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RESULTS TRAINING

Module 8 – RESULTS & MapView



Version 1.4 November 2005

Document Change Control

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| 1.4 | October 2005 | Updated documentation to Mapview 4 & new spatial functions in RESULTS | Mei-Ching Tsoi | |






















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1. General

The objective of this document is to supplement Learnlinc RESULTS and Mapview training module offered by the Ministry of Forests (MOF) starting November 2005.

This document will cover most functions that exist in Mapview version 4 Silviculture Theme. Only the most significant items are presented, but participants are encouraged to explore on their own using this document as a reference.

Since electronic submissions of both attributes (xml) and spatial (gml) data are new to the silviculture business area, this document provides a starting point for examining how to use Mapview for viewing silviculture data, and should be considered a “work in progress”.

1.1 Target Audience

This module is designed for the staff of MoFR, BCTS, Ministry of Agriculture and Lands (MAL), Tenure holders (large and small) and those people who are interested learning about MapView, RESULTS and Spatial data and/or the links between MapView and RESULTS.

1.2 Authorization Level

Although there is no RESULTS authority level required to participate in this training session, in order to complete the activities demonstrated the user will need a minimum of RESULTS View.

1.3 Recommended Delivery

This module will be delivered primarily in a LearnLinc format, as well as in a self-guided study format (i.e., the presentation materials and study materials will be available on-line, as well as previously recorded LearnLinc Sessions). The LearnLinc sessions are scheduled for 1.5 hours of online interaction.

1.4 Learning Objectives

Upon completion of this module, students should:

- Be able to find maps in MapView from RESULTS
- Be able to differentiate between RESULTS rendered maps and GML created maps in the Land and Resource Data Warehouse with MapView.
- Be able initiate a spatial query
- Understand what ROSC is and its significance to spatial outputs in MapView.

1.5 Pre-requisites

A basic understanding of RESULTS through practice or previous training. This module is prepared to address changes to RESULTS not as an introduction to

RESULTS. Ideally users should have also completed the web-based training course An Orientation to MoFR Business Applications

1.6 Topics

- Spatial data in RESULTS
- RESULTS reports and spatial queries
- Overview of MapView
- MapView 4
- Tools in Mapview
- Silviculture Theme in MapView
- Corporate Reporting System (CRS), RESULTS, and MapView

2. Getting Access

This module deals with three applications:

- RESULTS
- Corporate Reporting System (CRS – reporting functions within RESULTS),
- MAPVIEW version 4

The following web page contains information on how to get access to RESULTS and CRS: <http://www.for.gov.bc.ca/his/results/>

2.1 Licensees or consultants working on-behalf of licensees

Licensees will need to have a BCeID userid to access Mapview. This can be done via the RESULTS Website via [How to get Access](#). Typically, within RESULTS and CRS, you are given access for the district you reside in, and you can view and run reports for your client number.

2.2 Ministry staff or consultants working on-behalf of Ministry

All MOF staff are assigned iDIR userid which allows you to use Mapview; however access for RESULTS and CRS must be requested. Please use the above link to request RESULTS and CRS access.

Note that in the case of RESULTS, staff has to specify which authority level is required. In the case of approval level authority, authorization will be required by the District Manager. Once you have RESULTS and CRS authority granted, you can view any records that are within your organizational unit.

3. Legislation Framework for Silviculture Reporting

Forest and Range Practices Act, under the s. 86 *Forest Planning and Practices Regulation* and s. 76 *Woodlot Licence Planning and Practices Regulation* s.76, and *Forest Practices Act of BC Act*, under s.46 *Timber Harvesting and Silviculture Practices Regulation* and s.46 *Woodlot Licence Forest Management Regulation* detail silviculture reporting requirements. These requirements detailed out frequency for reporting of standard units, denudation, silviculture and forest cover information and associated map requirements. When there are planting activities, details about the planting activity is also provided. Update of the forest cover is submitted to the Ministry at the three critical milestones: at harvest completion, at regeneration and, at free growing.

4. Mandatory ESF Submissions

Memo on mandatory electronic data submission signed by Tim Sheldan, Assistant Deputy Minister, dated March 14, 2005

“The Executive has endorsed the following recommendation:

1. For private land where Crown has reservation on the timber, non-major applications of forestry licences to cut, and range tenures, ESF will continue to be done internally by Ministry unless the tenure applicants choose to do it themselves.
2. For all other tenure, ESF should be done by licensees starting June 1, 2005.”

Documents that provide background information on how to submit to RESULTS via ESF can be found on the following websites. Note that these documents are being consolidated into one document called *Silviculture Information Submission Guidebook* which will be available by the Winter of 2005.

- *The Electronic Submission Framework RESULTS Submission Guide* located at: http://www.for.gov.bc.ca/his/esf/index_ressub.htm.
- Industry Guide to the Preparation and Submission of RESULTS Reports through the Electronic Submissions Framework located at: <http://www.for.gov.bc.ca/his/results/IndustryGuide.pdf>

An additional document called *British Columbia Mapping Standards for Use in RESULTS Submissions* may be useful to assist licensees with their gml submissions located at: http://www.for.gov.bc.ca/his/results/Silv_Map_Stand.pdf

5. External Usages of Data Submission

Prior to the implementation of RESULTS, licensee's silviculture data submissions had historically been viewed as a one-way street of information flow – from licensee into the MOF. With the RESULTS application being web-based, the information flow can now be viewed as a two-way street. Some licensees have their own internal forestry information system and will not use RESULTS operationally. However, some other licensees may chose to RESULTS as their information system as it is web-based, free and easily accessible.

RESULTS will serve as the core tracking tool for the ministry to ensure that basic silviculture obligations are being met, as well as serving as baseline information for assisting in other business areas at varying levels:

- RESULTS forest cover information is used to update/cut-into the VEG Layer as harvest completion and forest cover at critical milestone are provided via routine forest cover surveys. The cut-in process is done an yearly interval which represents the provincial coverage that is used for timber supply analysis and initiatives under defined management areas;
- Background information to assist in support of the development of Forest Stewardship Plans;
- Identification of potential candidate treatment opportunities for Forest For Tomorrow and Forest Investment Account;
- Information to support various certification frameworks;
- Meeting of provincial obligations to report on national initiatives such as National Forestry Database and Criteria & Indicators; and,
- Perform effectiveness evaluation on the legislation framework.

6. RESULTS & Spatial Submissions

RESULTS is designed to accept combined attribute (.xml) and spatial (.gml) data submissions through the use of Electronic Submission Framework (ESF). This information is stored in the Land Resource Data Warehouse (LRDW).

There are two types of information stored:

- “rendered” image is generated from the .gml submission and stored in RESULTS that contains the linework submitted with a legend. This image is static and is for display purposes within RESULTS with no spatial intelligence.
- .gml information that is spatially enabled that sits in a layer within the LRDW. Mapview uses the LRDW data to display various business layers.

It is important to draw clear distinction between this since they serve different purposes.

| Functional Difference | Rendered Image | GML in LRDW |
|------------------------------|---|---|
| Application | View in RESULTS | View in Mapview or other Mapping tools (eg. ArcMap, iMAP) |
| Display | One opening at time | Multiple openings |
| Scale | Default to best show entire opening boundary within RESULTS; Users cannot specify | Users can specify desired scale in Mapview or use tool of choice |
| Data resolution | Can view all information associated with a record | Data is displayed – based on design |
| Flexibility | None | Can overlay with other sets of information, scale, and annotate as desired |
| Queries | Images within RESULTS are static and cannot provide spatial summary Can only use rendered image to display opening details reports | Once a query is built, information on the occurrences (egg. openings) can be passed over to Mapview to provide overview |

7. Data Completeness & Data Accuracy

Users should be aware that RESULTS spatial data is not complete due to a variety of reasons outlined in sections 7.1 to 7.5. Therefore users will have to use judgment on the appropriateness of spatial usage given the business question that is being addressed.

7.1 RESULTS Opening Spatial Conversion (ROSC)

RESULTS Opening Spatial Conversion (ROSC) is a project that was completed Fall 2004. It took the inventory forest cover polygons (VEG) and where good data linkages, VEG polygons were merged to create a spatial opening boundary. This merged opening linework was placed at the SP level in RESULTS. Note that this process created both a rendered image and also RESULTS-opening layer in the LRDW.

ROSC conversion considerations:

- only those polygons where good data linkages exist using the mapsheet and opening numbers between VEG and RESULTS opening numbers were used to create the opening boundary;
- if no linkage exist, no linework was created; the SP Map will be missing;
- for these ROSC-created opening boundaries, no subsequent SU or forest cover polygons details are available unless there is any subsequent new gml submission of spatial data; and
- no effort was placed on modifying the linework – what existed in VEG layer was merged and transposed into RESULTS.

