Vegetation Map

103H034

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
- Silviculture 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   bb/rk - 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

Code	Name
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

Code	Name
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

Code	Name
X	UNKNOWN
Xc	unknown conifer
Xh	unknown hardwood
Z	OTHER (tree not on list)
Zc	other conifer
Zh	other hardwood

EXOTICS

Code	Name
	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 are not 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 graminoids > 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	rn	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

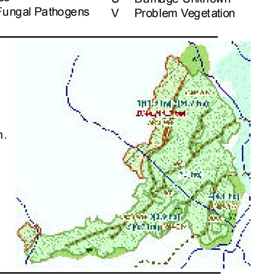
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

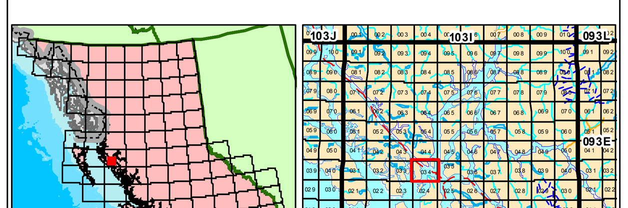
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

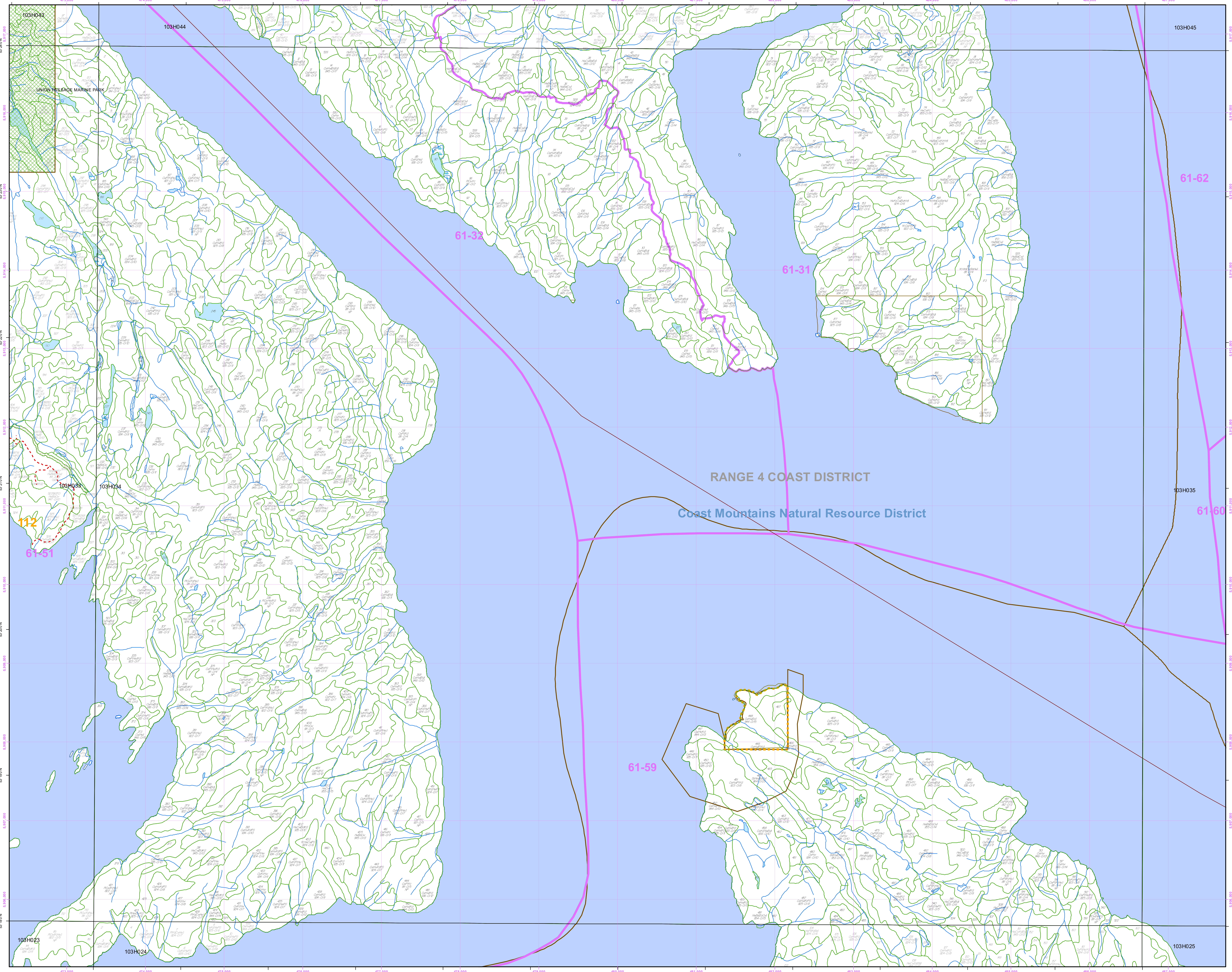
Example Opening History Details

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 HwBaCwSs 946-O/12	150 HwBa(CwYc) 933-O/9	315 CwHw(Yc) 935-O/9	482 HwCwBa(Yc) 945-O/12
2 CwHw(Yc) 936-O/11	152 HwBaCw(Yc) 935-O/9	320 YcCwPl 911-O/4 NP	483 HwPl(YcBa) 824-O/6
3 PlCwYc(Hw) 811-O NP	153 YcHmCwBa(Hw) 924-O/7	323 HwCwYc(Pl) 924-O/7	485 HwCwBa 945-O/13
5 CwPlYc(Hw) 812-O/4	171 Hw(CwBa) 325-18/18	331 CwPlYc(Hw) 923-O/6	487 HwCwSs(Ba) 955-O/14
9 CwHw(Yc) 824-O/8	173 HwYcCwBa 924-O/5	340 CwHwYc(Pl) 911-O/4 NP	490 CwHwPl(Yc) 923-O/6
17 HwCwBa 945-O/12	176 DrHwCw 332-O/19	342 CwPlYc(Hw) 911-O/4 NP	491 PlHwYcCw 821-O/6 NP
20 CwYc(HwPl) 811-O/4 NP	184 CwHw 945-O/15	344 CwPlYcHw 921-O/5 NP	503 CwHw(Yc) 824-O/8
21 CwYc(HwPl) 931-O/9	192 CwHw 932-O/11	346 CwHwYc(Pl) 924-O/7	504 PlHwYcCw 821-O/6 NP
23 Cw(HwBaYc) 925-O/8	194 CwPlYc(Hw) 925-O/8	349 CwHwYc(Pl) 924-O/7	505 CwHwPl(Yc) 825-O/6
25 YcHwBaCw 824-O/7	199 HwCwBa(Yc) 935-O/9	352 CwHwYcPl 911-O/4 NP	507 HwCwYcBa 935-O/9
