Vegetation Map

103H048

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:

Q12
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

Q12 - opening number valid for BCGS mapsheet   bork - 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)
1	1-20	1	0.1 - 10.4	0	0 - 5
2	21-40	2	10.5 - 19.4	1	6 - 15
3	41-60	3	19.5 - 28.4	2	16 - 25
4	61-80	4	28.5 - 37.4	3	26 - 35
5	81-100	5	37.5 - 46.4	4	36 - 45
6	101-120	6	46.5 - 55.4	5	46 - 55
7	121-140	7	55.5 - 64.4	6	56 - 65
8	141-250	8	65.5 +	7	66 - 75
9	251 +			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 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
be	BEACH	la	LAKE	mz	RUBBLY MINE SPOILS
bl	BLOCKFIELD	lb	LAVA BED	oc	OCEAN
br	BEDROCK	ll	LANDING	ot	OTHER
bu	BURNED AREA	ls	POND or LAKE SEDIMENTS	pn	SNOW COVER
cb	CUTBANK	mi	OPEN PIT MINE	re	RESERVOIR
es	EXPOSED SOILS	mn	MORAINE	ri	RIVER / STREAM
gl	GLACIER				

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	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

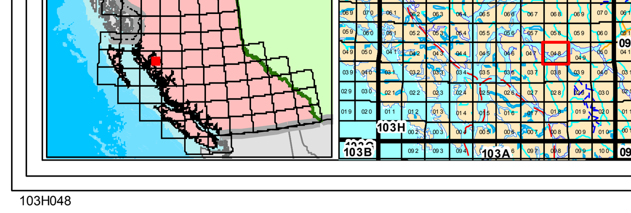
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

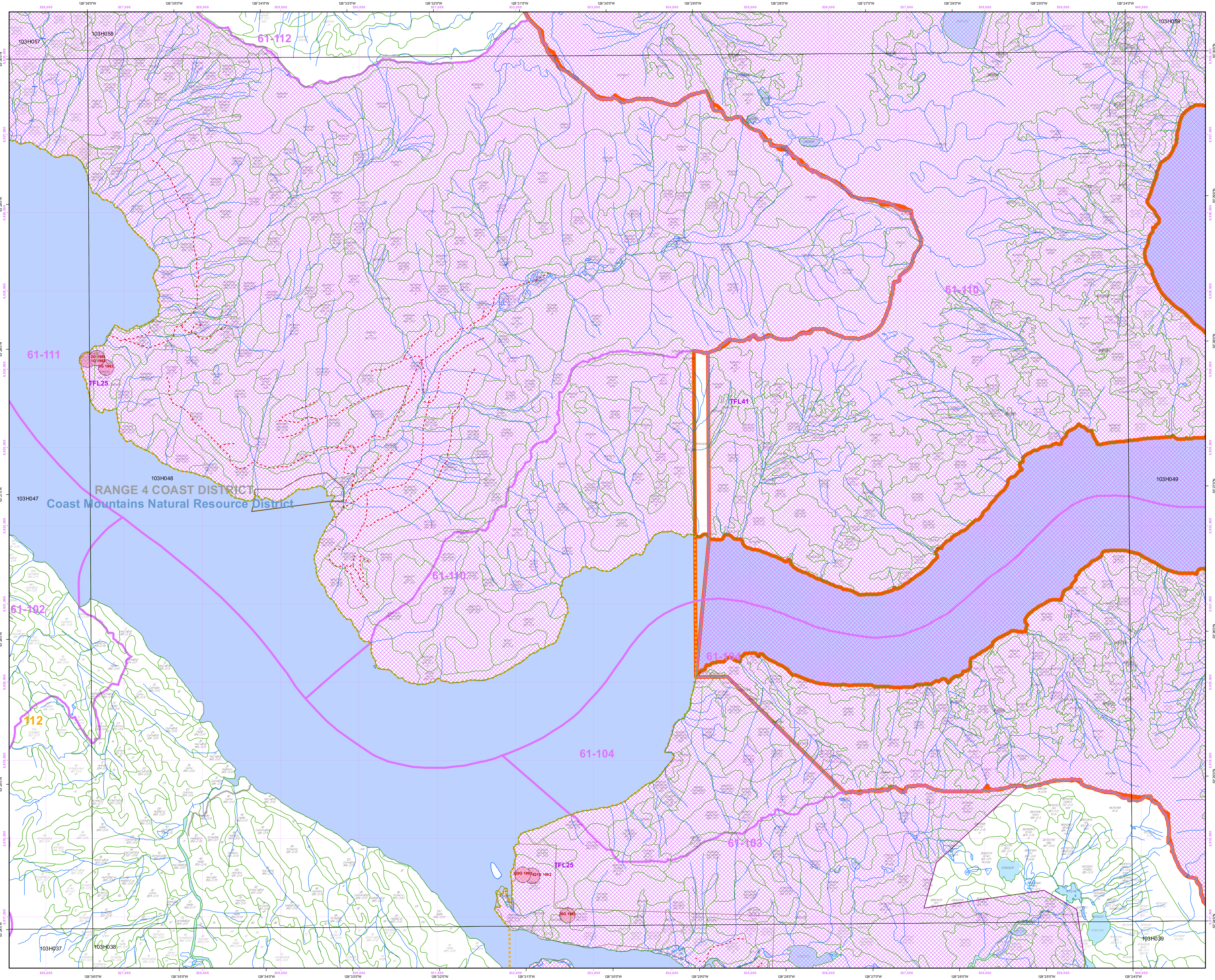
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

