BRITISH COLUMBIA
Ministry of Forests, Lands and Natural Resource Operations

# Vegetation Map
# 082M028

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:**

| Example | 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<br>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<br>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)<br>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   blbnk - 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**
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 *Shagbark 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) |
|---|---|---|---|---|---|
| | | | | 0 | 0 - 5 |
| 1 | 1-20 | 1 | 0.1 - 10.4 | 1 | 6 - 15 |
| 2 | 21-40 | 2 | 10.5 - 19.4 | 2 | 16 - 25 |
| 3 | 41-60 | 3 | 19.5 - 28.4 | 3 | 26 - 35 |
| 4 | 61-80 | 4 | 28.5 - 37.4 | 4 | 36 - 45 |
| 5 | 81-100 | 5 | 37.5 - 46.4 | 5 | 46 - 55 |
| 6 | 101-120 | 6 | 46.5 - 55.4 | 6 | 56 - 65 |
| 7 | 121-140 | 7 | 55.5 - 64.4 | 7 | 66 - 75 |
| 8 | 141-250 | 8 | 65.5 + | 8 | 76 - 85 |
| 9 | 251 + | | | 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 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; 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**

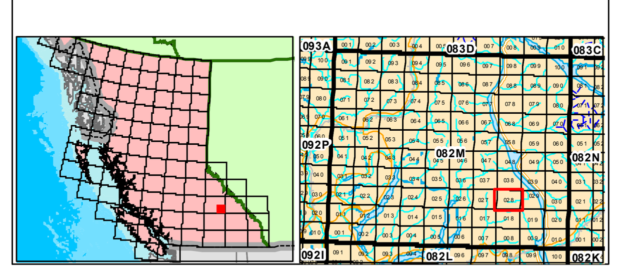
Disturbance type code preceeded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

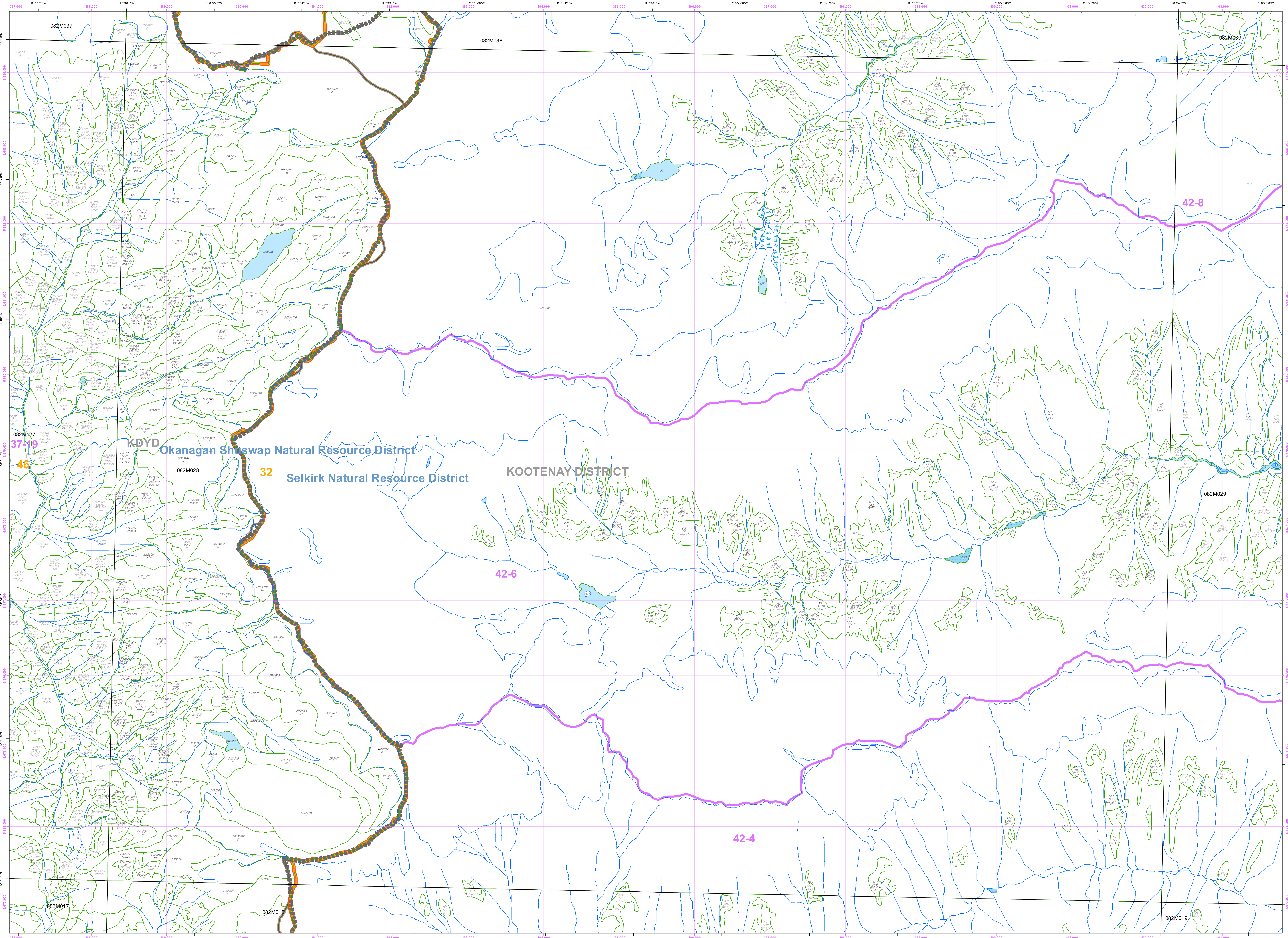
A Animal Damage; B Wildfire; C Cone and Seed Insects; D Diseases; I Insects; L Logging; M Mite Damage; N Non-Biological Injuries; P Cone and Seedling Fungal Pathogens; R Site Rehabilitation; T Treatment Injuries; U Damage Unknown; V Problem Vegetation