It is anticipated for areas where there are outstanding basic silviculture obligation, subsequent submissions by the licensees will eventually replace any ROSC-created linework at the critical milestones.

Of the approximately 186,000 openings that exist in RESULTS, 108,468 or 58% records were converted. This represents 5.3 million hectares of the total 8.3 million hectares tracked in RESULTS. The distribution will vary among districts (see Appendix C).

It is important that all users are aware of the ROSC 58% success as this would have a downstream impact on subsequent use and interpretation of spatial queries.

This information provides a baseline for having some information for developing simple spatial tools; without this RESULTS would have been no spatial data. However, care must be taken in the interpretation of spatial data to account for any potential issues associated, including:

- incomplete data (missing linework will not appear in any mapwork); and,
- conflicting data accuracy issues associated with data sources, digitizing, varying standards etc.

Each of these potential issues will be discuss in the following sections.

7.2 Interpretation Considerations Due to Incomplete Spatial Data

RESULTS ESF submission started as of December 2002, and will become mandatory as of June 1, 2006. As of October 2005, RESULTS received 122,000ha SP maps and 473,000 forest over maps of the total of 8.3 million hectares captured in RESULTS through almost two years of operation. Given that acquiring missing spatial linework will be a gradual process, the suggested approach will be to run RESULTS reports, and then tie these outcomes to Mapview. This one-way street is to ensure that users are aware of the total population of information that meets reporting requirements before spatial review as this represents a subset for critical business reporting related to compliance with basic silviculture obligations.

There are spatial queries resident within Mapview that provides flexibility for users to run certain themed reports. These Mapview queries are returning only information where spatial linework exist for the queried condition which represents a subset of the total population in RESULTS.

7.3 RESULTS Corporate Reports Generalized to the Opening Level

Due to the limited .gml updates to-date, reports in RESULTS that are spatially enabled are tied to the opening level. Therefore users are encouraged to refer back to the reports to find out finer resolution of the unit of interest (opening, standards unit, polygon), but spatial reference is by opening to enable coarse filter to locate area of interest.

This is why it is important to always view the textual report along with the spatial image to make the proper interpretations. Likewise, if some actions are requiring accurate maps, we strongly recommend contacting the licensee or company who is responsible for the obligation to get the most current map of the opening if none exist in RESULTS.

7.4 Data Accuracy and Linework Source

There are three potential spatial linework sources:

- ROSC-converted data – based on merged veg layer polygons associated with an opening, but generalized to the opening level
- iDIR – based on gml submissions from paper submissions that were forwarded to Data Service Providers
- BCeID – based on gml submissions from the licensees directly

This “meta-data” on when the submitted, if ESF, can be located through the **History** in the Tombstone.

At this point in time, the spatial information from ROSC and iDIR are used at a cursory level to assist in the identification of general location of openings. However, it is recommended that if there are specific concerns where accuracy is a concern, staff are advised to refer to the appropriate licensees to obtain the most current and accurate map.

The exception to this is any BCeID information, which is based on .gml data sent by the licensees. This is considered to be accurate by the Ministry.

When there are more detailed follow-up activities, such as inspections, we recommend that detailed maps are generated, if available within RESULTS/Mapview if there are ESF bceid maps, or can be requested from the licensees.

7.5 Missing Base Forest Cover Maps on TFLs

There is missing veg forest cover maps for portions of the province on TFL tenures. TFL holders are required to keep an accurate inventory of the forest cover, but are not required to submit or supply this to the MOF/MSRM. The exception to this is forest cover updates related that contains outstanding basic silviculture obligations; overtime, subsequent forest cover reporting will come in for these areas. Or for some TFL holders had a data exchanges agreement with the government, base cover maps were supplied to the MOF and this information is reflected in the LRDW. Where no TFL forest cover information exist, they will appear as holes when you overlay VEG-related information on the landscape on these TFL-related area.

8. Disclaimers on Limits to Data Usage

In the process of using the information within the LRDW, the onus is placed on the individual on the appropriate use and interpretation of this information.

Obvious disclaimers are present within Mapview including:

- This map information should not be used for navigation.
- This map should not be used as the source for any legal decisions; we suggest that you use maps provided by the licensees if there is any requirement to have accurate maps for the purpose of compliance and enforcement.
- Mapview integrates data from various sources in the LRDW. Each layer is supplied by different data sources or data custodian. As such, any questions about meta-data (when and how it was collected), data standards etc, should be directed back to the respective data custodian.

9. RESULTS Reports and Mapview Spatial Queries

The RESULTS/LRDW Silviculture Opening does not contain full coverage. After ROSC, there is 58% of the records contain an opening boundary. This will gradually shift over time as new submissions come in.

Conceptual Evolution of Spatial Information in RESULTS

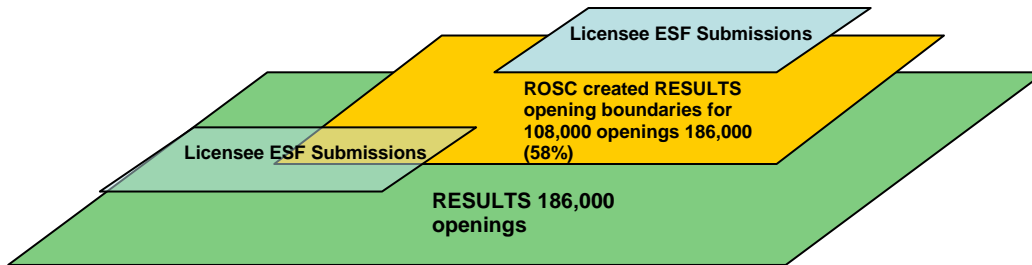
ROSC created linework for 58% of existing in RESULTS.

As Licensees start submitting their data via ESF, this will either:

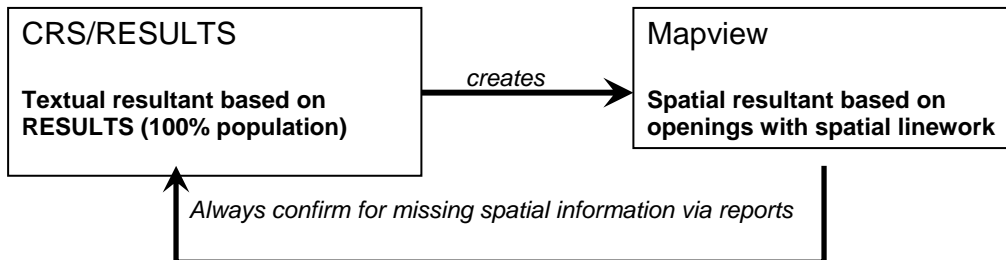
- provide better information for existing openings.
- provide linework for all new openings.
- provide update linework for within openings (standards unit, activity, forest cover)

Therefore RESULTS textual data will always be the most complete.

Through time, RESULTS spatial data will become more complete.



Using Spatial Queries – Data Flow



10. Overview of RESULTS Map Examples

The following section includes three examples of how map images appear in RESULTS and Mapview :

- Licensee GML Submission;
- Successful ROSC created opening; and,
- Unsuccessful ROSC opening that has no associated map image.

10.1 Licensee GML Submission (new opening)

Attached is an illustration of a GML submission by a licensee. Last Update userid/date provides the origin of who and when the spatial map (eg. iDIR vs. BCeID) from an accuracy perspective.

The screenshot displays the RESULTS application interface. At the top, there is a navigation bar with tabs for Search, Inbox, Openings, Data Submission, Admin, Event Tracking, and Reports. Below this, a sub-menu includes options like Opening Inquiry, Multi-Tenure, Stocking Standards, Activities, Forest Cover, Milestones, Land Status, and Attachments. The main form area contains various input fields for an opening inquiry, including Org Unit (DPG - Prince George Forest Dis), Client (CANFOR), Name (CANADIAN FOREST PRODUCTS LTD.), Opening Id (1000260), Licensee Opening Id (PEL165), License No (A40873), CP (R55), Timber Mark (FJ3R55), and Cut Block (PEL165). A red circle highlights the 'SP Map' button. Below the form, the title 'RESULTS301 - Opening Inquiry' is shown. The form details include Opening, SP Exempt (N), Opening Category (FTML - Forest Tenure - Major Lic), Tenure Type (A01 - Forest Licence), Admin Forest Org (DPG - Prince George Forest District), Management Unit Type (U - TIMBER SUPPLY AREA), Tenure Admin Org (DPG - Prince George Forest District), Actual Disturbance Start (2004-08-25), Regeneration Overdue (No), Previous Stand Type (M - Meadow), Previous Timber Type (SPT: PLJ, SPZ: , Age Class: B, Height Class: 4, Stocking Class: 1, Site Index: , Site Index Source:), Maximum Allowable Permanent Access (4%), and Gross Area (26.8 ha). Two red arrows point to the 'Last Updated By' (bceidhstreckercfp) and 'Last Updated Date' (2004-12-09 10:52:57 AM) fields. The 'Opening Comments' field is empty. At the bottom, there are 'Save', 'Delete', and 'Add' buttons, and a footer with 'Feedback', 'Disclaimer', 'Privacy', 'Copyright', and 'MINISTRY OF FORESTS'.

