBa 946-O/11	9553827	18878355 HBa 827-O/5	○35 56586712 HwCw(Ba)(S) 210-12/12 GL92	86793718
123 HmBa 945-O/7	10098142 NPBR	19168408 HBa 935-O/9	57156797 HwBa(Cw) 223-27/27 GL91	88866499 BaHw 223-25/25 GL79
○4 266 BaHw 214-15/15 GL77	10447504	○0 19336897 HwBa(S) 220-23/23	57202286	87646744 HmHwBa 935-O/5
○10 274 HwBa(Cw) 211-5/5 GL84	11126702 U	19457663 R	○2 58026119 BaHw 232-31/31 GL73	87992885 R
○11 280 BaHw 221-23/23 GL89	11188370 NPBR	19515515	58752283	88546718 BaHw 223-25/25 GL79
387 BaHwHm 945-O/9	11228047 NPBR	19564680	60462403	88712916 NPBR
○32 388 HwBa 225-18/18 GL73	11389120 BlH 835-O/5	○0 21126801 HwBa(S) 220-23/23	61262691	○21 89606516 BaHw 222-23/23 GL79
27239 BaHw(Hm) 111-24/24 GL97	11508459 NPBR	21734190 NPBR	62616502 HmBa 945-O/9	○21 91066401 BaHw 222-23/23 GL79
76818 BaHw(HmSx) 112-16/16 GL97	11718390 Bl 923-O/2 NP	21878333 NPBR	64186315 BaHw 214-25/25 GL91	91496566 BaHw 223-25/25 GL79
122660 NPBR	11727694	22206095 R	66312064 HBl 936-O/9	92102593 HBa 932-O/7 NP
287256 BaHm 111-22/22 GL97	11824170	22441920 HBl 923-O/6 AF	○36 73026664 NSR GL91	92616396 BaHw 223-25/25 GL79
403076 NPBR	12007943	22535641 NPBR	74957579 BaHw 111-22/22 GL96	93012805 NPBR
○47 435639 BaHw(Hm) 111-22/22 GL01	12037242	22874390 BlH 835-O/6	75017922 BaHw 111-22/22 GL96	93046425 HwBa 943-O/14
713036 R	12336781	2295913 H 924-O/7	76222053 HBl 936-O/9	93582914 NPBR
○55 807026 GL10	12477103	23044171 NPBR	76412972	94727720 NPBR
○45 866591 NSR GL98	12548179 NPBR	23176842 H 956-O/14	76676981 HwBa 116-27/27 GL91	94933246 BlH 935-O/4
1071984 HBa(S) 937-O/10	12646461	23523797 HBl 933-O/7 AF	78443261	○19 95587420 BaHw(Hm) 222-23/23 GL79
1507357 BaHw(Hm) 111-24/24 GL97	13067928	23626288 NPBR	○36 79137017 BaHw 210-15/15 GL73	○41 95926843 BaHw 211-23/23 GL94
1637369 BaHm 111-22/22 GL97	13257841	23685823 A	○21 79166702 BaHw 222-23/23 GL79	96862723 H 839-O/9
1783146 NPBR	13446921 NPBR	24055805 HBa 934-O/8	79227815 BaHw(Hm) 112-12/12 GL96	97438069 HwBa 945-O/12
○55 2756682 GL10	13458306 NPBR	24068126 HBa 947-O/14	81136935	97975841 HwBa 945-O/14
2966648 NPBR	14196713 U	24076779 HBa 957-O/14	○21 81328629 BaHw 222-23/23 GL79	○55 98736991 GL10
5094000	14378457 NPBR	24456882 H 956-O/18	○17 81437412 HwBa 221-22/22 GL76	98971979 HBa 947-O/13
5822623 HBa 947-O/11	14506396 HBa 947-O/14	48265486 BaHw 111-22/22 GL00	81943481	99154086
6583130 Bl 822-O/4 AF	14636220	48512530	○21 82986440 BaHw 222-23/23 GL79	99216824 BaHw(Hm) 113-12/12 GL97
6596685 HwBa 946-O/14	15456588 BaH 834-O/9	48706987 HwBa 946-O/12	83196707 BaHw 223-25/25 GL79	99522904 NPBR
6928457	15877577 R	49055436 BaHw 111-22/22 GL00	83313544	○47 9985594 BaHw(Hm) 111-22/22 GL01
7813919	16396744 NPBR	49815409 BaHw 111-22/22 GL00	83392786 NPBR	
8177085 NPBR	16436383 HBa 947-O/13	49992141 BlH 834-O/6	○21 83536629 BaHw 222-23/23 GL79	