# Vegetation Map
## 094O020

Ministry of Forests, Lands and Natural Resource Operations — British Columbia

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:**

| 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<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 — *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 *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 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.

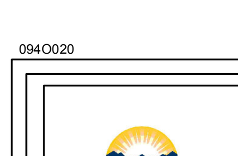
A Animal Damage; B Wildfire; C Cone and Seed Insects; D Diseases; I Insects; L Logging; M Mite Damage; N Non-Biological Injuries; P Cone and Seedling Fungal Pathogens; R Site Rehabilitation; T Treatment Injuries; U Damage Unknown; V Problem Vegetation

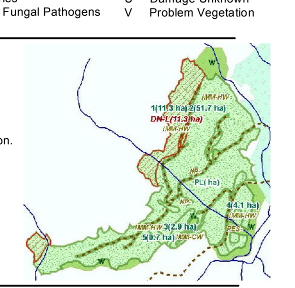
**Example Opening History Details**

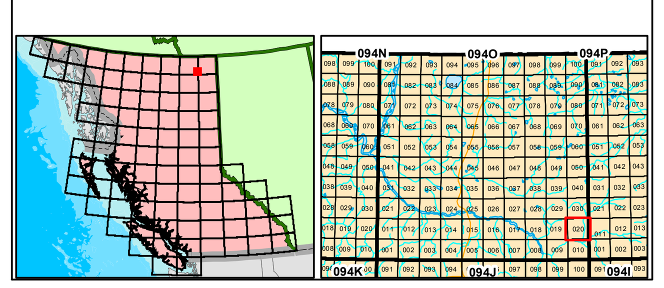
Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

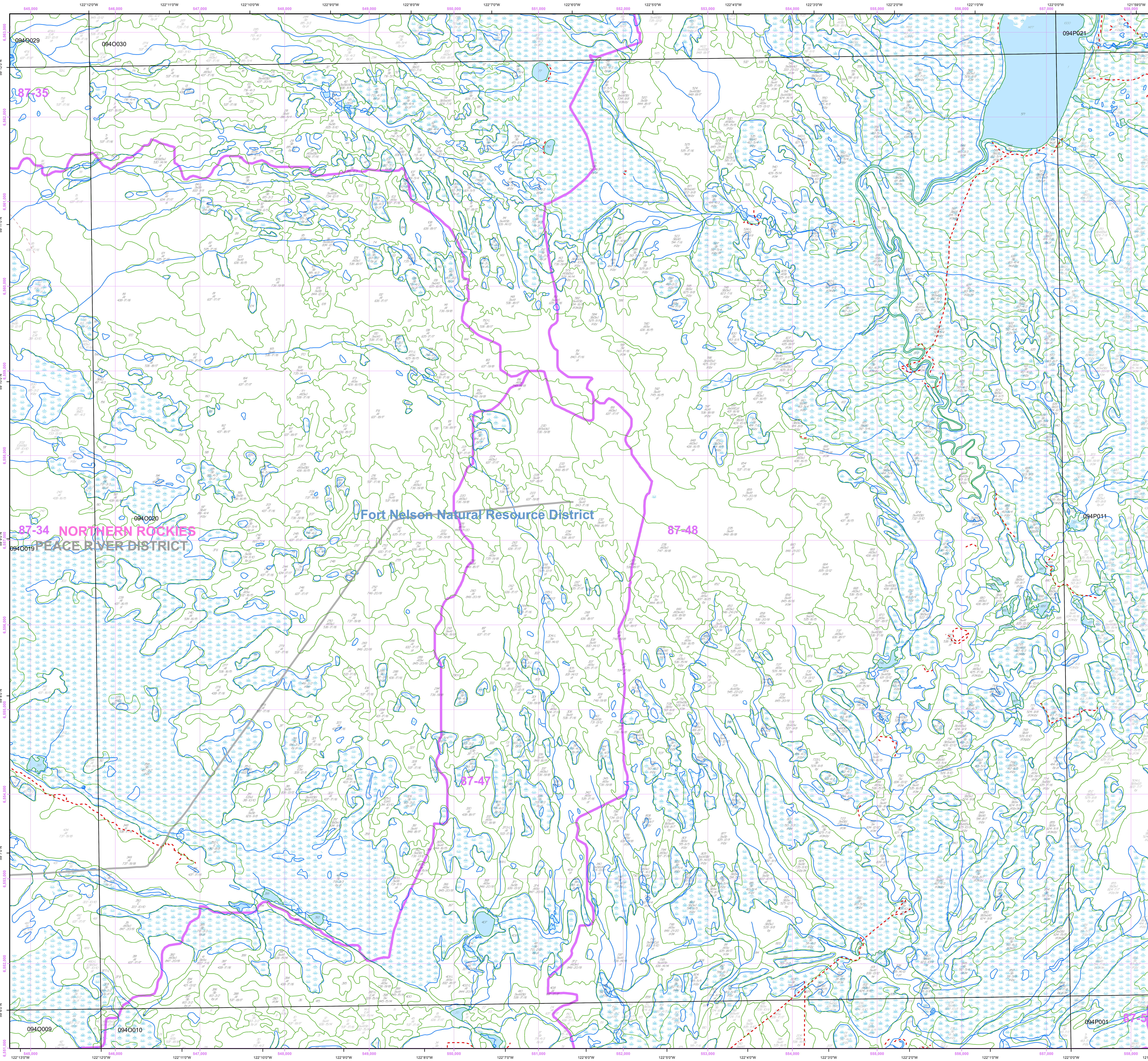
The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -

