Vegetation Map

093O008

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:

○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
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
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

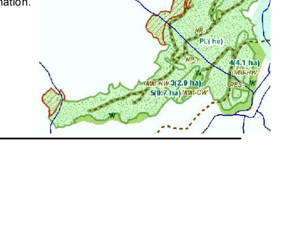
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

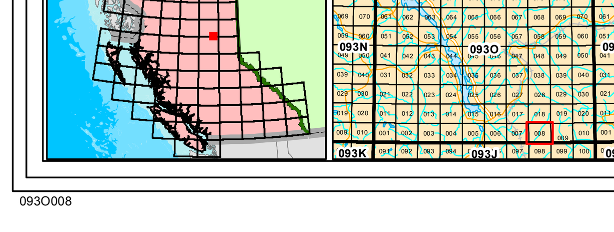
A Animal Damage
B Wildfire
C Cone and Seed Insects
D Diseases
I Insects
L Logging
M Mite Damage
N Non-Biological Injuries
P Cone and Seedling Fungal Pathogens
R Site Rehabilitation
T Treatment Injuries
U Damage Unknown
V Problem Vegetation

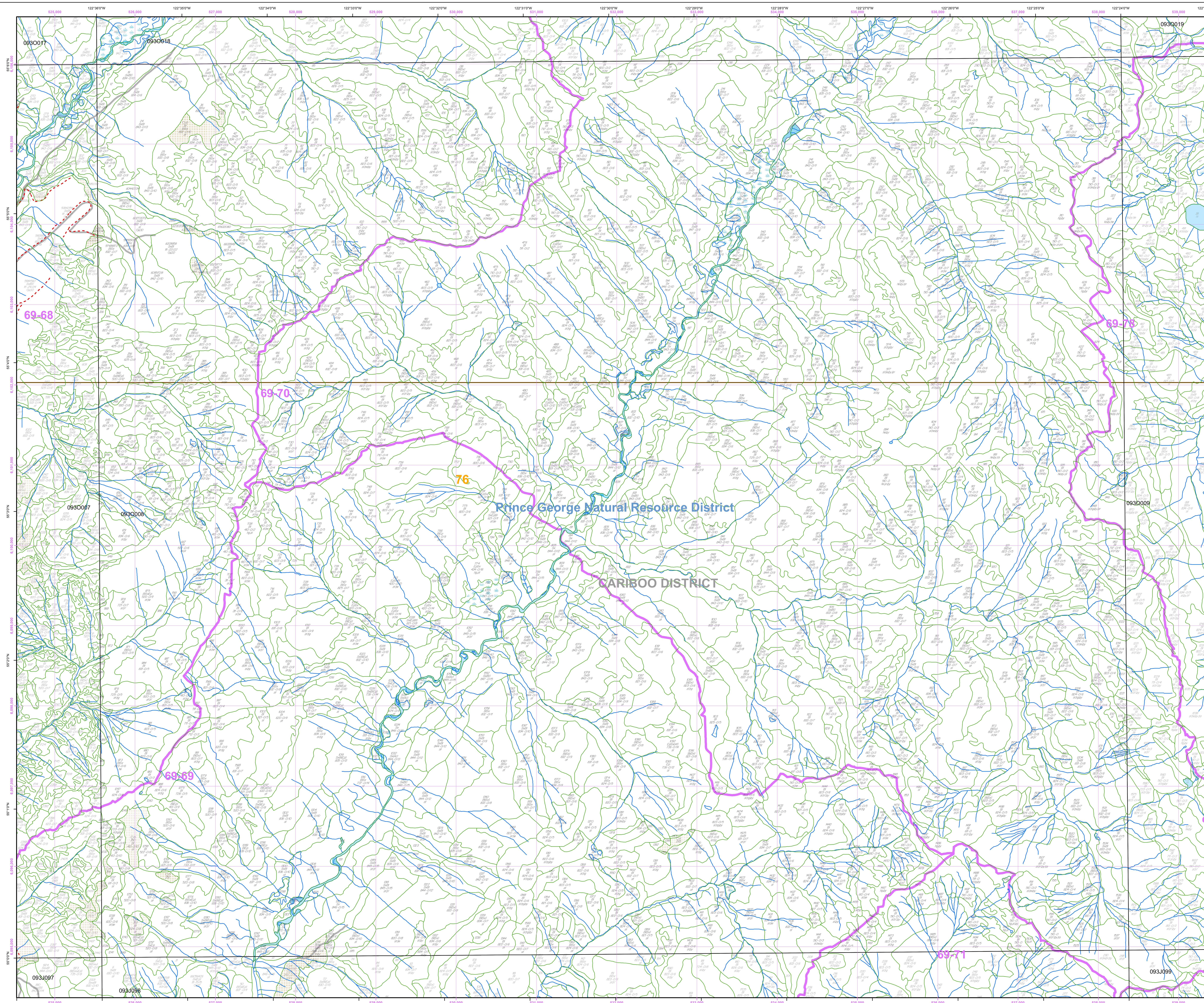
Example Opening History Details

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

1 SxB(l) 833-O/7 st	160 Bl 820-O/5 sl	334 Bl(Sx) 425-O/11	526 Sx 521-O/11 st	663 Bl 410-O/4 sl	811 Sx 731-O/8 st	1016 SxBl(Ep) 736-O/14	1230 Bl 623-O/8 sl	1392 Bl 823-O/5 sl bg	○ 527 56612041 SxBl 845-O/16
3 SxB(l) 843-O/11 st	167 Bl 710-O/3 he by sl pn	335 Bl(Sx) 823-O/3 he	528 ls	668 Bl 511-O/5 sl	812 SxBl 836-O/12 st	1030 Sx 620-O/10 st	1231 SxBl 830-O/7 st	1393 Bl 824-O/4 hg sl	60442234 BlSx 426-O/14
4 Sx 942-O/6 st	170 Bl 510-O/2 sl by	336 BlSx 823-O/6 he	533 SxBl 831-O/10 st	670 Bl 835-O/7 sl by	822 SxBl 842-O/11 st	1047 Ep(Sx) 423-O/12 sl	1232 Bl 623-O/7	1394 SxBl 833-O/7 sl tf	62302085 BlSx 835-O/8 sl tf GN61
10 SxB(l) 843-O/12	173 Bl 811-O/3 sl tf by	337 SxBl 833-O/6 he	535 SxBl 832-O/10 st	673 Bl 510-O/3 he sl	824 SxBl 844-O/12 st	1059 Sx 520-O/12 st	○5 1233 Bl 621-O/7 st	1395 Bl 411-O/10 sl bg	○ 10 63262069 SxBl 844-O/13
12 SxBl 844-O/10 st	176 Bl 510-O he by	341 Bl(Sx) 823-O/3 he	556 Bl 823-O/4 sl by	676 Bl 411-O sl bg	828 SxBl 835-O/10 st	1061 Sx 844-O/10 st tf	1234 Bl(Sx) 832-O/9 st	1396 Bl 411-O/10 sl bg	64671726 BlSx 835-O/8 sl tf GN61