Example of GML SP Map Submission

District: DPG - Prince George Forest District
Location: PEL
Client: CANADIAN FOREST PRODUCTS LTD.
Operations: 01
Date: 2004-04-01 00:00:00

License: A40873
CP Mark: R55FJ3R55
Block: PEL105

Opening Hum: 1000260
Opening ht: 20.0
Gross Area: 28.0

| Standard Unit | A | B | Total |
|---------------|------|-----|-------|
| Net Area | 22.2 | 5.6 | 28.8 |
| BGC Zone | SBS | SBS | |



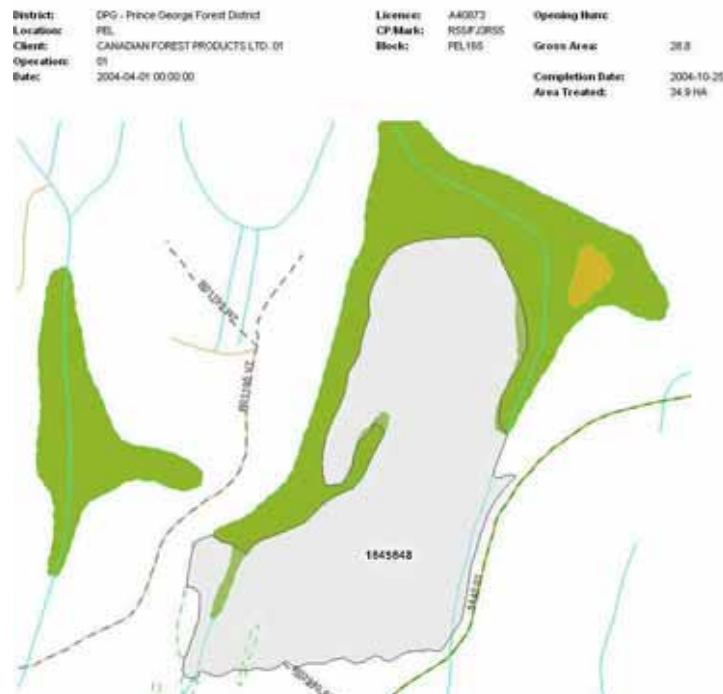
Activity Map

Activity maps are optional in RESULTS. If there is an activity report, then the Map indicator will be set to “Y” indicating line work exist for the activity. Click “Y” will show the rendered image.

The screenshot shows the RESULTS application interface. At the top, there are navigation tabs: Search, Inbox, Openings, Data Submission, Admin, Event Tracking, and Reports. Below these are sub-tabs: Opening Inquiry, Multi-Tenure, Stocking Standards, Activities, Forest Cover, Milestones, Land Status, and Attachments. The main content area displays details for an activity, including Org Unit (DPG - Prince George Forest Dis), Client (CANFOR), Opening (1000260), Licensee (PEL165), and various area measurements. A table titled 'RESULTS315 - Activities' shows one row with a 'Map' column containing a 'Y'. A red box highlights the 'Map' column, and a red arrow points from it to the second screenshot.

| Risk | ATU ID | Base | Tech | Method | Objective | Date | Area | Fund | Project # | Can | Map | Details |
|------|---------|------|------|--------|-----------|------------|------|------|-----------|-----|-----|---------|
| Y | 1645848 | DN | HV | CCRES | | 2004-10-25 | 34.9 | | | N | Y | |

If Map = “Y”, then can click an view the Activity map



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Forest Cover Screen

Select the Forest Cover Map hyperlink to see the rendered image.

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[Opening Inquiry](#) | [MFL-Tenure](#) | [Stocking Standards](#) | [Activities](#) | [Forest Cover](#) | [Milestones](#) | [Land Status](#) | [Attachments](#)

Org Unit: DPG - Prince George Forest Dis | Status: APP
Client: CANFOR 01 | Name: CANADIAN FOREST PRODUCTS LTD.
Opening: | Opening Id: 1000280 | Licensee Opening Id: PEL165
Licence No: A40073 | CP: R55 | Timber Mark: FJ3R55 | Cut Block: PEL165
Exhibit A Area (haj): 30.409 | Disturbance Gross Area (haj): 34.9 | IAR (haj): 28.8 | Forest Cover Area (haj): 34.9
[Go](#) [Clear](#) [SP Map](#) [Map View](#) [History](#) [FTA](#)

RESULTS320 - Forest Cover Summary

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Last Action Date: 2004-12-09 | Comments: [Forest Cover Map](#) | 5 rows returned

| SU | Polygon ID | Non-Mapped Area | Layer | Polygon Area | | Stocking | | Reference Year | Species Code | Stems ha | | | |
|----|------------|-----------------|-------|--------------|------|----------|------|----------------|--------------|----------|-------------|-------------------|-------------------------|
| | | | | Gross | Net | Stat | Type | | | Total | Well Spaced | Total Well Spaced | Free Growing |
| | A | | I | 22.2 | 22.2 | NSR | PL | 2004 | | | | | Details |
| | B | | I | 6.6 | 6.6 | NSR | PL | 2004 | | | | | Details |
| | W | | I | 4.5 | 4.5 | MAT | NAT | 2004 | | | | | Details |
| | Y | | | .5 | .5 | NP | NAT | 2004 | | | | | Details |
| | Z | | | 1.1 | 1.1 | NP | UNN | 2004 | | | | | Details |

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Forests Cover Map from GML Submission

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RESULTS336 - Forest Cover Map

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District: DPO - Prince George Forest District **Licence:** A40873 **Opening Item:**

Location: PEL **CP Mark:** RSSR JRS55

Client: CANADIAN FOREST PRODUCTS LTD. **Block:** PEL165 **Gross Area:** 34.9

Operation: CANFOR - 01

Date: 2004-04-01 00:00:00

Legend:

- Silviculture Forest Cover
- Vegetated Land Cover
 - Tree-Coniferous
 - Tree-Broadleaf
 - Tree-Mixed
 - Shrub-Tall
 - Shrub-Low
 - Herb
 - Herb-Ferbs
- Herb-Grasslands
- Bryoids
- Bryoid-Moss
- Bryoid-Lichens
- Rock Outcrop
- Bedrock
- Rubble, Talus, Blockfield
- Tenure Roads
- Forest Service Road
- Highway
- Municipal Road
- Non-Status Road
- Recreation Trail
- Road Permit
- SCP Road
- Right of Way
- Sub & CP Road
- Cities
- Ocean
- Waterbodies
- Watercourses
- Wetlands
 - Floodland
 - Swamp
 - Marsh
- BCGS Sheets

| Poly # | Poly Area | Ref Yr. | Site Indx | Stock. Stats | Stock. Type | Lyr | Dens | TWS | WS | FG | Spec | Avg Age | Avg HR | Spc % |
|--------|-----------|---------|-----------|--------------|-------------|-----|------|-----|----|----|------|---------|--------|-------|
| A | 22.2 | 2004 | 16 | NSR | PL | I | | | | | | | | |
| B | 6.6 | 2004 | 16 | NSR | PL | I | | | | | | | | |
| W | 4.5 | 2004 | 16 | MAT | NAT | I | | | | | | | | |
| Y | .5 | 2004 | | NP | NAT | | | | | | | | | |
| Z | 1.1 | 2004 | | NP | LNN | | | | | | | | | |

RESULTS Linkage to Mapview

Application Home

RESULTS

Search Inbox Openings Data Submission Admin Event Tracking Reports

[Opening Inquiry](#) [Multi-Tenure](#) [Stocking Standards](#) [Activities](#) [Forest Cover](#) [Milestones](#) [Land Status](#) [Attachments](#)

Org Unit: DPG - Prince George Forest Dis Status: APP

Client: CANFOR 01 Name: CANADIAN FOREST PRODUCTS LTD.