- OPENING
- OPENING LABELS
- OPENING - PLANTING ACTIVITY
- ACTIVITY TREATMENT UNIT
- STANDARDS UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH








### Overflow Labels

| | | | | |
|---|---|---|---|---|
| 1 At 438-17/16 | 89 SwAt 532-16/15 st he | 218 Sw(At) 537-19/18 | 505 Sb 411-8/8 st he | 722 SwAt(AcSb) 526-14/13 st by |
| 2 At 537-17/16 | 90 AtSw 536-17/16 | 238/L Sw 832-11/11 st | 521 Sw(At) 639-15/14 | 725 Sb(Sw) 412-5/4 st by |
| 4 At 537-17/16 | 93 Sw(Sb) 835-10/10 st | 248 AtSw 534-17/16 st | 522 Sb(Lt) 612-6/5 st by he | 732 Sb 413-4/3 st by |
| 6 At 437-16/15 | 98 SwAtSb 836-13/12 | 254 Sb 814-4/3 by st | 528 SwAt 645-19/19 st he | 790 AtSw 536-14/14 st |
| 8 At 537-17/16 | 100 At 636-17/17 | 255 At 635-17/17 | 532 AtSb 336-20/19 st | 806 Sb(Sw) 624-11/10 st by |
| 9 At(Sw) 537-17/16 | 112 Sb 713-4/3 by st | 257 At 737-19/18 | 533 SwSb 633-12/12 st he | 814 SwSb 634-17/16 st he |
| 10 Sw 830-11/10 st | 118 Sb 613-3/2 by st | 269 Sb 614-3/2 by st | 536 Sw(At) 639-15/14 | 820 SbSw 415-5/4 st by |
| 15 At 437-17/16 | 120 AtSw 537-18/17 | 270 Sb 714-3/2 by st | 538 Sb 512-6/6 hg st | 825 AtSw 636-17/17 by |
| 18 At 537-17/16 | 124 Sb 814-4/4 by st | 280 Sw(Sb) 736-13/13 | 549 SbSw(At) 424-11/11 st | 835 SbSw 311-6/5 st he |
| 19 Sb(Sw) 823-8/8 st by | 128 AtSw 630-17/17 st | 287 Sb 812-5/4 by st | 554 AtSb 526-12/11 st | 841 Sw 724-9/8 st |
| 22 SwAt 637-17/16 | 133 Sb 613-3/2 by st | 290/L Sw 842-16/15 by st | 555 At(Sw) 526-12/11 st | 843 At(SwSb) 426-9/8 he |
| 24 Sb 815-5/4 by st | 137 At 630-16/15 st | 302 AtSw 536-16/15 | 557 SwSb(At) 534-13/12 he st | 846 Sb 412-3/3 st by |
| 25 Sb 713-4/3 by st | 140 At(Sw) 636-17/17 | 303 At 736-19/18 | 558 AtSw(Sb) 526-13/13 st | 856 Sb(Sw) 824-7/7 st by he |
| 31 Sb 713-4/3 by st | 144 At 630-17/16 st | 312 At 436-16/15 st | 559 Sb(Lt) 411-6/6 st he | 859 Sb(Sw) 624-6/6 st |
| 32 Sb(At) 826-5/5 by | 145 Sb 613-3/3 by st | 317 AtE 421-16/15 st | 583 At(Sw) 536-18/18 st | 860 At(Sw) 436-20/20 st he |
