Vegetation Map

103A090

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
○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.
GL78	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 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

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 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	rm	RESERVOIR MARGIN
be	BEACH	la	LAKE	mz	RUBBLY MINE SPOILS	rm	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.

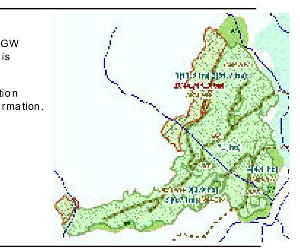
A	Animal Damage	L	Logging	R	Site Rehabilitation
B	Wildfire	M	Mite Damage	T	Treatment Injuries
C	Cone and Seed Insects	N	Non-Biological Injuries	U	Damage Unknown
D	Diseases	P	Cone and Seedling Fungal Pathogens	V	Problem Vegetation
I	Insects				

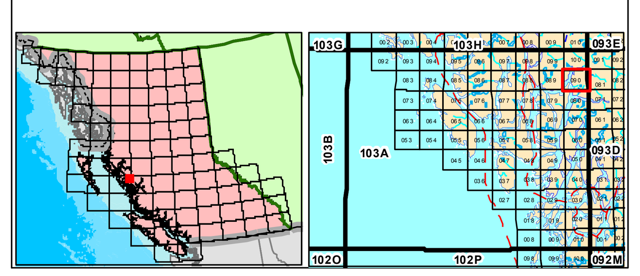
Example Opening History Details

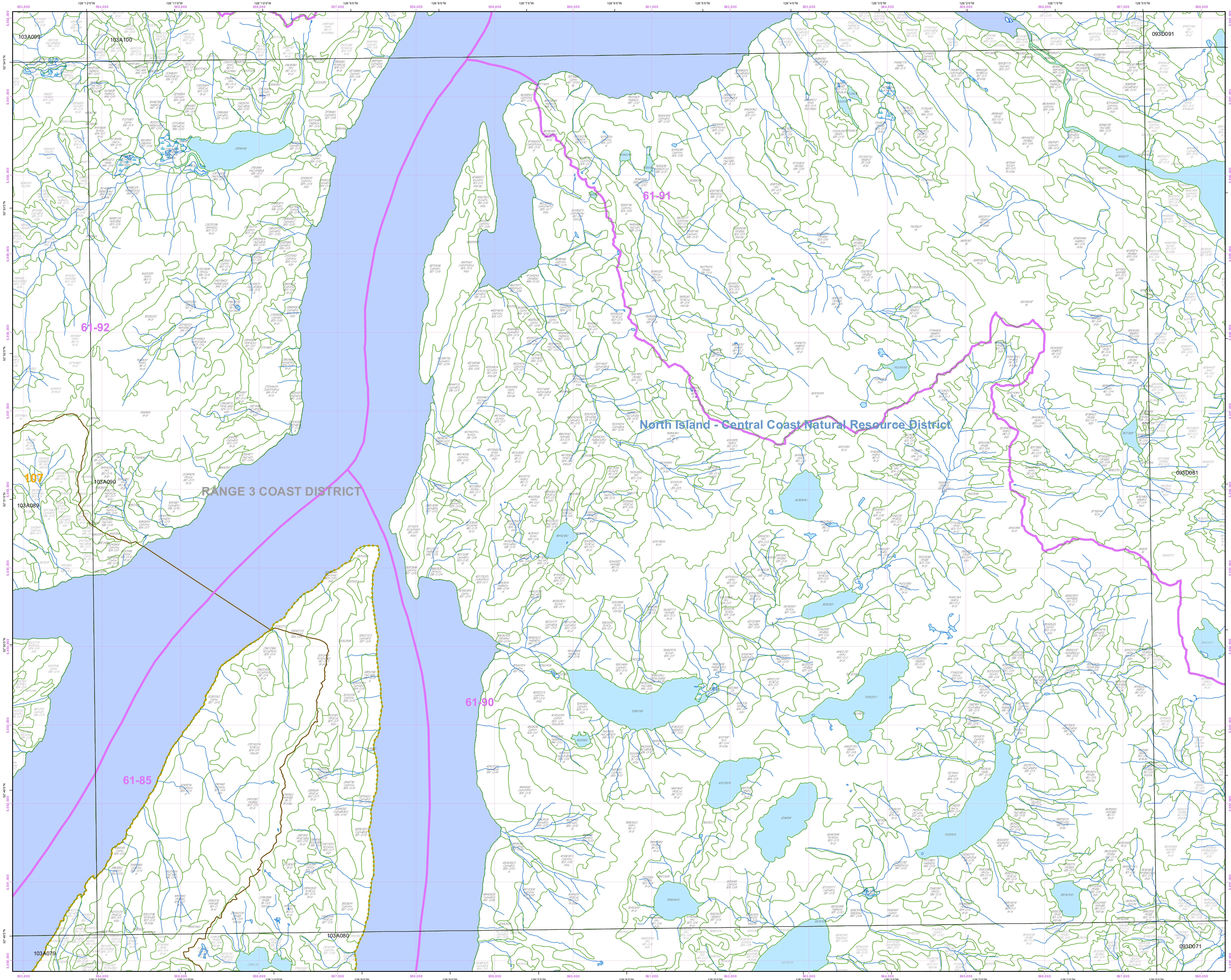
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

