Vegetation Map

092K082

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
- 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:

O12
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

O12 - 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)
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 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
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.

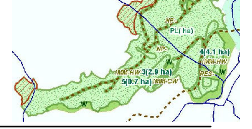
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

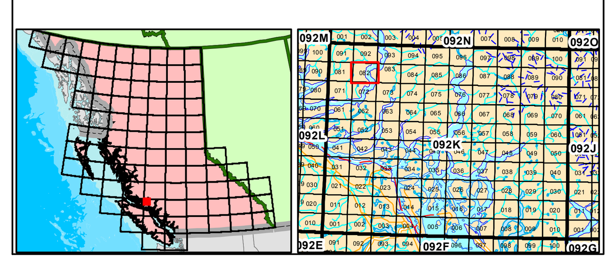
Example Opening History Details

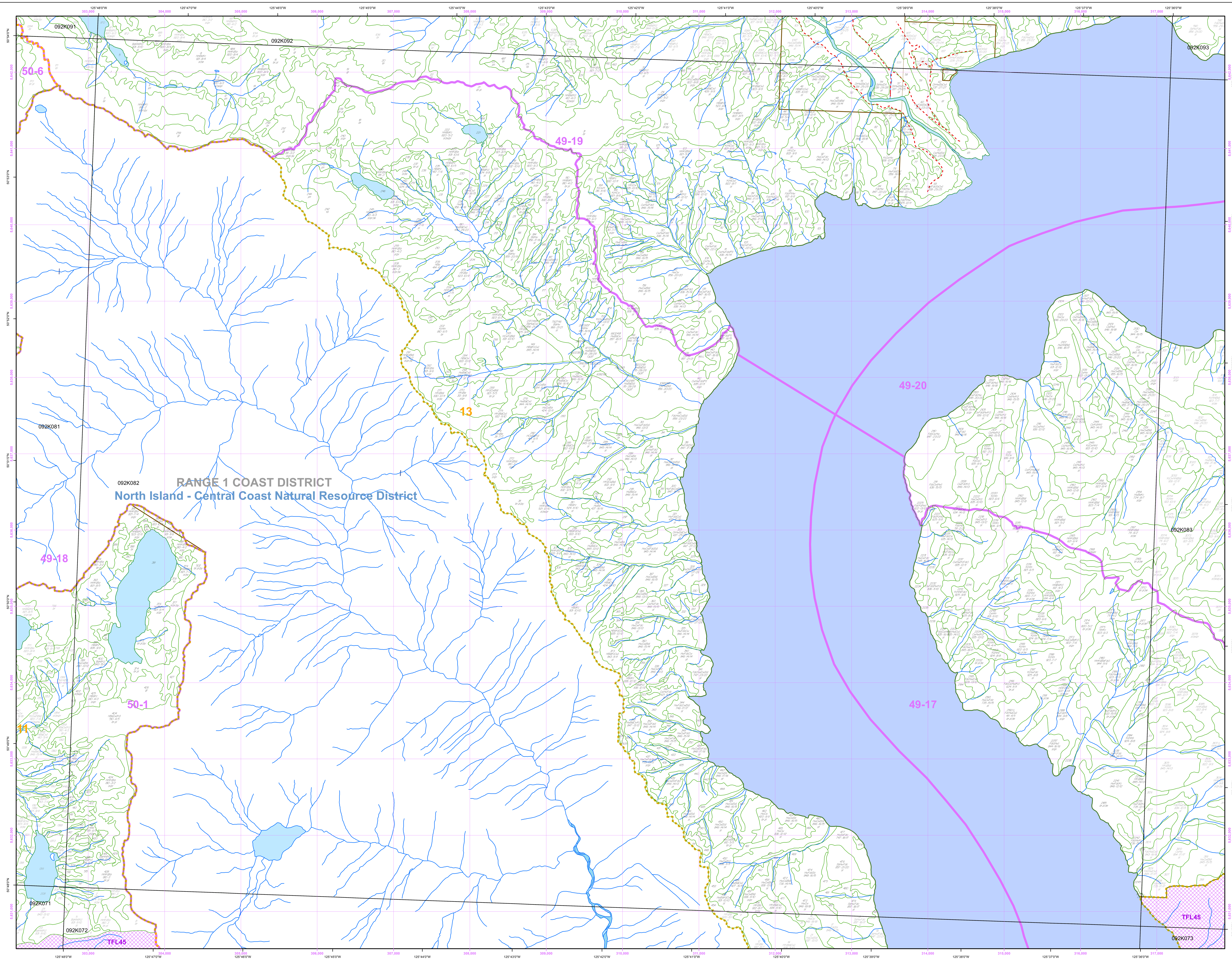
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