| 34 At(E) 437-17/16 | 146 At(Sw) 636-17/17 | 327 At 531-17/16 st | 586 AtSw(Sb) 526-14/13 st by | 861 AtSwSb 324-15/14 st by |
| 36 SwAt 636-15/14 | 149 SwAt 846-17/16 | 329 Sb 613-3/2 by st | 606 Sb(SwAt) 413-7/7 st by | 862 SbSwAt 726-7/6 st |
| 44 AtSw(Sb) 536-17/16 | 154/L At(Sw) 432-17/16 st | 333 AtSw 734-16/15 st | 611 Sw(AtEpSb) 532-14/13 st he | 870 SwAt(Sb) 735-13/12 st |
| 46 Sb 415-3/2 st by | 156 At 437-16/15 | 354 AtSw 424-16/15 st | 613 AtSb 424-15/14 st | 872 Sw(Sb) 421-10/9 st he |
| 47 Sb 612-3/2 by st | 158 At 437-16/15 | 359 SwSb 736-11/11 | 618 SbSw(Lt) 423-11/11 st he | 876 Sw(At) 536-14/14 st by |
| 52 SwSb 836-10/10 | 160 At 437-17/16 | 364 At(E) 321-15/14 st | 619 AtSw 421-15/14 st hg | |
| 53 SwSb(At) 835-12/11 | 161 Sb 811-4/4 st by | 367 SwAt 636-16/15 | 626 At(SwSb) 526-14/14 st he | |
| 55 Sb 713-4/3 by st | 170 At 430-17/16 st | 369/L At(E) 321-15/14 st | 628 At(Sw) 536-14/14 st he | |
| 57 SwSb(At) 836-10/9 | 175 Sb 714-3/2 by st | 373 Sw(Sb) 733-12/11 st by | 635 AtSbSw 535-15/15 st he | |
| 64 At(Sw) 836-18/17 | 184 Sb 715-4/3 by st | 376 At(Sw) 434-17/16 st | 637 At(Sw) 637-15/14 st | |
| 67 Sb 713-4/3 by st | 188 Sb 714-3/3 by st | 377/L ESb(Sw) 317-10/10 st | 640 At(Sw) 436-21/20 st he | |
| 68 At 847-19/18 | 190 At(Sb) 327-17/17 | 379 AtSw 428-16/15 | 647 AtSw 636-17/16 st | |
| 70 Sb 713-4/3 by st | 191 Sw(Sb) 735-13/12 st | 380 Sb 824-5/4 by st | 652 SwAt 536-18/17 by | |
| 71 Sb 824-5/5 by st | 198 At 432-17/16 st | 389 At(Sw) 836-18/17 | 679 AtSw(Ep) 426-11/11 st | |
| 74 At 433-17/16 st | 200 Sb 821-5/5 by st | 395 At(Sw) 536-18/17 | 690 At 436-19/18 st he | |
| 75 At 536-17/16 | 204 At 431-17/16 st | 396 At 437-17/16 | 694 SwAt 635-17/16 st he by | |
| 79 Sb 714-4/3 by st | 207 At 633-17/17 st | 400 At 537-17/16 | 695 SwAt 634-16/16 st he by | |
| 80 AtE 436-17/16 | 208 Sb 814-4/4 by st | 409 At 537-17/16 | 707 At(Sw) 637-15/14 | |
| 82/L At 632-17/17 st he | 210 Sb 813-4/3 by st | 415 At 537-17/16 | 718 Sb 413-4/3 st by | |