Opening: Opening Id: 1000260 Licensee Opening Id: PEL165

Licence Ilo: A40873 CP: R55 Timber Mark: FJ3R55 Cut Block: PEL165

Exhibit A Area (ha): 30.409 Disturbance Gross Area (ha): 34.9 HAR (ha): 28.8 Forest Cover Area (ha): 34.9

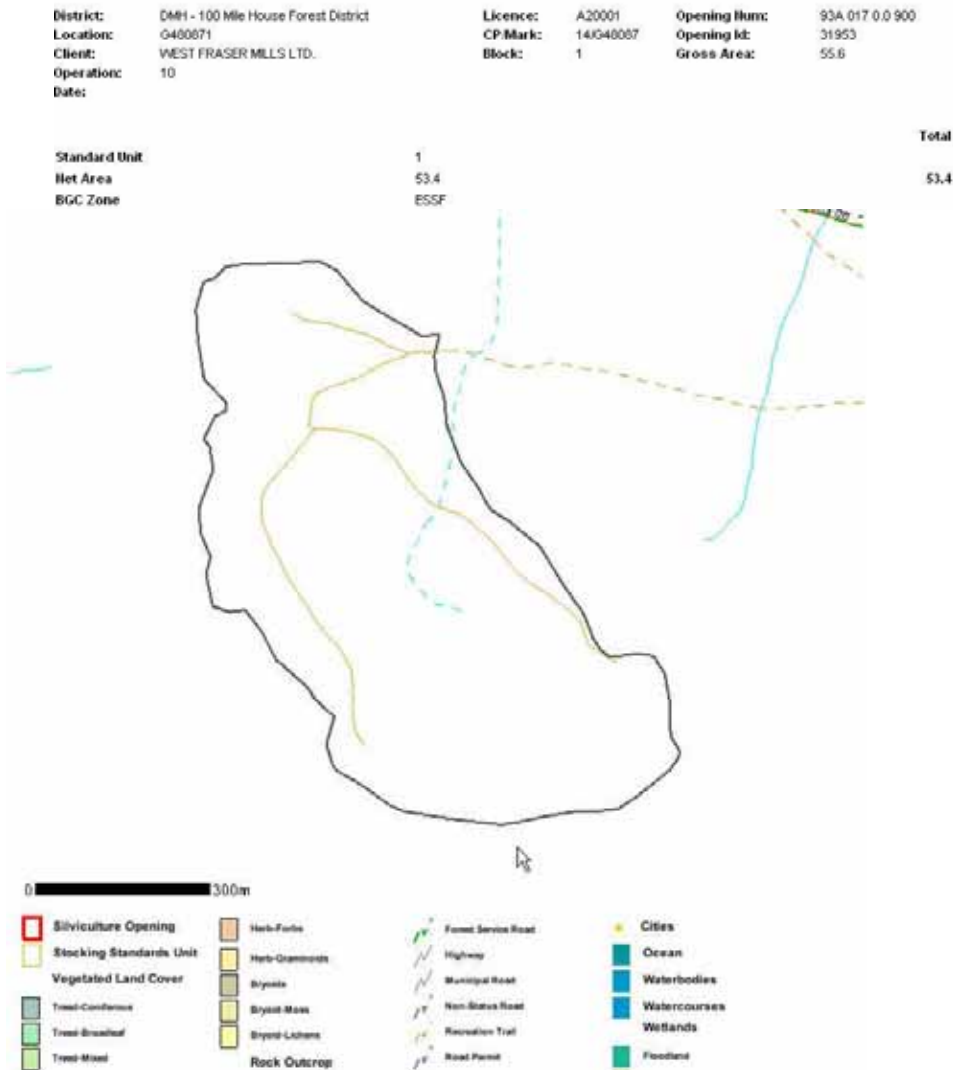
Go Clear SP Map **Map View** History FTA

The screenshot shows the MapView application interface. At the top, there is a navigation bar with buttons for 'Go', 'Clear', 'SP Map', 'Map View', 'History', and 'FTA'. The 'Map View' button is circled in red. Below the navigation bar is a map of a forest area with various layers and a legend on the right. The legend includes categories like 'Base Map', 'Grids and Images', 'Admin Boundaries', 'Silviculture', 'Land Cover', 'BioGeoClimatic', 'Forest Tenure', 'Recreation', 'Genetic Resources', 'Forest Health', 'Wildlife', 'Roads', and 'Other Tenure'. The map shows a large area with various boundaries and labels, including '93 G 000 02', '93 G 000 03', '93 G 000 04', '93 G 000 05', '93 G 000 06', '93 G 000 07', '93 G 000 08', '93 G 000 09', '93 G 000 10', '93 G 000 11', '93 G 000 12', '93 G 000 13', '93 G 000 14', '93 G 000 15', '93 G 000 16', '93 G 000 17', '93 G 000 18', '93 G 000 19', '93 G 000 20', '93 G 000 21', '93 G 000 22', '93 G 000 23', '93 G 000 24', '93 G 000 25', '93 G 000 26', '93 G 000 27', '93 G 000 28', '93 G 000 29', '93 G 000 30', '93 G 000 31', '93 G 000 32', '93 G 000 33', '93 G 000 34', '93 G 000 35', '93 G 000 36', '93 G 000 37', '93 G 000 38', '93 G 000 39', '93 G 000 40', '93 G 000 41', '93 G 000 42', '93 G 000 43', '93 G 000 44', '93 G 000 45', '93 G 000 46', '93 G 000 47', '93 G 000 48', '93 G 000 49', '93 G 000 50', '93 G 000 51', '93 G 000 52', '93 G 000 53', '93 G 000 54', '93 G 000 55', '93 G 000 56', '93 G 000 57', '93 G 000 58', '93 G 000 59', '93 G 000 60', '93 G 000 61', '93 G 000 62', '93 G 000 63', '93 G 000 64', '93 G 000 65', '93 G 000 66', '93 G 000 67', '93 G 000 68', '93 G 000 69', '93 G 000 70', '93 G 000 71', '93 G 000 72', '93 G 000 73', '93 G 000 74', '93 G 000 75', '93 G 000 76', '93 G 000 77', '93 G 000 78', '93 G 000 79', '93 G 000 80', '93 G 000 81', '93 G 000 82', '93 G 000 83', '93 G 000 84', '93 G 000 85', '93 G 000 86', '93 G 000 87', '93 G 000 88', '93 G 000 89', '93 G 000 90', '93 G 000 91', '93 G 000 92', '93 G 000 93', '93 G 000 94', '93 G 000 95', '93 G 000 96', '93 G 000 97', '93 G 000 98', '93 G 000 99', '93 G 000 100'. The map also shows a scale of 1:5,200 and a map test button. The bottom of the screen shows the Windows taskbar with the start button and several open applications.

10.2 SP Map from ROSC with other GML Submissions

For ROSC-converted openings, there are no internal SU boundaries within the opening; detailed SU line work will have to be obtained from the licensees.

But for this opening, there had been subsequent forest cover submission as this can be observed in the Mapview image and demonstrate the differences based on data source. The most recent data submitted by the licensee is considered to be the most accurate. If an accurate SP map is required, the SP map would have to be obtained through the district's opening file and/or be requested from the licensee.



RESULTS & Mapview Learnline Module Handout

RESULTS Linkage to Mapview

On the General Opening Inquiry Tombstone information, select the **Map View** to enter into Mapview for the specific RESULTS referenced opening.

Application Home

RESULTS

Search Inbox **Openings** Data Submission Admin Event Tracking Reports

Opening Inquiry Multi-Tenure Stocking Standards Activities Forest Cover Milestones Land Status Attachments