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

12730577 YcHCw 926-0/8 sl	30446952 HYcCw 924-0/6 br sl	79633598 HYcB 925-0/7 sl
13220609 HYcCw 923-0/6 sl by	31817059 HmYc 810-0 br sl he by	83513803 ta
13493654 HYcCw 811-0/3 br sl	31856496 HwCwSsDr 647-0/18	83706882 DrHwCw 225-20/20 sl
13693924 HwYc 924-0/4 sl br	32026951 YcHCw 822-0/6 sl br he by	84306870 BaHw 645-0/23 sl
13803287 CwHw 936-0/12 sl	32653133 YcCwPl(cHw) 813-0/4 sl br by	84596832 sl he
13834462 br	33253333 YcCwPl(cHw) 810-0/5 br sl by	86116862 HwBaSsDr 846-0/18 sl
13843575 HwCwYc 935-0/8 sl br	33591930 CwHw 834-0/10 br sl	86116896 HwBaSs 846-0/18 sl
13873488 HwCwBa 936-0/9 sl	42885540 HwCw 847-0/12	87826621 BaHwDrCwSs 845-0/13 sl
14155864 HwSsDrBa 420-0/11 sl he	42990509 CwHwYc 823-0/9 br	88586876 CwHwBa 947-0/14
14556796 CwHwYc 411-0/6 br sl	45575101 CwHw 836-0/12 sl	89090366 HmYcB 810-0/2 sl br by
14626658 HmYcBa 923-0/2 sl br by	47702380 CwYc 810-0/5 sl by he	89826027 CwYcHw 921-0/6 br sl by
14993559 CwYc(Hw) 914-0/3 sl by br	47862406 CwYc(Hw) 827-0/9	89923751 HBaYc 311-0/8 sl
15580627 HYcBa 934-0/8 br sl	48776815 CwHw 937-0/12	91781517 ta sl he
16240564 HmYcB 810-0 br sl	48994491 sl he	91856819 YcHm 923-0/5 sl br by
16583765 CwYc(Hw) 914-0/4 sl by	49393341 HwCwBa 832-0/10 sl	92353756 HYcBa 922-0/6 br sl
17784169 HYc 811-0/3 br sl	49403687 YcCw(H) 911-0/4 sl by br he	92534353 HwBaYc 323-0/10 sl he
18157089 HwYcCw 937-0/10	50543997 sl br	92584059 HBaYc 311-0/9 sl ta he
18816968 DrHw(CwSs) 232-24/24 sl br he	51394535 sl es he	92584189 HYcBa 922-0/5 sl br
19117066 CwHwYc 426-0/11	53443714 sl br	92835069 HBaYc 830-0/9 sl br he
19520593 HYcB 923-0/5 br sl	53602518 CwHwYcDr 823-0/7 br sl	92955976 CwHw 933-0/9 br sl
19907071 CwHwYc 426-0/11 br	55812120 HYc 920-0/4 sl by he br	93076096 Dr 127-20/20 br
21766421 Dr(Hw) 420-0/17 sl he by	58670995 HBaYcCw 935-0/8 sl	93185771 HmYc 911-0/2 br sl by
21936310 Dr 430-0/18 sl he by ta	59122194 CwSsHw 931-0/10 sl he	
23027040 HmYc 810-0 br sl he by	59386046 CwYc(Hw) 912-0/4 sl by he	
23944055 Dr(Ss) 325-0/15 br	62952973 sl br he	
25506828 CwHwYc 920-0/8 br	64093096 HYc 313-0/5 br sl	
25917068 HYc 811-0/4 br sl	68476949 HwCwBaYc 936-0/11 sl	
26337024 HYcCw 922-0/5 sl br	70041874 YcH 811-0/3 br sl	
27134915 CwYcPl(cHw) 414-0/8 br	70332347 HYcBa 935-0/8 br sl	
27302712 CwHwBaYc 837-0/12	70566421 HYcBa 920-0/7 sl he	
29216707 Dr 225-25/25 br	74083740 HYc 935-0/9 sl br	
30062894 YcCwPl(cHw) 826-0/6 br	75595164 br sl	