Vegetation Map

103G097

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
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

(Example label: 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 available 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 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; 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; rn 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

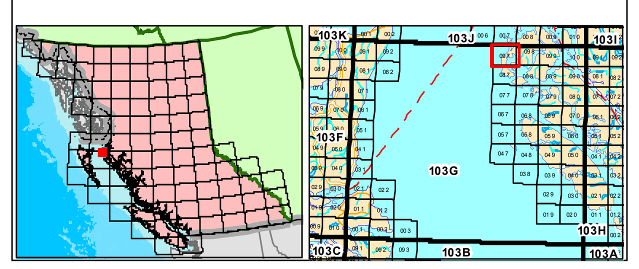
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

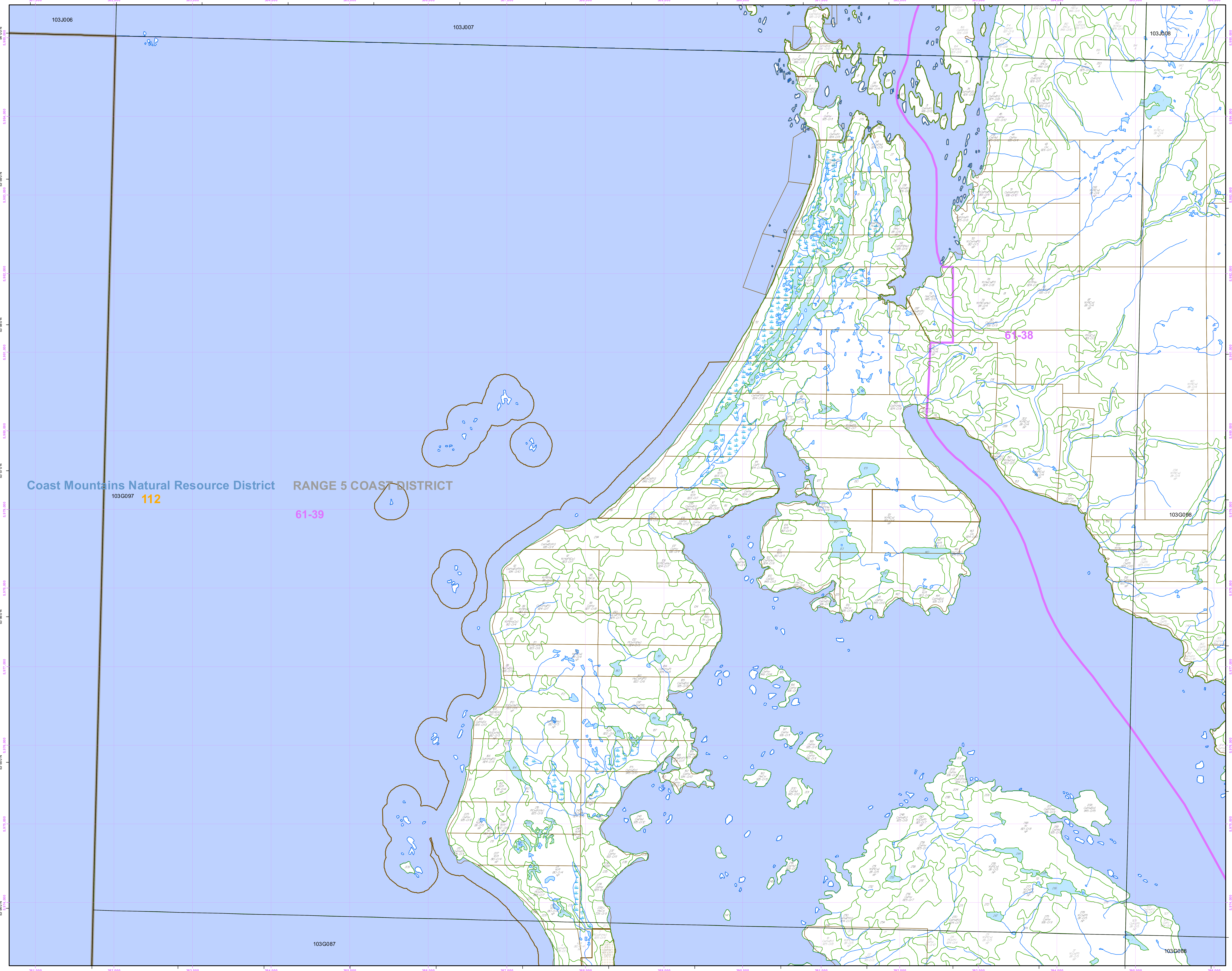
A Animal Damage; B Wildfire; C Cone and Seed Insects; D Diseases; I Insects; L Logging; M Mite Damage; N Non-Biological Injuries; P Cone and Seedling Fungal Pathogens; R Site Rehabilitation; T Treatment Injuries; U Damage Unknown; V Problem Vegetation