14 Sx 942-O/6 st	184 Bl 511-O/3 sl tf by	342 SxBl 833-O/7 st	571 Bl 612-O/5 sl by	679 Bl 410-O/2 sl be	832 SxBl 836-O/12 sl tf	1070 Sx 841-O/9 st	1236 BlSx 623-O/9	1400 BlSx 823-O/7 sl tf	65632080 SxBl 833-O/8 st
17 SxB(l) 834-O/12	199 Bl 611-O/4 sl tf by	344 BlSx 823-O/6 he	573 Bl 510-O hg sl by	681 Bl 410-O/2 sl be	○5 879 Bl 414-O/10 sl	1111 SxBl 832-O/10 st	1239 Bl 524-O/11 sl bg	1401 Bl 823-O/5 sl bg	
33 BlSx 831-O/9 st	201 BlSx 835-O/8 sl	348 Bl(Sx) 823-O/6 st	575 Bl 510-O/2 sl bg	685 Bl 711-O/4 sl	914 Bl 613-O/5 sl bg by	1129 Bl 510-O/2 sl	1240 BlSx 821-O/7 sl tf	1406 Bl 823-O/5 sl bg by	
○10 45 BlSx 831-O/9 st GL00	205 SxBl 830-O/8 st	○5 352 Bl 524-O/10 sl	591 Bl 820-O/7 st	692 Bl 310-O/7 sl	918 Bl 510-O/2 sl he by	1132 Bl 512-O/3 sl	1241 SxBl 830-O/10 st	1426 Bl 824-O/6	
48 Bl 834-O/8 sl tf	207 BlSx 832-O/10 sl bg	○5 354 Bl 524-O/11 sl bg	592 BlSx 822-O/6 st	706 Bl 610-O/3 hg sl	920 Bl 820-O/5 st	1139 Bl 710-O/4 sl tf	1242 Bl 620-O/6 st he	1450 Bl 823-O/5 sl tf	
51 SxBl 932-O/5 st	208 Bl 823-O/3 sl by	364 BlSx 835-O/8 st	600 BlSx 823-O/6 sl	712 Bl 411-O/2 sl bg	937 Bl 510-O/4 sl bg	1147 BlSx 820-O/7 st	1243 Bl 611-O/3 sl	1455 Bl 611-O/5 sl bg by	
52 SxBl 833-O/8 st	215 SxB(l) 832-O/8 st tf	366 Bl(Sx) 625-O/8 st	609 SxBl 823-O/3 he	718 Bl 610-O/3 sl be	938 he by sl br	1152 Bl 824-O/6 sl	1248 SxBl 833-O/10 st tf	1456 Bl 610-O/3 hg sl	
57 BlSx 834-O/9 st	218 BlSx 822-O/6 sl tf	368 Sx 520-O/11 st	615 BlSx 835-O/7 sl bg	726 Bl 820-O/6 st	940 ta by he	1153 he sl by	1249 Bl 413-O/10 sl	1461 Bl 711-O/3 hg sl	