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

5 CwHw(Ba) 935-O/12	109 SsHw(CwBa) 841-O/14	30581879 HSs(Cw) 935-O/10	48336335 NPBR
10 HwBa(YcHmCw) 935-O/8	22220180 Dr 438-O/23	31275614 gl	48358817 HCw(Ba) 946-O/10
11 YcCwHw 821-O/6 NP	34200166 HwDr(SsBa) 437-O/21	31296786 A	48395393 HBa(Cw) 847-O/14
12 CwHw(Ba) 931-O/11 NP	9950468 br	31803119 DrSs(CwH) 636-O/22	4841819 HBa(Cw) 936-O/9
14 HwBa(Cw) 845-O/13	10161140 Hw(BaSsDr) 237-38/38 GL87	33633106 CwH(Pl) 636-O/12	48425720 HCw(Ss) 935-O/10
15 CwHwYc 832-O/10	11950354 CwHw(Dr) 937-O/11	33384085 HYc(Ss(Cw) 822-O/9	48588046 HCw 837-O/8
16 YcHm(CwHw) 821-O/6 NP	12721496 HwSsDr 232-37/37 GL87	35271857 R	48606222 HCw 732-O/11
21 CwYcHw 823-O/7	13511500 sl	36591708 NPBR	70404635 Hw(BaSs) 647-O/21
22 HwCwYc(Ba) 835-O/10	14186724 H 812-O/2 AF	37180039 HSs(Cw) 835-O/10	71994511 SsHw 856-O/17
24 HwBa(Cw) 835-O/11	14272000 HwSs(CwBa) 946-O/12	37272275 HSs(Cw) 844-O/12	72226388 HwBaSs(CwDr) 124-42/42 GL95
25 HwBa 845-O/14	15093651 sl br	37443674 HCw(PlBa) 726-O/9	72615335 HwBaSs(Cw) 115-26/26 sl he G
32 CwHwBa(Yc) 925-O/8	15304492 he br sl	37863992 Ss(H) 835-O/9	75556040 HwBaSs(CwDr) 338-O/24 G
42 HwCw(Ba) 945-O/14	15382163 HCw 943-O/13	38681594 R	75930912 sl br
46 YcHw(CwBa) 933-O/11	16102174 HCwBa 946-O/11	39413985 R	76314809 HwBaSs(CwDr) 338-O/24 G
55 YcHwBa 933-O/12	16120306 Hw(CwBa) 213-O/13 sl br G	39686747 A	76506077 SsBa(CwHw) 856-O/17
60 HwCwYc(Ba) 836-O/10	17046667 H 812-O/2 AF	40145632 H 812-O/3 AF	79894799 HwBaSs(CwDr) 338-O/24 G
64 HwBa 945-O/11	17094148 HBa(SsCw) 847-O/15	40291971 CwH(Ss) 835-O/12	81286512 YcH(Ba) 823-O/8 sl
66 BaHw(Ss) 846-O/12	17142093 Hw(CwBaSs) 437-O/17	40324352 HBa 635-O/13	82561933 Hm 920-O/2 sl he
67 CwHw(SsBa) 944-O/15	17584075 HCwDr 425-O/9	41840249 HwBa 835-O/10 sl	92065189 YcH 525-O/9 sl
69 HwCwYc(Ba) 835-O/12	18303273 Dr(H) 303-O/16	41982149 HCw) 613-O/5	92285418 HmBaYc) 413-O/4 sl
71 HwSsBa 946-O/15	18812005 HCw 812-O/4	42551849 H 812-O/2 AF	93750545 be he
74 HwBa 945-O/14	18881978 HCwBa 946-O/11	44902175 HYc) 823-O/5	
76 HwCwBa 944-O/15	19146776 HB) 823-O/7	45561800 R	
80 YcHw(BaCw) 925-O/8	19571612 A	45655695 HYcBa 514-O/4	
85 HwBa(Cw) 945-O/14	20356669 R	46030263 HBaYc) 924-O/6 sl	
88 YcHwCw 921-O/6 NP	20731917 HCw(SsBa) 947-O/12	46424866 R	
90 YcHwCw 922-O/8 NP	20801806 HCw 936-O/10	46454460 R	
91 HwCw(SsBa) 942-O/11	21423842/L NCBR	46572208 R	
92 HwYcCw(Ba) 844-O/12	21733809 HSs(CwB) 746-O/16	47156729 HBa(Cw) 946-O/11	
94 SsHw(Ba) 931-O/6 NP	21743761 NCBR	47162109 R	
97 HwBa(YcCw) 835-O/10	21850313 HwCwBa(Ss) 936-O/10	47231877 A	
99 HwBa 834-O/12	23711569 YcH 833-O/10	47384159 HSsPl(Cw) 735-O/12	
101 HwCwBa(Ss) 836-O/12	23993030 H 731-O/11	47706077 HBa 936-O/9	
102 HwBa 845-O/15	24012398 HB 723-O/7	47786181 HB 922-O/6	
104 HwBaCw(Ss) 956-O/15	29043430 NCBR	48104860 CwH(Ss) 836-O/14	