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

4 CwHw(Ba) 935-0/12	115 HwCwPl) 836-0/10	239 Cw(Hw) 945-0/13
5 CwHw 836-0/10	116 CwHw 831-0/12	244 Cw(Hw) 936-0/9
6 CwHw 936-0/12	126 CwHwPl(Yc) 825-0/9	245 Cw(Hw) 935-0/9
7 CwHw 936-0/10	127 CwPl(Yc) 825-0/9	247 Cw 936-0/9
8 CwHw 936-0/10	130 HwYcPl(Cw) 825-0/6	249 YcPl(Cw) 811-0/5 NP
10 CwHw 936-0/12	134 YcHwPl(Cw) 824-0/7	252 CwHwPl(Yc) 825-0/7
15 YcPl(Cw) 824-0/9	135 CwHwPl(Yc) 824-0/8	254 CwHwYc(Pl) 824-0/6
18 YcPl(HwCw) 711-0/5 NP	138 HwCw 825-0/7	257 Cw(PlYcHw) 811-0/3 NP
19 PlCw(Hw) 625-0/9	142 HwCw 835-0/8	258 YcCw(PlHw) 812-0/4 NP
26 Yc(HwCw) 712-0/3 NP	145 CwYc(PlHw) 823-0/7	271 CwYc(Hw) 824-0/6
27 YcHw(PlCw) 811-0/4 NP	151 CwHwYc 835-0/11	272 YcCw(HwPl) 824-0/6
29 CwHw 937-0/12	153 YcCw(HwPl) 824-0/9	274 CwHw 825-0/7
30 Cw(Hw) 937-0/9	156 YcPl 814-0/5	276 YcCw(Pl) 824-0/6
32 CwHwYc 936-0/10	159 YcPl(Cw) 811-0/4 NP	277 CwHw(Yc) 935-0/9
33 Cw(Hw) 825-0/8	160 CwYcHw 823-0/7	279 CwHw 935-0/11
35 CwPl(HwYc) 823-0/6	161 HwCwSsPl) 835-0/8	280 Cw(Hw) 936-0/11
36 HwCwSs(Yc) 935-0/7	165 Yc 811-0/4 NP	284 CwYcHwPl 824-0/8
38 CwHw(Ss) 946-0/13	172 YcPl(HwCw) 824-0/6	285 CwYcHwPl) 724-0/8
46 Cw 936-0/9	187 HwCwYcPl) 824-0/6	286 CwHw 936-0/10
49 YcHwCwPl) 824-0/7	190 Hw(Cw) 837-0/10	288 Yc(Hw) 821-0/6 NP
52 CwSsHw 835-0/11	195 CwHw 936-0/11	289 YcPlCw(Hw) 823-0/6
53 Yc 821-0/8 NP	201 CwHw 836-0/10	290 CwHw(Yc) 823-0/7
62 CwPl(YcHw) 824-0/8	202 CwHw 937-0/10	291 CwHwPl(Yc) 825-0/8
65 YcCw(HwPl) 813-0/5	204 YcPl(CwHw) 821-0/6 NP	292 CwYcHw 823-0/7
72 CwHw(YcPl) 834-0/10	206 CwYc(Pl) 823-0/6	294 YcHw(SsPlCw) 825-0/9
74 Hw(Cw) 826-0/8	209 Cw 821-0/8 NP	298 CwYc(PlHw) 824-0/7
77 CwHw 836-0/10	213 YcCwPl(Hw) 923-0/7	301 YcHCw 825-0/6
81 YcPl(CwHw) 823-0/6	216 PlYc 821-0/7 NP	
84 HwYc 825-0/7	224 Ss 836-0/6	
85 HwYcPl 824-0/4	226 YcPl 810-0/4 NP	
96 SsHw 847-0/11	228 HwSs(Cw) 827-0/8	
101 YcPl 825-0/6	229 CwHw(Yc) 936-0/9	
104 CwHwPl(Yc) 824-0/8	231 YcHw(PlCw) 824-0/7	
105 CwHw 836-0/10	235 Cw(Hw) 934-0/11	
111 PlCwYc(Hw) 835-0/13	238 CwHw 836-0/11	