Org Unit: DMH - 100 Mile House Forest Di Status: APP

Client: WELDWO 03 Name: WELDWOOD OF CANADA LIMITED

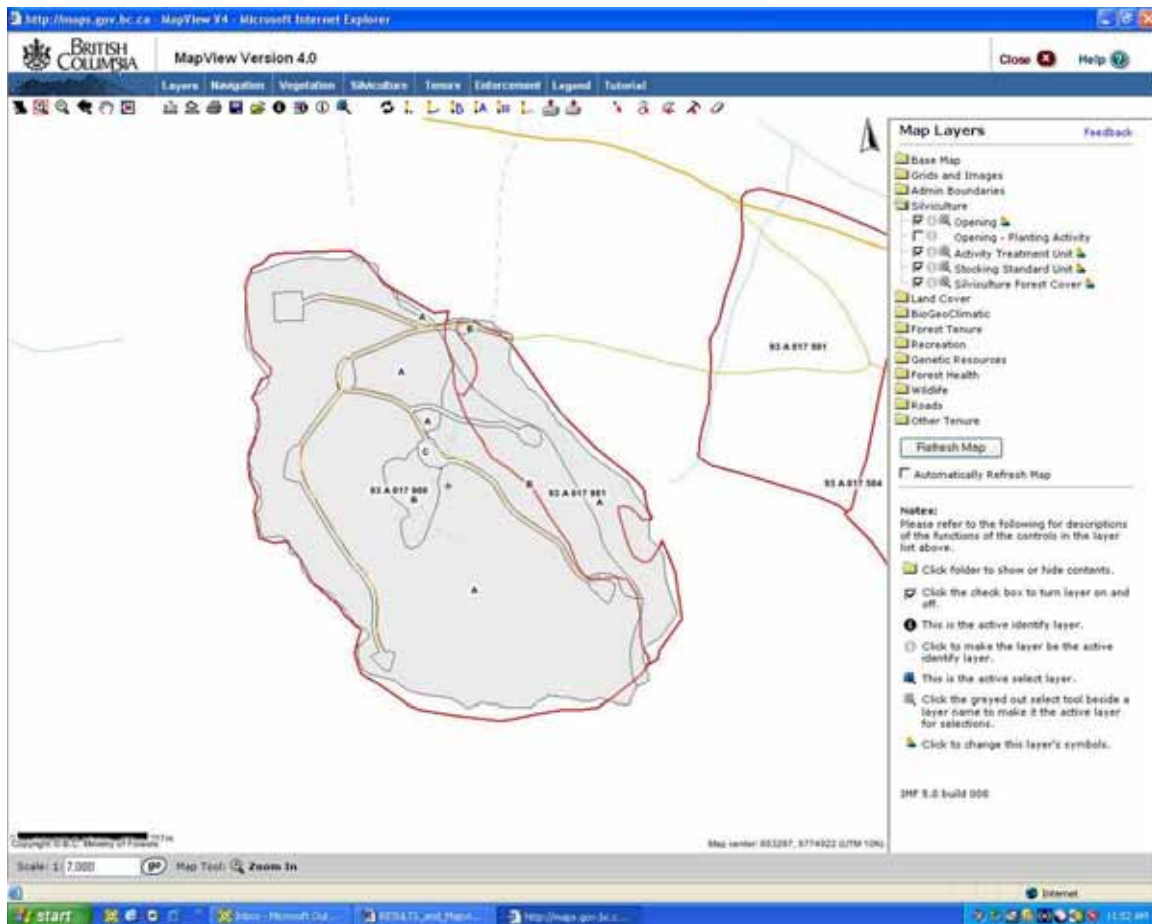
Opening: 93A 017 0.0 900 Opening Id: 31953 Licensee Opening Id:

Licence No: A20001 CP: 14 Timber Mark: G48087 Cut Block: 1

Exhibit A Area (ha): 45.7 Disturbance Gross Area (ha): 55.6 HAR (ha): 53.4 Forest Cover Area (ha): 48.0

Go Clear SP Map **Map View** History FTA

Note the differences between the ROSC created opening boundary in red and the forest cover in grey.



10.3 SP Map from ROSC with no submission GML submission

SP Map ROSC

Application Home

RESULTS

Search | Inbox | Openings | Data Submission | Admin | Event Tracking | Reports

Opening Inquiry | Multi-Tenure | Stocking Standards | Activities | Forest Cover | Milestones | Land Status | Attachments

RESULTS335 - Site Plan Map

[Back](#)

| | | | | | |
|------------|--------------------------------------|----------|------------|---------------|----------------|
| District: | DJA - Fort St. James Forest District | Licence: | A40873 | Opening Unit: | SRH 008 0.0 20 |
| Location: | FJ3361125 | CP Mark: | 361.FJ3361 | Opening ID: | 81663 |
| Client: | CANADIAN FOREST PRODUCTS LTD. | Block: | 125 | Gross Area: | 58 |
| Operation: | 01 | | | | |
| Date: | | | | | |

| Standard Unit | A | B | C | Total |
|---------------|------|------|-----|-------|
| Net Area | 20.9 | 21.9 | .6 | 51.4 |
| BGC Zone | SBS | SBS | SBS | |

[Back](#)

RESULTS Linkage to Mapview

Application Home

RESULTS

Search Inbox Openings Data Submission Admin Event Tracking Reports

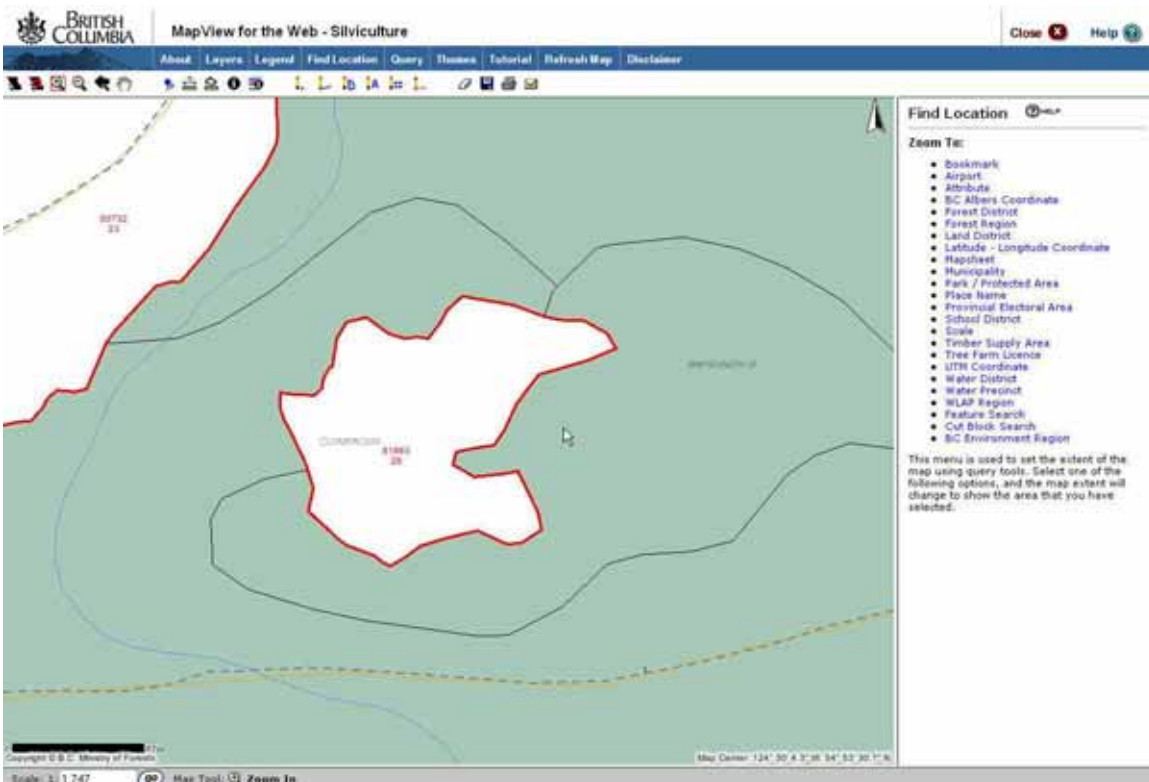
[Opening Inquiry](#) [Multi-Tenure](#) [Stocking Standards](#) [Activities](#) [Forest Cover](#) [Milestones](#) [Land Status](#) [Attachments](#)

| | | | | | | | |
|----------------------|------------------------------|------------------------------|-------------------------------|--------------|--------|-------------------------|------|
| Org Unit: | DND - Nadina Forest District | Status: | APP | | | | |
| Client: | CANFOR 26 | Name: | CANADIAN FOREST PRODUCTS LTD. | | | | |
| Opening: | 93E 076 0.0 50 | Opening Id: | 81833 | Licensee: | | | |
| Licence No: | A16828 | CP: | 707 | Timber Mark: | EM8707 | Cut Block: | 2 |
| Exhibit A Area (ha): | 64.2 | Disturbance Gross Area (ha): | 64.2 | IAR (ha): | 52.6 | Forest Cover Area (ha): | 64.3 |

Go Clear SP Map **Map View** History FTA

Selecting on **Map View** will bounce you into the location of the opening at the appropriate viewable scale in Mapview.

Notice that in this example, there is no internal line work available since no other spatial information exist for this opening.



10.4 Unsuccessful ROSC – RESULTS SP Image

If you ever are working with openings where no spatial information exist, when you select the SP Map Button in the Opening Inquiry Screen, the following image will appear.

RESULTS records that did not successfully convert through the ROSC conversion and have no subsequent .gml submissions will not be in Mapview & the LRDW.

This is why queries should examine in RESULTS in conjunction with spatial outputs to understand the level of data completeness reflected in the spatial queries.