**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

| | | |
|---|---|---|
| 1001 HB 822-O/7 AF | 1117 BS 414-O/9 | 17380748 BHm 822-O/5 he sl,br |
| 1002 HmBl 823-O/5 | 1125 Bl 822-O/5 AF | 17741885 BHm 812-O/2 br be,by sl |
| 1005 H(B) 833-O/7 | 1126 BS 626-O/9 | 18110710 BHm(Sx) 820-O/4 he sl,ta |
| 1007 HmB(l) 834-O/6 | 1133 B(S) 822-O/5 AF | 18441408 B(Hm) 826-O/6 he |
| 1009 B(H) 821-O/4 AF | 1134 BS 822-O/5 AF | 18536418 ta |
| 1012 BH 832-O/5 AF | 1136 Bl 712-O/4 AF | 19001482 sl be |
| 1013 BH 832-O/5 AF | 1138 BS 822-O/5 AF | 19241012 BHm(Sx) 820-O/4 he sl,ta |
| 1014 SHBl 944-O/10 | 1140 B(S) 821-O/5 AF | 21211586 HmBl 810-O br by |
| 1019 BS 933-O/7 | 1143 SBl 836-O/13 | 21580248 he ta,sl |
| 1024 Bl 822-O/5 AF | 1144 SBl 845-O/11 | 25344283 br |
| 1026 CwSHw 944-O/10 | 1147 SBl 843-O/12 | 29360326 ta |
| 1027 B(SHm) 933-O/5 NP | 1152 A | 32718800 pn |
| 1028 CwSHw 944-O/10 | 10585676 BHm 833-O/7 sl be | |
| 1032 BS 824-O/4 | 10875543 sl be,ta | |
| 1034 B(S) 933-O/7 | 11035757 sl be,ri | |
| 1039 BS 312-O/8 NP | 11924436 B(HmSx) 930-O/4 sl be,ri | |
| 1042 SBl 936-O/4 | 12324051 SxBlHm 935-O/6 he | |
| 1044 BS 834-O/14 | 12516260 HmBl 810-O br be,by | |
| 1046 B(HmS) 414-O/5 NP | 12904415 HmB(l) 825-O/4 he br | |
| 1047 BS(Hm) 633-O/12 | 14326301 HmBl 810-O br be,by | |
| 1050 R | 14382716 BHm 932-O/5 br sl,he | |
| 1051 BS(Hm) 633-O/12 | 14434411 br be | |
| 1053 HmBlS 622-O/8 | 14512185 BHm 823-O/4 br be,by,sl | |
| 1058 Bl 824-O/5 NP | 14614062 ta | |
| 1071 Bl 922-O/3 AF | 14632029 BSxHm 836-O/7 he | |
| 1078 BS 824-O/4 NP | 14684368 Hm 922-O/3 he br,sl by | |
| 1079 BS 824-O/4 NP | 15331299 sl be,ta | |
| 1088 CwHw 845-O/11 | 15421016 sl be | |
| 1091 HwCw(S) 944-O/9 | 15650847 br | |
| 1096 BH(S) 325-O/16 | 15604068 Bl 812-O/3 he by,br sl | |
| 1097 R | 16340870 BSx 833-O/7 sl be,br | |
| 1098 SCw(Hw) 744-O/19 | 16611235 Sx(BlCw) 834-O/9 sl be | |
| 1101 CwS(Hw) 954-O/11 | 16630690 BHm 811-O/2 he by,br sl | |
| 1108 Bl 821-O/5 AF | 17360512 ta | |