Vegetation Map

093D039

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
- Sivicultrure 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.
G L78	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)
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 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.

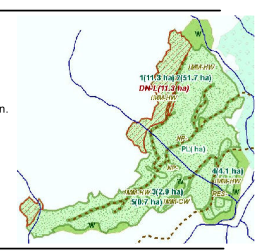
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

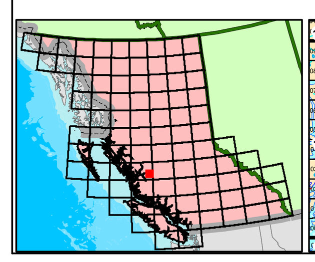
Example Opening History Details

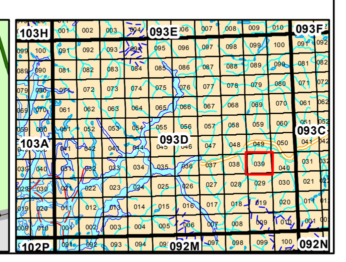
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

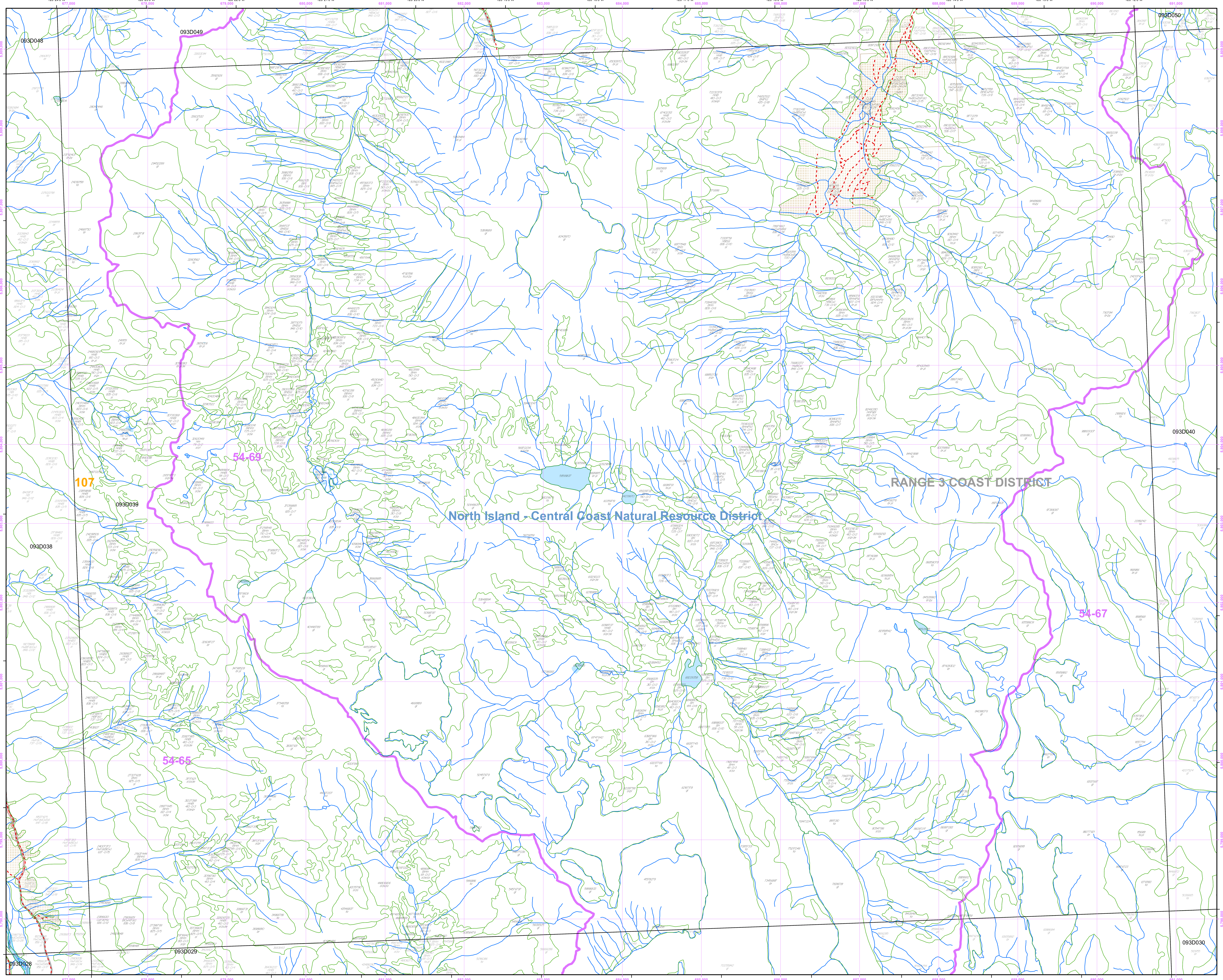
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