The screenshot shows the RESULTS application interface. At the top, there is a green header with "Application Home" and "RESULTS". Below the header is a navigation menu with buttons for "Search", "Inbox", "Openings", "Data Submission", "Admin", "Event Tracking", and "Reports". A "Back" button is located on the left side. The main content area displays the following information:

| | | | | | |
|-------------------|--------------------------------|------------------------|---------|---------------------|---------------|
| District: | DKA - Kamloops Forest District | Licence: | A28702 | Opening Num: | 921087 0.0 35 |
| Location: | TRANQUILLE CRK | CP Mark: | AKK2298 | Opening Id: | -683100000 |
| Client: | REGIONAL MANAGER SOUTHERN | Block: | | Gross Area: | 10 |
| Operation: | 00 | | | | |
| Date: | | XML Load Failed | | | |

| | | Total |
|----------------------|-----|--------------|
| Standard Unit | 1 | |
| Net Area | 0 | 0.0 |
| BGC Zone | IDF | |



11. What's New – Mapview 4

Mapview 4 is scheduled for production delivery in November 2005. The most significant changes are:

- all layers can be accessed by all business area themes to encourage cross information sharing capabilities;
- further separation of business themes/functions to allow for customized functions/themes common to respective business areas; and,
- enhancements to printing capabilities

Gradual work will be required to align RESULTS to tie to Mapview 4. Currently, RESULTS interface and CRS queries are still tied to the previous version of Mapview. Anticipated time for having RESULTS tied to the Mapview 4 will be in December 2005 or early in 2006.

12. Overview of Mapview

There are multiple versions of Mapview that have been “customized” to display different types of information for different business applications (eg. SeedMap).

This document deals with Mapview 4 and provides focus on the functions within the Silviculture Tab.

The following sections provide a summary of key Mapview functions, organized by groupings as they appear on the screen.

12.1. Tab Orientation




Tabs Selections

| TAB | Description of function |
|--------------|---|
| Layers | Set Layers available to view |
| Navigation | Find a specific location of interest based on common search criteria |
| Vegetation | Customized Vegetation-Forest Cover theme with predefined layers and canned spatial queries. |
| Silviculture | Customized Silviculture Theme based on RESULTS data predefined layers and canned spatial queries. |
| Tenure | Customized Tenure Theme based on FTA data predefined layers and canned spatial queries. |
| Enforcement | Customized compliance and enforcement theme based on multiple business applications and canned spatial queries. |
| Legend | Displays Map Legend defaulted to which layers that are selected |
| Tutorial | Mapview tutorial materials |

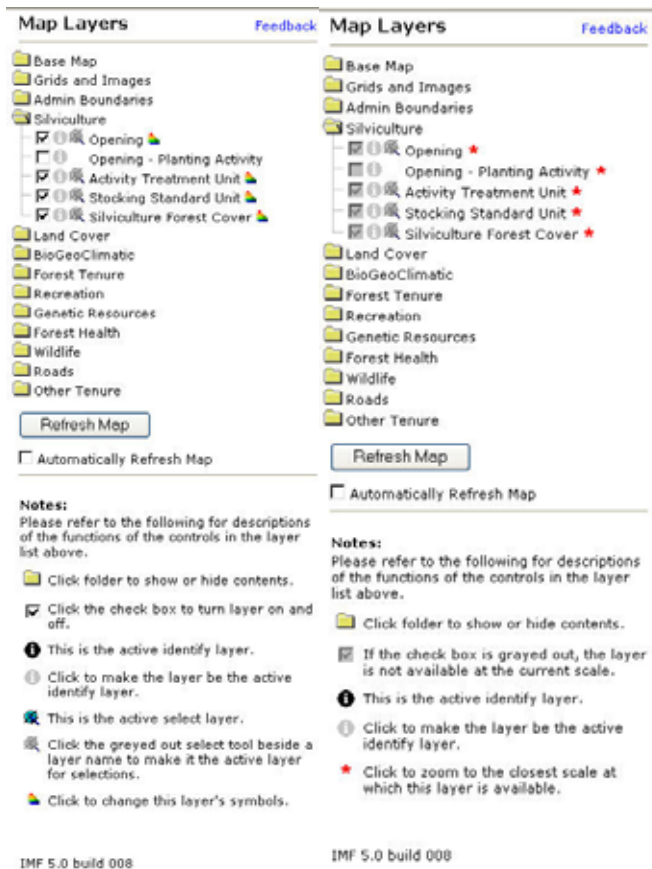
RESULTS & Mapview Learnlinc Module Handout

12.1.1 Layers (Tab)

You can add or remove layers on the map display through the use of Layers Tab.

This can be done via the check boxes. The  File folder icon indicates that there are subdirectory of layers to view. You can click on this to view more details and unclick to collapse the directory.












When you enter into Mapview from RESULTS, you are defaulted to Mapview for the Silviculture Theme. This means that there has been a pre-defined set RESULTS layers along with key others will be automatically displayed. The images below show the “defaulted” layers that are available.




Note that in some cases, depending on your current scale, some information cannot be displayed, as indicated in the red star. If this occurs, you can place your cursor next to the start go get the scale required to view the appropriate layer of interest.

Layers Menu Functions

Layer Menu Functions

| | |
|---|--|
|  | Closed file folder – click to open to show displayable layers |
|  | Opened file folder with show displayable layers |
|  | Checked box to activate layer for display Can only use active identify layer along with activated display layer |
|  | Not activated – layer not displayed |
|  | Displays as active identify layer Can only have one active identify layer at one time This is used in conjunction with the  Identify or  Drill Down Identify icon in the Toolbar to get information on an object on the map. |
|  | Not currently as active layer displayed |
| Refresh Map | Refreshes map based on most recent selections on the map layer menu when selected. Note that there is a check box to automatically refresh map, but this will be based on each change done on the layer menu. |
|  | Sometimes, the layers cannot be shown in the scale displayed. But selecting on the star next to desired layer, Mapview takes you to the appropriate scale so that the objects in the layer can be viewed. |
|  | Change the appearance of layer – both polygon and layer label symbolization |
|  | Turn on all layers in the folder |

The new version of Mapview contains many more available layers than previous. [Appendix B](#) provides summary of all layers available. These can be displayed with silviculture theme by going to Layer Tab and  activating the layer(s) and then selecting the **Refresh Layer**.

Definition of the layer is currently accessed through LRDW data definitions at: <http://srmapps.gov.bc.ca/metastar/home.do> (look at Discover Data).

In Mapview 4, you are able double click on the layer name to access “Metastar” which is an Mapview’s online spatial data dictionary. No definitions have yet been added as this is a “work in progress”.

Layers that are missing that would be useful for planning and reporting are Landscape Planning Units, Forest Stewardship Plans and Forest Development Unit within a FSPs, and Forest Development Plans. As more people work with these, they can provide input on critical missing layers that would be useful to use in Mapview. Overtime, these additional layers, if available in the LRDW, can be loaded into Mapview.

12.1.2 Navigation

Navigation provides multiple methods to locating to an area of interest. Default screen available upon Tab selection is as follows:

Navigation

[Display Navigation Map](#)

-  **Navigation Links:**
- [Zoom to Bookmark](#)
 - [Zoom to Mapsheet](#)
 - [Zoom to Forest Region](#)
 - [Zoom to Forest District](#)
 - [Zoom to BC Albers Coordinate](#)
 - [Zoom to Geographic Coordinate](#)
 - [Zoom to UTM Coordinate](#)
 - [Zoom to Scale](#)
 - [Cut Block Search](#)
 - [Find Feature](#)
 - [Find Place Name](#)
 - [Find Municipality](#)

Note that **Find Feature** provides more options that are more detailed.

Feature Search

Select the feature to search for from the feature type box, fill in the in the values to search with, then press the Search button. If the feature is found in the map will zoom to the extent of the feature.



| Silviculture-related Feature Search | Entry parameters |
|-------------------------------------|---|
| Cutblock | Forest File Cutting Permit Cutblock |
| Cutting Permit | Licence Cutting Permit |
| Opening Number | Mapsheet Grid Mapsheet Letter Mapsheet Square Opening Number |
| Timbermark | Timbermark |
| Opening ID | Opening ID |
| Veg Opening (Veg Layer) | Map ID Opening Number |

12.1.3 Legend

This displays a legend representation for the displayed layers. This is a system-default feature and you cannot customize the legend.



