39 BaHw(YcCw) 935-O/5	200 HwBaSsCw 956-O/15	354 CwHwBa 935-O/11	519 CwPl(HwYc) 834-O/9
41 HwCwBa(Yc) 825-O/6	202 CwHwBa 945-O/14	359 CwHwYcPl 911-O/4 NP	521 CwPl(HwYc) 834-O/9
44 DrHwCwSs 337-O/19	206 CwYc(HwPl) 821-O/8 NP	360 CwHwYcPl 923-O/7	522 CwHwYcBa 935-O/11
47 DrHwCwSs 337-O/19	214 HwCwBa 946-O/14	361 CwHwYcPl 923-O/6	524 CwHwBa 936-O/11
49 CwHwSsBa 946-O/13	223 CwHwYcPl 924-O/7	369 CwHw 935-O/12	525 CwYc(HwPl) 835-O/10
50 CwHwSsBa 945-O/14	224 CwPlYc(Hw) 822-O/9	372 CwHw(Yc) 936-O/12	526 CwHwBa(Yc) 946-O/12
52 CwYc(HwPl) 811-O/4 NP	229 CwPl(HwYc) 934-O/10	376 CwHwBa(Yc) 835-O/9	531 CwHwYcBa 824-O/6
54 CwYc(HwPl) 825-O/8	230 CwHw 936-O/12	377 CwYcPl(Hw) 811-O/4 NP	533 HwBa(Cw) 955-O/18
55 CwHwYcBa 935-O/10	231 CwPl(YcHw) 921-O/5 NP	387 Dr 428-O/16	534 YcHmCwBa(Hw) 912-O/5 AF
58 CwYc(HwPl) 822-O/6	232 CwHwPl(Yc) 934-O/9	382 YcPlCw(Hw) 824-O/6	542 CwHw(YcBa) 936-O/11
63 CwYc(HwPl) 933-O/9	249 HwBaSs(Cw) 945-O/14	407 CwYcPl(Hw) 921-O/6 NP	
67 CwYcPl(Hw) 823-O/8	263 HwBa(YcCw) 935-O/10	414 CwPlYc(Hw) 811-O/5 NP	
71 CwYc(HwPl) 821-O/7	266 CwHwYcPl 822-O/6	420 CwYc(HwPl) 924-O/7	
77 CwYc(HwPl) 811-O/5 NP	268 YcHw(PlCw) 822-O/5	422 CwHwYcPl 945-O/12	
78 CwYcPl(Hw) 822-O/8	269 HwBa 945-O/11	424 CwHwYcPl 945-O/12	
79 Cw(YcHwPl) 834-O/9	276 YcHwCwPl 811-O/3 NP	425 HwCwBa(Yc) 936-O/10	
82 CwHwBa 936-O/12	278 YcHw(PlCw) 822-O/6	430 CwYc(HwPl) 825-O/6	
86 CwHw 935-O/11	284 CwYcHw 935-O/10	436 HwCwSsBa 945-O/12	
92 CwYc(PlHw) 924-O/7	298 CwYc(PlHw) 823-O/7	440 CwYcHwBa 925-O/7	
93 CwHwBa(Yc) 946-O/13	299 Cw(Hw) 935-O/10	450 CwPl(YcHw) 812-O/3 NP	
100 CwHwBa(Yc) 936-O/12	302 CwHwBa(Yc) 926-O/8	461 CwYc(HwPl) 923-O/6	
115 DrHwCwSs 337-O/19	303 CwHwBa(Yc) 926-O/8	462 CwPl(YcHw) 812-O/3 NP	
122 DrHwCwSs 337-O/19	310 CwPlHwYc 923-O/7	465 CwHw 944-O/14	
138 Cw(HwYc) 934-O/10	311 PlCwYcHw 912-O/2 NP	467 CwPl(YcHw) 812-O/2 NP	
147 YcHmCwBaHw 924-O/6	313 PlCwYcHw 911-O/3 NP	479 HwBaCwSs 954-O/15	