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









Overflow Labels

2329136 br sl	40300424 Bl(Hm) 725-0/7 sl	48696460 BlHm 825-0/4 sl	75367763 BHm 510-0/4 sl br
23470218 HmBl 823-0/4 sl he	40666456 ta	49322887 BH 827-0/6	75799306 ta
2366195 ta	41142415 BlHm 824-0/6 sl	50856479 BlHm 410-0/4 sl br	76019607 HwB(Cw) 946-0/12 sl
24106818 HwFdd(CwBa) 535-0/13 sl	41700164 Bl(Hm) 721-0/6 he sl	55028609 sl br	76417901 BHm 511-0/6 sl br
24138127 HwFdc 737-0/15	41871007 BlHm 523-0/7 sl he	58528996 br by	76609885 HB 720-0/8 ta sl
24670053 BlHm 822-0/5 sl he	41900463 BlHm 611-0/5 he sl	59292985 HB 836-0/9 sl	77079234 BHm 627-0/8
24926548 FdcHwCwB(l) 822-0/9 ta sl	41950929 BH 622-0/9 sl he ta	59330080 sl br	77080356 BH(CwPlc) 621-0/7 ta sl
25829238 ta	42160109 Bl(Hm) 726-0/7 sl	59339026 ta	77089752 ta
26596481 BlHwFdd(Cw) 826-0/6 sl	42490860 BlHm 821-0/6 ta sl	59740934 ta	77439535 BH 836-0/8
27218774 BlHm 620-0/7 he sl	42510957 ta	60659961 ta	77759054 BH 825-0/7 sl
28370187 Bl 824-0/7 sl hf	42876468 ta	60778892 ta	79449669 BH 834-0/6 sl
29150340 Bl(Hm) 823-0/6 hf sl	43017810 gl	62118888 HmBl 410-0/2 sl br he	80152952 HwBFdd(Plc) 734-0/13 sl
29528390 ta sl	43112817 BlHm 836-0/8 sl	62432910 HmB 310-0/2 br sl	80262177/L HwPlcFdcB 636-0/13 G311
30137253 ta	43581554 BlHm 825-0/7 sl	62629838 sl ta	81291333 HwCwBd(Ss) 831-0/14 sl
30527056 ta	43921605 BlHm 410-0/2 sl br	62718927 BlHm 612-0/5 sl	81751474 sl
30578542 HmBl 410-0/2 sl br	44100230 Bl(Hm) 620-0/6 he sl	64478573 ta	81952716 HwCwBd(SsFdc) 845-0/16 sl
30638481 BlHm 412-0/5 sl he	44496795 gl	65058777 br	82132922 BlHwCw(FdcPlc) 737-0/13
30949769 ta	44561956 BlHm 410-0/5 sl	65388450 BH 836-0/8 sl	82262618 ta
31038067 sl he	44720168 BlHm 825-0/7 sl	65996458 ta	82780792 sl
31398870 ta sl he	45171544 BlHm 724-0/5 sl	66258909 ta	83972932 HwCw(Fdc) 746-0/19 sl
31407255 ta	45342492 br sl	66968699 BHSs 833-0/10 sl	O4 84191939 HwBaFdc 224-0/18 sl br G182
31566472 BlHm 311-0/3 sl br	45609457 BlHm 716-0/4 sl	68578543 BHw(Ss) 631-0/13 st ri	85622123 HwCwB(Ss) 746-0/17 sl
31967205 BlHm 515-0/6 sl	45746572 BlHm 710-0/2 sl ta	68832917 ta	86440776 ta
32420484 HmB(l) 511-0/3 sl hf	45867076 BlHm 510-0/2 sl he	69127975 ta sl	86512348 HwFdcCwB(l) 840-0/13 sl
32910522 BlHm 613-0/4 sl he	46069333 Bl 623-0/7 sl	70491157 BHm 513-0/4 sl	87006447 pn
33590364 BlHm 835-0/6 sl he	46086591 ta	71598714 BHm 626-0/9	87976459 gl
35627356 sl ta he	46297002 ta	71600100 ta	89092944 DrCwE(pHw) 227-0/14 sl
36991691 BlHm 825-0/6 sl	46366625 BlHm 711-0/2 sl br	71761916 BHm 523-0/7 sl	92942830/L FdcBPl(cH) 626-0/10 sl G111
37180029 Bl(Hm) 721-0/7 he sl	46806512 BlHm 825-0/4 sl	72378358 sl	96100847 ta sl he
38579903 Bl(Hm) 721-0/6 he sl	47632943 HB(al) 946-0/13	72828201 ta	98972928 BHm 824-0/6 sl
38750285 Bl(Hm) 720-0/6 he sl	47732660 BlHm 834-0/8 sl	73148952 BlHm 511-0/4 sl br	99712973 BHm 825-0/6 sl
39057955 ta	47910169 Bl(Hm) 624-0/8 sl	73269168 sl	
39420655 BlHm 412-0/9 sl he	47942936 ta	73888227 BHm 625-0/7 sl	
39872979 HmB 610-0/2 sl br he	48662727 HBaCw 835-0/10 sl	74109904 ta	