1 sl ta he	96 FdcHw 622-10/9 br sl	185 BaHw 857-17/17 sl	290 HwBaCw 423-11/11 sl br	364 HCwYcFdc 811-4/4 br sl	436 HwCwSsFdc 846-15/15 sl	497 HwBaCw 846-14/13 sl	2178 HmYc 833-8/4 sl
10 BaHmYc 832-11/10 sl	98 FdcPlHw 413-4/4 sl br	186 BaHw 424-12/11 sl br	294 HwCwYcBa 835-12/12 sl	365 HCwYcBa 835-9/9 sl br	438 HwCwFdc 620-8/7 br sl	498 HwCwBaYc 824-9/9 sl br	2181 HwYcBaFdc 636-15/15 sl
29 HmBaYc 832-10/6 sl	100 FdcHw 825-12/11 sl br	188 YcHBa 821-7/6 br sl	297 HwBaCw 637-18/17 sl	368 HwCwBa 846-14/13 sl	440 HwCwSs 846-16/15 sl	499 HwCwSsBa 846-15/14 sl	2182 HmYcBaFdc 845-13/12 sl
34 HBaCwYc 846-13/12 sl	101 FdcHw 846-18/17 sl	189 HmYcBa 823-6/3 sl br	298 HwBaCw 424-9/9 sl br	372 HBaYcCw 422-16/15 sl	441 HwCwSsDr 746-17/17 sl	500 SsHw 338-29/28	2190 HmYcFdc 722-8/6 sl
36 HwCwBa 310-5/5 br sl	102 FdcHwCwPl 825-11/11 sl	193 HmYcBa 833-9/5 sl br	302 HYcCwBa 720-7/7 br	380 HmBaYc 942-11/7 sl	442 HwCwSs 846-16/15 sl	501 HmYcBa 810-4/2 sl br he	2194 CwFdcHw 637-14/13
39 HYcBaCw 834-10/10 sl	106 HwFdcCw 845-16/16 sl	196 HmYcBaCw 846-14/14 sl	303 HwBaCw 436-16/16 sl	384 HmBaYc 420-8/7 sl he br	444 HwCwSsFdc 846-14/13 sl	503 HCwYcBa 823-8/8 sl br	2214 YcHmFdc 826-8/7 sl
43 HwCwBa 310-5/5 br	107 HwFdcCw 845-16/16 sl	197 BaHYc 315-9/8 sl	306 HBaYcCw 424-11/11 sl	389 HmYcBa 823-8/5 sl br	445 HwCwFdcSs 846-16/15 sl	504 HBaYc 836-12/12 sl	2226 YcHm 820-7/7 br sl he
48 HwBaCwSs 311-10/10 sl br	108 FdcHwCwPl 826-11/11 sl	199 HYcBa 311-7/7 sl	312 HmYcBa 821-8/4 sl he br	390 HmYcBa 835-11/7 sl	447 HwCwBaSs 620-10/9 sl br	505 HYcBa 832-9/8 sl he	2230 YcHm 820-7/7 br sl he
50 SsHw 338-29/28	112 CwHwFdc 846-20/20 sl	203 HwBa 954-16/16 sl	314 HwCwFdcSs 331-21/20 sl	392 br sl he by	448 HwCwYc 835-11/10 sl	506 HwCwBa 830-13/12 sl	2233 YcHm 820-7/7 br sl he
52 HwBaCwSs 338-27/26	113 HwCwFdc 846-17/17 sl	204 HBaYc 834-11/11 sl	319 CwHwFdc 721-12/11 br	395 HmBaYc 833-11/7 sl	453 HYcCwBa 933-8/8 sl	507 BaH 526-11/10 sl	2234 FdcCwHw 835-15/15 sl