12.2 Tool Bar Icon Reference



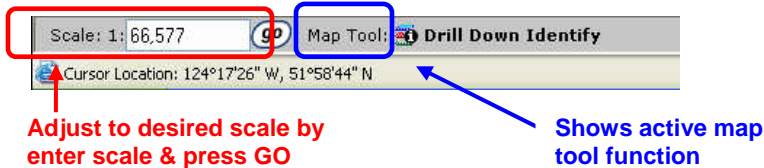
| Icon | Icon Name | Function |
|------|----------------------|---|
| | BC Extent | Zooms out to provincial scale |
| | Zoom In | After selecting , press left mouse button to window the extent on map you wish to magnify |
| | Zoom Out | After selecting , press left mouse button to window the extent on map you wish to zoom out to |
| | Previous Zoom | Takes you previous scale |
| | Pan | After selecting , press left mouse button to move the map to another area. Pan enables you to see at the same scale but in another location of the map. |
| | Index Map | Index map shows current map location relative to BC Main map. You are able to click the index map on the right display to zoom to other areas of the province. |
| | Line Measurer | Click to create series of points on the map. Right display window will provide total distance of the points drawn. |
| | Area Measurer | Click to create polygon area on map. Right display window will provide cumulated area of polygon drawn. |
| | Print | Creates a .pdf output based on the working image. Can add title, resolution quality, size of paper, and scale. Once created, a pdf can be accessed, printed, and save. |
| | Save Session | Provides a URL with all the Mapview settings, layers identified. You can use this to go back to a session you spent time configuring. Note that this link is stored at the MSRM Mapview application server and is kept only for 90 days if not accessed. Suggestion to add to Internet Explorer Favorites The option to email URL is available, but not working at the time of writing up this manual. Testing pending |
| | Upload Saved Session | Testing pending |
| | Identify | Looks for an attribute record for an object you click onto which is "activated" |
| | Drill Down Identify | Looks for any available for records that you click onto. Takes more time for processing to return results. |

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| Icon | Icon Name | Function |
|---|-------------------------------|---|
|  | Save Session | Provides a URL with all the Mapview settings, layers identified. You can use this to go back to a session you spent time configuring. Note that this link is stored at the Mapview application server and is kept only for 90 days if not accessed. Suggestion to add to Internet Explorer Favorites The option to email URL is available, but not working at the time of writing up this manual. |
|  | e-mail | Function not working properly. Use print and then can do work around via File/Send/ using browser |
|  | Identify Radius | Identify item that is within the point of radius |
|  | Selection Set | Based on items selected, can create Excel spreadsheet, GML document and/or Default Report. |
|  | Refresh Map | |
|  | Point Markup | Adds a point to the map image to the map |
|  | Line Markup | Adds line to the map image based on series of points specified by user |
|  | Polygon Markup | Adds a polygon based on series of points specified by user |
|  | Text Markup | Adds text onto the map location specified by the user |
|  | Grid Markup | Adds a grid to the entire map image based on the grid resolution specified by user |
|  | Erase Markup | Erases the specified added object (point, line, polygon, grid) added onto the map image. This removes one object at a time. |
|  | Upload Shape File | |
|  | Download Markup as Shape File | |
|  | SOE-Point | Provides spatial overlay query based on pre-designed spatial query to identify potential conflicts based on point specified |
|  | SOE-Line | Provides spatial overlay query based on pre-designed spatial query to identify potential conflicts based on line specified |
|  | SOE-Polygon | Provides spatial overlay query based on pre-designed spatial query to identify potential conflicts based on polygon specified |
|  | Detect Archeology Site | Provides spatial overlay query to confirm the existence of archeology site for the specified area of interest |
|  | Clear Section | Removes all added graphics in the current session. |

12.3 Screen Navigation – Footer



12.3.1 Scale

At the bottom of the screen you have the capability of adjusting your viewing scale.

By entering a larger number and then **GO** button, you view fewer details on your image (eg. 1:100,000 means you are seeing 1/100,000 representation of actual size).

Conversely, if you enter a lower number and then GO button, you are seeing more details on your image (eg. 1:1,000 means that you are seeing 1/1,000 representation of actual size).


12.3.2 Map Tool

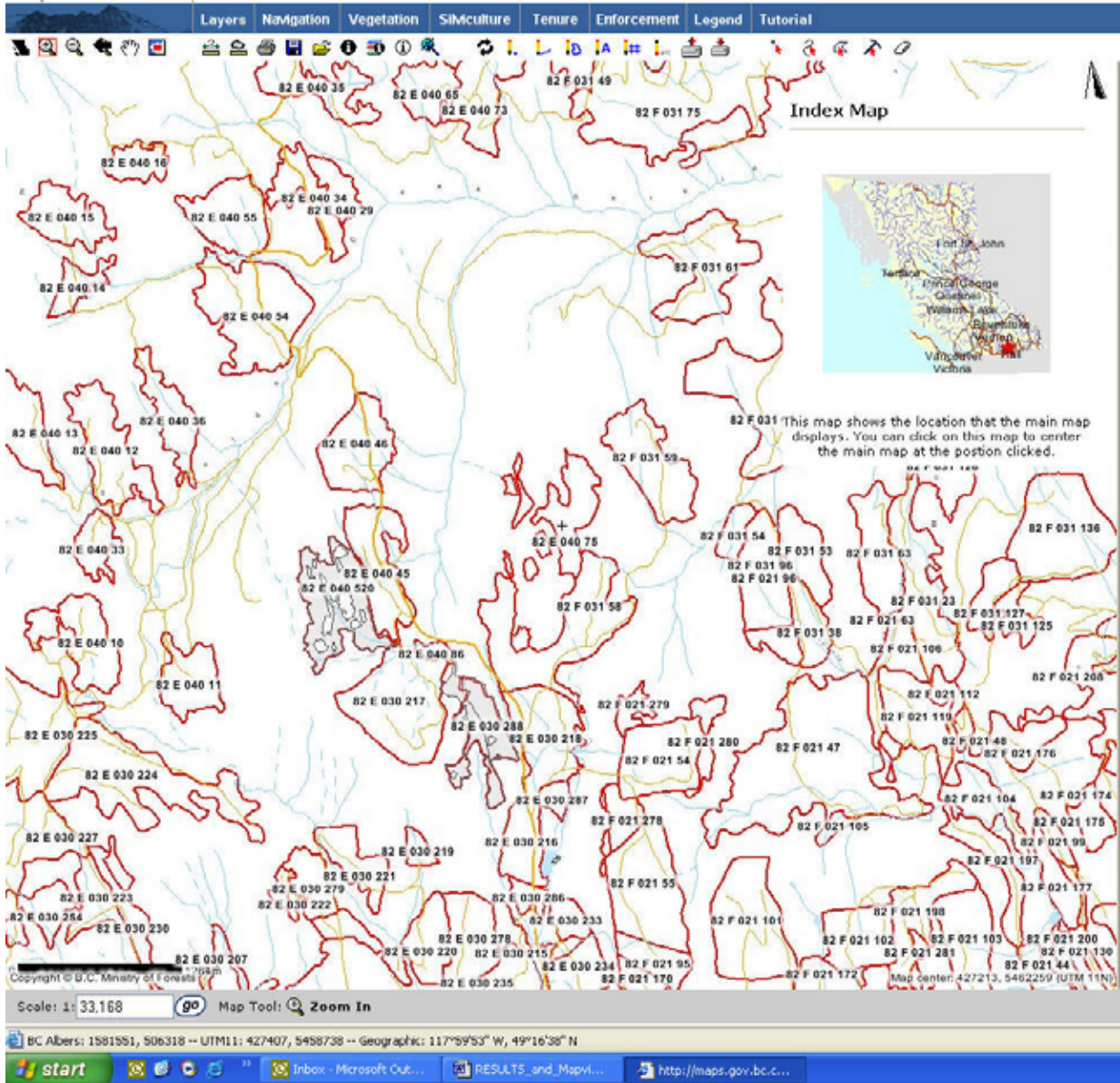
This shows you which icon tool is currently activated when you click in your map image space.

12.4 Toolbar – by Functions

Functions available the toolbar are detailed in the below sections.


12.4.1 Index Map


Select  Index Map Icon in the tool bar, and then an index map will appear with a red star to provide you an approximation of where you are. Note that if you can click anywhere in the in the Index Map and Mapview will take you to that approximate location in the current scale.



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12.4.2 Measure Line

Select the  Measure Line Icon in the Toolbar. Select a location on the Map Window. Then click on the left-button of your mouse to create a point. Continue to select as many points for measurement. Once finished the total distance and true course is provided.





Measure Tool

This document shows the positions of the points that you have clicked on the map using the measure tool, and reports the great circle distance between them.

| | |
|--------------------|-------------------------------------|
| Position | 115° 11' 48.0" W 50° 23' 47.1" N |
| Position | 115° 11' 30.9" W 50° 23' 45.4" N |
| Distance | 341.2 m |
| True Course | 99.0° |

12.4.3 Measure Area

Select the  Measure Area Icon in the Toolbar. Select a location on the Map Window. Then click on the left-button of your mouse to create the beginning of the polygon. Continue to select as many points to continue drawing a polygon. Once finished creating the polygon then double click to close the polygon to get the total area within the polygon.



