Vegetation Map

093D052

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:

○12
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

○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

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

EXOTICS

Code	Species
	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 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.

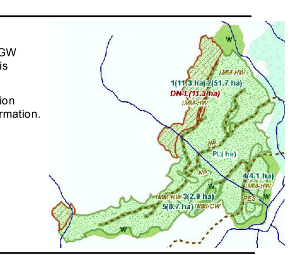
A Animal Damage	L Logging	R Site Rehabilitation
B Wildfire	M Mite Damage	T Treatment Injuries
C Cone and Seed Insects	N Non-Biological Injuries	U Damage Unknown
D Diseases	P Cone and Seedling Fungal Pathogens	V Problem Vegetation
I Insects		

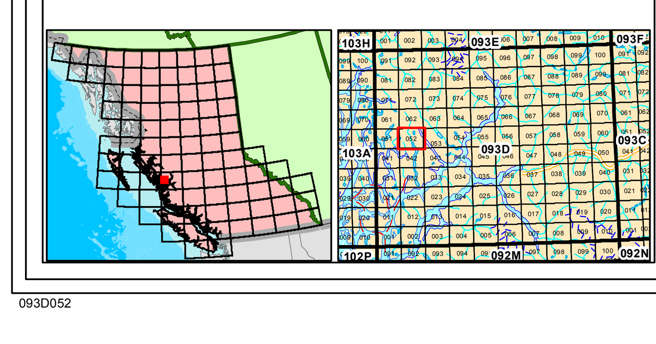
Example Opening History Details

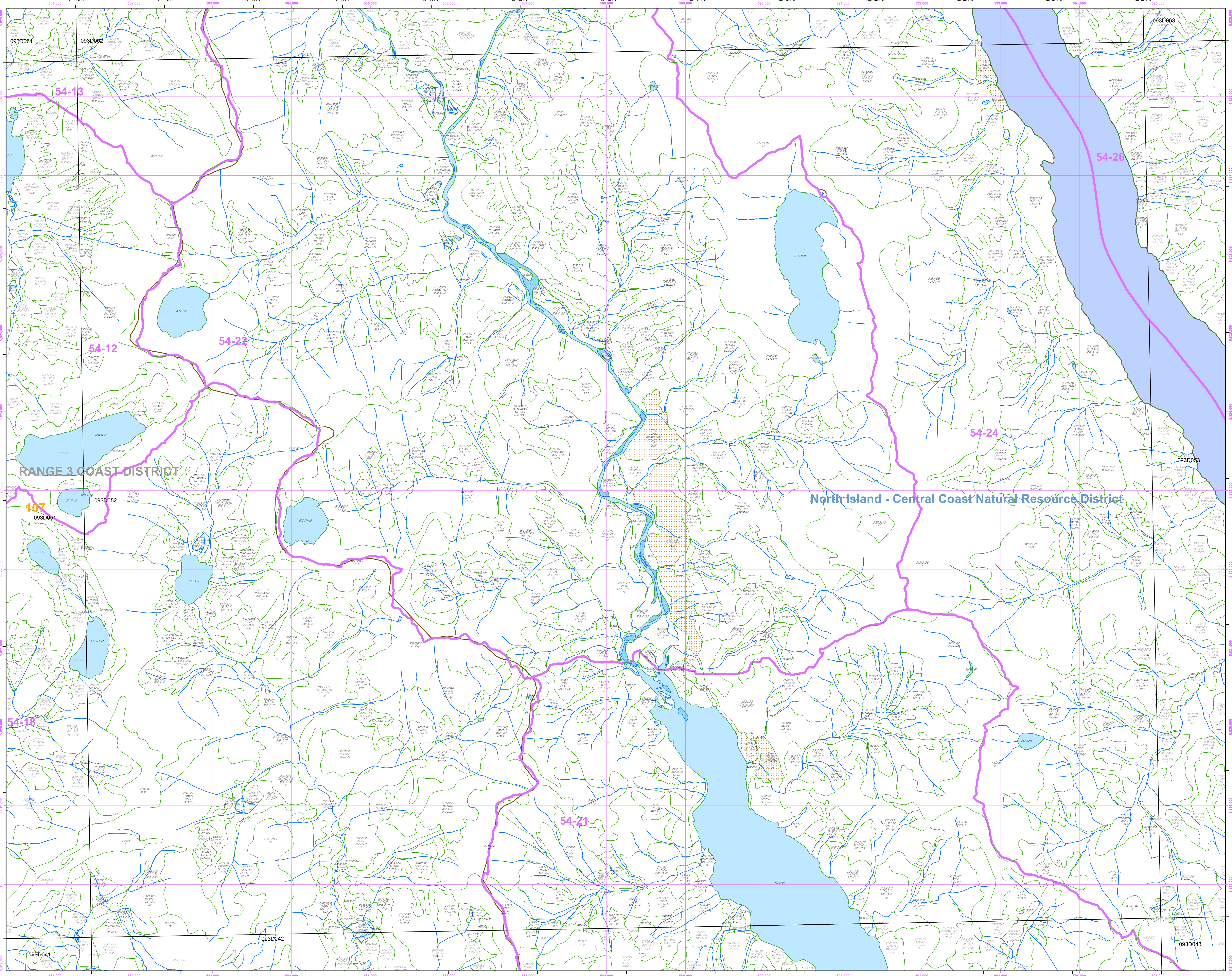
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