55 SsHw 962-23/22 sl	115 CwHwFdc 846-20/20 sl	210 HBaYc 833-12/11 sl	325 HwCwFdc 746-17/16 sl	396 br	454 HYcBa 620-10/9 sl	508 BaH 736-12/11 sl	2235 FdcCwHw 625-13/12 sl
58 HwFdcSsDrCw 213-15/15 sl	116 CwHwFdc 313-13/12 sl br	211 HwBaYcCw 846-14/14 sl	326 HwCwBa 630-13/13 sl br	403 pn sl	461 HwCwYc 836-12/12 sl	509 HBa 524-9/8 sl he	2236 FdcCwHw 832-16/15 sl
59 HwFdcSsCw 226-23/23 sl	117 CwHwFdc 846-17/16 sl	212 HBaYc 310-6/5 br sl	327 HwCwFdc 845-15/14 sl	406 HmYcBaCw 834-10/6 sl	462 HwCwBa 845-16/16 sl	510 HwCwSs 844-13/12 sl	2238 FdcHw 943-19/19 sl
61 HwSsCwDr 228-26/26 sl	126 CwYcH 824-8/8 sl br	213 HwBaYc 946-14/13 sl	329 HwCwFdcSs 846-17/16 sl	407 HBa 525-8/7 sl	466 HwCw 420-9/9 br sl	511 HYcCwBa 832-8/8 sl	2240 HwFdcYc 724-9/8 sl
63 HwFdcSs 846-17/17 sl	132 HwCwFdc 847-17/16 sl	214 HwBa 646-19/19 sl	330 FdcHwCwSs 856-24/24 sl	408 HBaCw 846-16/15 sl	467 HwCw 547-19/19 sl	515 BaH 845-16/15 sl	2243 Fdc 620-9/9 sl br by
64 HwCwFdcSs 846-16/16 sl	137 HwCw 847-17/16 sl	215 HwBaCw 321-12/11 br sl	331 HwCwSs 942-15/14 sl	410 HBa 420-11/11 sl he	468 HwCwBa 630-13/13 sl br	516 BaH 735-16/15 sl	2244 Fdc 620-9/9 sl br by
65 FdcHwSsCw 846-21/20 sl	141/L HwCw 447-26/25 sl	226 HmBaYc 932-10/5 sl	332 HwCwFdc 946-15/14 sl	411 BaH 835-13/12 sl	469 HwCwBa 846-17/17 sl	517 BaH 845-16/15 sl	2245 FdcHwCw 845-17/17 sl
66 HwSsCw 845-17/17 sl	154 YcCwHmBa 922-9/8 sl br	227 HBaYc 945-13/12 sl	333 HwCwFdc 835-13/13 sl br	412 BaH 537-15/14 sl	471 HwBaCw 845-16/15 sl	518 HBa 524-9/8 sl he	2246 YcHmCw 825-8/7 sl
67 HwSsCw 846-17/17 sl	157 YcCwH 315-11/10 sl br	229 HwBaYc 635-12/11 sl	337 HwCwBaFdc 620-10/9 sl br	414 HBa 630-12/11 sl he	475 HwSsFdc 847-17/16 sl	519 SsHwFdc 547-22/21 sl	2247 HwCw 655-26/25 sl
71 HwFdc 846-16/15 sl	158 YcHCw 832-13/12 sl br	230 BaH 954-16/15 sl	339 CwHwFdc 620-9/8 sl br	415 BaH 845-16/15 sl	478 SsHwCwFdc 740-16/16 sl	2117 CwYcHw 933-12/11 sl br	2249 sl he br
73 CwHw 327-20/17 sl	161 HwCwBa 846-16/15 sl	231 BaHwYc 844-15/14 sl	343 HwCwFdc 846-14/13 sl	416 HBa 524-9/8 sl he	480 DrHwSs 447-29/28	2119 HwCw 634-17/16 sl	2250 HmYcBa 822-7/4 sl br