58 BlSx 833-O/9 st	223 SxBl 836-O/8	370 Bl 831-O/9 st	624 he by ta sl	742 Bl 823-O/5 sl by	946 Bl 610-O/3 sl he by	1157 Bl 611-O/4 sl he	1251 Bl 524-O/8 sl	1466 Bl 510-O sl by	
78 SxBl 835-O/8 sl GN61	226 Sx 831-O/9 sl	376 Bl 831-O/9 st GN61	631 Bl 510-O/4 sl he by	762 Bl 822-O/6 sl bg	957 BlEp 621-O/10 he	1159 SxBl 831-O/8 st	1260 Bl 413-O/10 sl	1470 Bl 711-O/4 sl by	
85 SxBl 833-O/8 st	227 SxBl 836-O/8	380 BlSx 820-O/6 st GN61	632 sl be pn	764 EpSx 424-O/14 sl bg	958 SxBl 630-O/14 st be	1182 BlSx 835-O/11 sl tf	1265 Bl 524-O/10 sl	1478 Bl 510-O hf sl by	
87 Bl 611-O/4 hf sl by	230 Bl 624-O/6 sl	390 BlSx 820-O/6 st	633 Bl 611-O/4 sl bg	770 EpSxB(l) 421-O/15 st bg	959 SxBl 844-O/12 he sl	1185 BlSx 835-O/11 sl tf	1270 Bl(Ep) 520-O/8 sl	1479 Bl 611-O/3 sl bg by	
91 Bl 612-O/5 sl tf by	236 SxBl 834-O/8 st	409 Bl 611-O/5 sl	634 Bl 821-O/4 hg sl by	771 Bl 825-O/6 sl	960 Bl 621-O/10 he sl	1186 SxBl 833-O/10 sl	1278 SxBl(Ep) 836-O/10 sl tf	1499 ls	
92 Bl 612-O/3 sl by GN61	○6 265 Bl 411-O/10 sl bg	415 Bl 510-O/2 sl he by	635 Bl 821-O/4 hg sl by	772 Bl 821-O/6 st	961 Bl(Sx) 620-O/11 st	1190 SxBl 834-O/9 sl by	1283 EpSxB(l) 526-O/13 sl	1502 Bl 510-O/3 hg sl	
94 Bl 826-O/5 sl	280 BlSx 830-O/9 st	417 Bl 510-O/4 sl	636 Bl(Sx) 821-O/5 st	776 BlEp 620-O/9 st he	962 BlSxEp 520-O/9 st he	1203 Bl(Sx) 721-O/6 st be	1290 Ep 520-O/10 st	1506 Bl 821-O/6 sl he	
102 BlSx 821-O/5 sl	290 Bl 824-O/4 by sl	427 Bl 825-O/5 by sl	637 SxBl 832-O/7 st	777 BlEp 620-O/9 st he	963 Bl(Sx) 623-O/11	1213 Bl 823-O/4 sl tf by	1298 Sx 831-O/11 st	1513 Bl 510-O sl bg	
103 Bl 824-O/5 sl by	297 Bl 824-O/5 sl by	430 Bl 722-O/5 sl	638 Bl 823-O/3 sl	778 Ep(Sx) 421-O/14 st	964 BlSx 631-O/12 st he	1215 sl tf	1301 Sx 822-O/8 st	1515 Bl 812-O/3 sl	