205269 DrSsHwBa 335-O/23 ri,sl	20246859 HBa(Yc) 720-O/8 sl	68774032 HmYcBa 923-O/2 by,sl,br,he	96786708 HwBaSsDrCw 846-O/13 sl
486419 HYcBa 833-O/9 sl	20950927 HwCw(BaYc) 834-O/9 sl	6914430 HBa(Ss) 835-O/9 sl	9909681 DrHwBaSs 534-O/23 sl
1930422 HBa 423-O/9 sl,br,by	23230379 SsHwDr(BaCw) 956-O/17 by	69906087 CwHwYc 921-O/7 br,by,sl,he	
2634713 Dr 226-20/20 sl	25396844 HBa(Yc) 720-O/8 sl	70336938 HwBaCw(Ss) 944-O/14 sl	
2875144 BaHw 226-28/28 GL91	28306808 HwBa(Cw) 721-O/10 sl	70854338 HBaYc 821-O/7 sl,he,by	
3165084 HwBa(Ss) 214-24/24 GL91	33905883 HwBa(Cw) 636-O/17	7137413 HBa(Yc) 310-O/5 sl,br,he,by	
3365014 SsBaHw(Cw) 224-28/28 GL91	35630346 HwBaCw 111-24/24 sl,br,he	75362891 YcCwH 811-O/4 sl,he,by	
4604747 HwDrSsBa 855-O/19 sl	○1 35876438 HwBaSsCw 213-22/22 sl GL90	75966932 br	
○7 4944766 BaHwSs(Ac) 113-28/28 sl GL91	44033303 br	83160452 CwDrHw(Ss) 432-O/19 sl,by,he,br	
5874628 Dr(AcHwSs) 337-O/23	44841025 ta	83850441 HCw(SsBa) 436-O/19 by	
6062519 CwYcH 830-O/11 sl,rs,he	44956795 HBaYc 210-O/3 br,sl	84444065 DrHw(SsBa) 333-O/23 sl	
6960372 HwCw(BaYc) 826-O/6 sl,by	45050326 br	84810412 DrHw(SsBa) 533-O/24 sl,he,by	
7213160 HwDrBaSs 343-O/26 ri	45300307 Hm 910-O by,br	84821034 BaSsHw(Cw) 842-O/17 sl	
7992265 Dr 331-O/22 sl	45510398 BaHw 946-O/13 sl	84990626 HwBaSs(Cw) 546-O/22 sl	
8293247 Dr 338-O/22	45883353 br	85610909 BaHw(Ss) 433-O/21 sl	
8604698 HwBa(Cw) 946-O/14 sl	45973719 HwBa(CwYc) 424-O/8 sl,br	86926936 HBaYc 946-O/12 sl	
8912019 Dr 331-O/21 sl	46163941 CwHw(Yc) 636-O/11 sl	86960416 HwBaSs 846-O/12 sl,by	
10972226 CwBa(DrHw) 222-29/29 GL90	46175780 CwHw(Ba) 836-O/12 sl	87491968 HBaCw(Yc) 834-O/10 sl	
11782268 DrBa(SsHw) 536-O/24 sl	46526755 HwBa(Yc) 311-O/8 sl,br,he,by	87516925 YcCwH 821-O/6 sl,he,by	
12482982 HwCwBa(Yc) 610-O/4 br,sl,by	66402824 HwBa 920-O/4 sl,he,by	88213738 HBa 834-O/11 sl,he	
○6 12851998 HwCwBa 222-28/28 sl,he GL90	66513335 HwBa 823-O/6 br,by	88386890 YcCwH 821-O/6 sl,he,by	
13070351 CwHw(Ss) 846-O/15 sl,by	67023830 HmBa 910-O by,br,he	91006899 HBa(YcCwSs) 935-O/10 sl	
13713637 HCwBa(Yc) 824-O/8 sl	67075451 CwHw 324-O/14 sl,he,by,br	93500479 HmBa(Yc) 823-O/4 sl,by,br,he	
14550426 Dr 334-O/25 be,sl	67235276 CwHwPl(Yc) 837-O/11 by	94196492 DrSsHw(Ba) 434-O/24 sl	
16226854 HBa(Yc) 426-O/11 sl	67235817 CwHw(BaSs) 944-O/14 sl,by	94371668 Dr(SsAc) 336-O/23 sl	
16261378 Dr 636-O/24 sl	67326210 CwHw 937-O/11	94866617 HwBaSs(Cw) 946-O/15 sl	
16723197 HBa(CwYc) 723-O/6 sl,br,by	67475897 CwHw(Ba) 945-O/16 sl,by	94890391 HmBa(Yc) 823-O/4 sl,by,br,he	
17382666 HBa(YcCw) 824-O/8 sl	67576930 SsHw(Ba) 855-O/16 by,sl	95020436 HmYc(Ba) 511-O/4 br,sl,by,he	
17722817 br,by	67606981 DrSs(Hw) 334-O/23 sl,ri	95086538 hg,mu	
17784066 HBa(CwYc) 620-O/7 sl	67925675 CwHw 936-O/12 sl,by	95126884 CwYcH 925-O/9 sl	
18152406 HYc(Ba) 822-O/6 sl,by,br	68035852 CwHw 936-O/12 sl,by	95375178 HwBaDr(Ss) 430-O/16 sl	
20026840 HBa(Yc) 822-O/6 sl	68095133 CwHw 937-O/11	96275589 SsHwDr(Ba) 446-O/27 sl	