75 HwFdcCw 846-19/18 sl	162 CwHwYc 836-13/12 sl	232 HwCwBa 944-13/13 sl	345 FdcHwCwPl 621-8/7 sl br	417 BaH 845-14/13 sl	481 DrHwSs 328-18/16	2124 HwCw 631-12/12 sl br	2251 HmYcBa 945-12/7 sl
77 HwCwFdc 847-16/15 sl	170 HmYcBa 610-4/3 sl he br	236 HBaYc 832-11/10 sl	346 HwFdcCw 846-13/13 sl	420 HmBaYc 832-11/7 sl	482 HwFdcSs 736-11/10 sl	2132 CwYcHw 945-16/15 sl	2252 YcHm 822-7/6 sl
78 HwSsCw 447-26/26 sl	173 YcHmBa 610-4/3 br sl	238 HmYcBa 812-3 sl br	347 HwCwFdc 620-8/7 br sl	422 HBa 511-6/5 sl	486 HmBaYc 722-9/6 sl ta	2140 HwCwBa 845-14/13 sl	2253 YcHm 924-9/8 sl
80 HwFdcCw 846-18/17 sl	174 YcHmBa 610-3/3 br sl	241 HmBa 813-3/2 sl	348 HwDrCw 337-21/20 sl	423 HBaYc 821-9/9 sl	489 HmBaYc 737-12/9 sl	2141 Cw 635-13/13 sl	2256 FdcHwCw 843-19/19 sl
82 HwCwFdc 845-16/15 sl	176 HwBaCw 840-16/15 sl he	247 sl he br	350 HwCwSs 846-16/15 sl	427 HmYc 830-12/8 sl br	490 HmBaYc 844-13/8 sl	2142 CwHwBaYc 635-14/13 sl	2258
86 FdcHw 835-16/15 sl	177 HwBaCw 840-16/15 sl he	251 BaH 844-16/15 sl	354 HYcBaCw 822-7/7 sl br	429 HmBa 825-5/3 sl	491 HmBaYc 822-8/4 sl	2146 CwHw 931-12/12 sl	342002 HwBaCw 420-14/13 sl
87 FdcPlHw 623-8/7 sl br	178 HwBaCw 841-16/16 sl	253 HmBaYc 845-13/9 sl	355 HBaCw 420-11/11 sl	430 HwCwBaFdc 620-10/9 sl br	492 HmYcBa 833-9/5 sl	2147 CwHwBa 945-15/15 sl	3622383 HwBaSs 115-28/28 GL97
88 FdcHw 825-12/11 br sl	179 HwBaCw 840-16/15 sl	263 HBaYc 835-12/12 sl	358 HYcBa 832-10/10 sl he	431 HwCw 846-15/15 sl	493 HmYcBa 610-2/2 br	2148 CwYcHm 934-12/11 sl	3882417 BaHwCwSs 113-28/28 GL97
89 FdcHw 622-10/9 br sl	181 HwBa 955-17/17 sl	266 HCwBaYc 834-12/12 sl	359 HCwYcBa 835-11/11 sl	432 HwCwSs 843-16/15 sl	494 HBaYc 515-7/6 sl	2153 sl br he	6082190 sl
90 FdcHw 725-13/12 sl br	182 BaHw 855-20/20 sl	278 CwHwYcBa 823-10/10 sl br	361 HwCw 846-15/14 sl	433 HwCwSsFdc 846-15/15 sl	495 HmYcBa 822-8/4 sl br	2157 HwBa 945-15/14 sl	7162265 sl
91 HwCwBa 646-19/19 sl	183 HwBaYc 311-4/3 sl br	283 HwBaCw 526-13/12 sl	362 HwCw 420-11/11 br sl	435 HwCwSsFdc 846-15/15 sl	496 HmYcBa 811-4/2 br sl	2158 HmYcBa 825-7/3 sl	