122 Bl 824-O/5 sl	309 SxBl 921-O/4 he sl by	442 Bl 510-O sl	639 Bl(Sx) 821-O/5 st	782 SxEp 420-O/9 sl bg	965 Bl 811-O/3 he sl	1219 Bl 611-O/4 sl bg	1303 Sx 520-O/6 st	1525 sl he br by	
126 Bl 820-O/5 sl	325 Bl 511-O/3 sl tf	443 ta sl he by	640 SxBl 833-O/8 st he	784 SxEp 720-O/9 st he	966 Bl(Sx) 622-O/11 st	1221 sl tf by	1305 Sx 620-O/11 st	1540 Bl(Sx) 824-O/4 sl tf	
127 sl he by	326 Bl 823-O/4 sl tf by	446 Bl 611-O/5 hf by sl	642 SxBl 933-O/6	786 SxBl 835-O/9 sl	967 SxBl 630-O/13 st	1222 Bl 723-O/4 sl tf	1311 Sx 832-O/10 st	1546 SxBl 831-O/7 st	
133 Bl 510-O/2 sl he by	327 he sl by	469 BlSx 837-O/8	643 Bl(Sx) 833-O/6 sl	787 BlSx 821-O/6 sl	968 BlEp 621-O/10 he	1223 Bl 710-O/4 sl tf by	1312 ls	1550 Bl 821-O/5 st	
134 BlSx 822-O/5 st	328 he sl by	481 sl bg	644 Bl(Sx) 833-O/6 sl	790 Sx 630-O/12 st	969 SxBl 844-O/12 he sl	1224 Bl 611-O/3 hf sl by	1315 BlSx 721-O/5 st	1555 he by sl br	
143 sl tf by	329 Bl 510-O/3 sl GN61	499 Bl 835-O/6 sl by	646 Bl(Sx) 823-O/5	794 SxSb 721-O/5 hg sl	970 BlSx 623-O/11 st	1225 Bl 510-O/5 hg sl	1323 SxBl 842-O/12 st	1558 SxBl 944-O/11 sl tf	
149 Bl 720-O/5 sl tf by	330 he sl by	506 Sx 820-O/7 st	647 SxBl 832-O/7 st	795 SxBl 847-O/12 st by	972 BlSx 623-O/10 he sl	1226 sl	1328 SxBl 847-O/13	1562 Bl(Sx) 620-O/7 he	
151 Bl 510-O sl tf by	331 br by sl	517 SxB(l) 843-O/11 st	648 Bl 515-O/6	800 Sx 830-O/10 st	977 Bl 820-O/6 sl	1227 Bl 823-O/4 sl tf by	1338 Bl 313-O/10 sl bg	2850 SxBl 945-O/10 st	
153 Bl 824-O/4 sl	332 Bl 510-O/3 sl GN61	521 SxB(l) 844-O/10 st	649 BlSx 832-O/9 st	803 SxBl(Ep) 837-O/12 st	986 Bl 822-O/6 sl tf	1228 Bl 624-O/9 st	1378 Bl 834-O/7 sl by	2854 SxBl 932-O/4 st	
157 he by br sl	333 BlSx 834-O/6 sl	522 Sx 821-O/8 st	657 Bl 820-O/7 sl	804 Sx 831-O/9 st	1011 BlSx 823-O/7 st	1229 Bl 621-O/8 st he	1390 Bl 827-O/5	2856 Bl 823-O/5 sl bg	