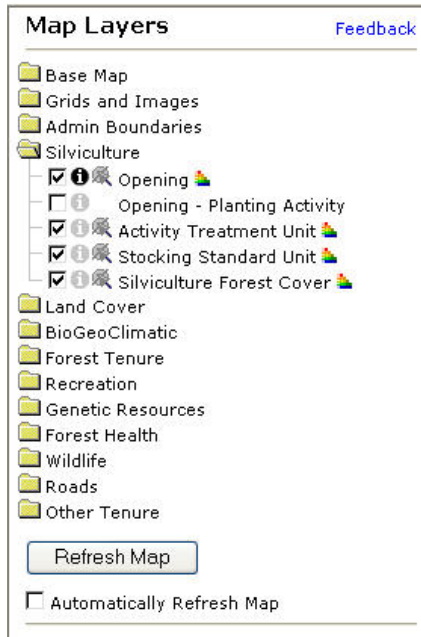
Measure Tool



This document shows the positions of the points of a polygon that you have clicked on the map using the area measure tool, and reports the area of the polygon.


| | |
|------------------|-------------------------------------|
| Area | 19.2 hectares |
| Point 1: | 115° 11' 47.8" W 50° 23' 47.8" N |
| Point 2: | 115° 11' 44.2" W 50° 23' 53.5" N |
| Point 3: | 115° 11' 42.3" W 50° 23' 56.9" N |
| Point 4: | 115° 11' 39.4" W 50° 23' 57.8" N |
| Point 5: | 115° 11' 37.8" W 50° 23' 57.7" N |
| Point 6: | 115° 11' 35.4" W 50° 23' 58.0" N |
| Point 7: | 115° 11' 34.2" W 50° 23' 57.5" N |
| Point 8: | 115° 11' 31.2" W 50° 23' 55.9" N |
| Point 9: | 115° 11' 29.6" W 50° 23' 53.9" N |
| Point 10: | 115° 11' 30.2" W 50° 23' 51.0" N |
| Point 11: | 115° 11' 30.9" W 50° 23' 46.5" N |

12.4.4 Identified Layer & Drill Down


Identify layer and drill down allows users to obtain information for a map item or layers on the display. Only activated/checked layers are available for identify layer and/ and drill down. This can be controlled via the Layer tab.



Note that only one identified layer can be selected at any given time. By placing the highlighted the grey  to turn it black .

 Identify offers the greatest level of detail of information for the specific layer selected.

 Drill down provides summarized information detail for all layers activated.

See sample output – note that the output depends on which layers have been activated.  contains more detailed information that can be opened.

Identify (Detailed)

Drill Down (General)

Opening Information

Opening Number: 48
Mapsheet: 082J044
Admin District: Rocky Mountain Forest District
Opening ID: 81912
Location Name: NORTH WHITE RIVER

Prescription

Opening Category: FTML

Tenure Prescription

Forest File ID: A18978

Standards Prescription

Standards Unit ID: 1
Standards Unit ID: 2

Activity Treatment Units

Base Code: SU
Base Code: PL
Base Code: DN
Base Code: DN

Forest Cover

Polygon Number: A
Polygon Number: A
Polygon Number: A
Polygon Number: R
Polygon Number: Z

Land Status

NP Total: 1.7
NSR Total: 0.0
IMM Total: 77.8
MAT Total: 0.0
NC BR Total: 0.0
FG Total: 0.0

Identify Results

Coordinate Position

BC Albers: 1752140, 661227
Geographic: 115° 21' 47" W
 50° 27' 25" N

Vegetated Land Cover

Map ID: 082J044
Polygon ID: 291
Opening Number: 48
Inventory Std CD: F
Polygon Area: 79.48
Non Productive CD: 0
Input Date: Oct 11, 2001
Coast Interior CD: I
BCLCS Level 1: V
BCLCS Level 2: N
BCLCS Level 3: U
BCLCS Level 4: SL
BCLCS Level 5: SP
Project: Incosada Rollover
Date of Photography: Dec 31, 1999
Special Cruise Number: 131
Inventory Region: 21
Compartment: 28
FIZ Code: F
Capture Code: digitized
MD Data Accuracy CD: 1
Observation Date: Oct 14, 2002
Commet: Incosada data conversion from FC1

Silviculture

Polygon ID: 291
Opening Number: 48
FIZ Code: F

Opening

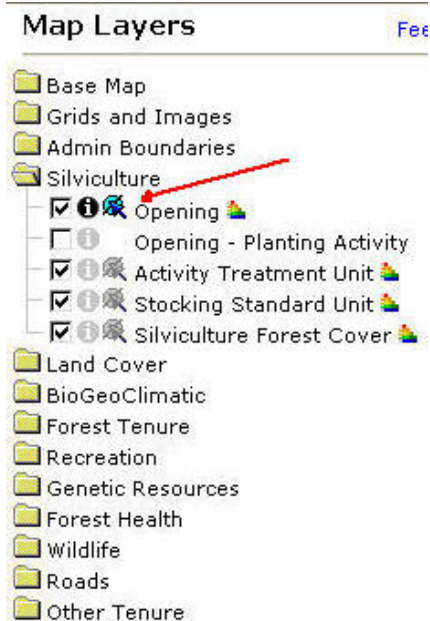
Opening ID: 81912
Revision Count: 0


BCGS Grid

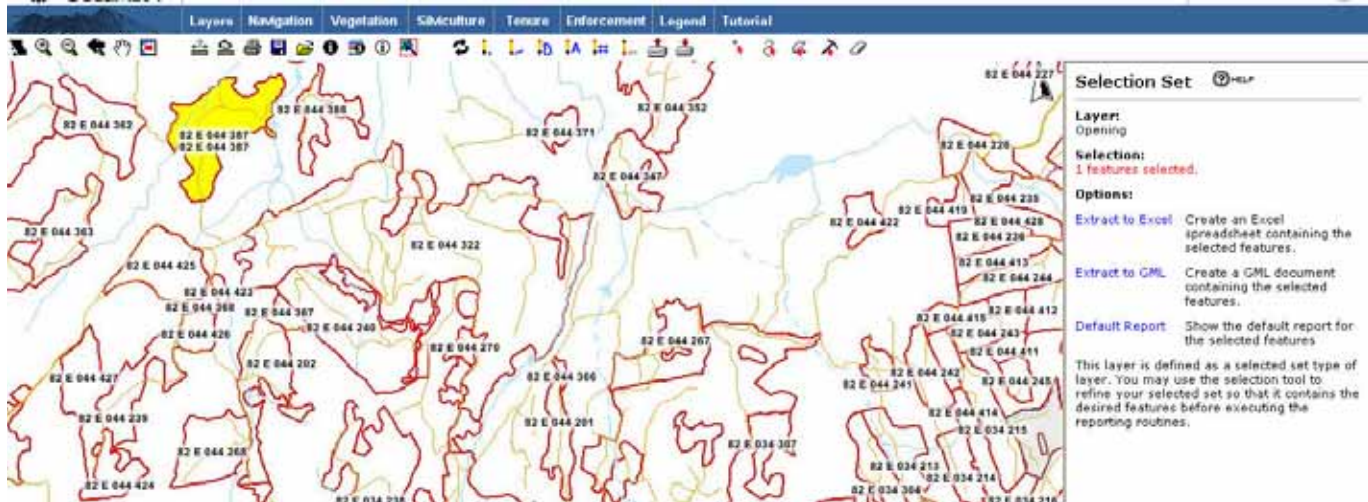
Map Tile: 082J044

12.4.5 Selection Set

Selection set allows the users to pick layer items of interest and Extract to Excel, Extract to GML or create a Default Report. Selection set option must be activated via Layers. Only one layer can be activated at any given time.



Once the Layer is activated, Use the  Selection Set Icon from the toolbar and then point to the feature(s) of interest on your map.



You can continue to add any other items on the view extent. As you add more items, you can control how each item is to be incorporated to your selection.

Selection Set

Layer:

Opening

Just Selected:

1 features selected.

Previously Selected:

1 features selected.

Options:**New**

Sets the selected set of this layer to the features just selected.

Add

Adds the features just selected to the set of features that were previously selected.

Subtract

Removes the features just selected from the set of features that were previously selected.

Subset

Select only the features just selected that are within the set of features that were previously selected.

Unchanged

Leaves the selected set as it was, ignoring the selection that you just made.

Clear

Unselects all the selected features in this layer.

This layer is defined as a selected set type of layer. You may use the selection tool to refine your selected set so that it contains the desired features before executing the reporting routines.

Once you are complete with the selection of items, you have the option to create an extract to Excel, Extract to GML, or to a Default Report. No illustrations are provided, but you can explore this function on your own. This function would be useful if you need to pass along spatial data along to someone to use or process.

12.4.6 Graphics

Mapview offers the ability to add graphics to your working map. Features include: point, lines, polygons, grids, annotation. Upon selection of the feature of interest, you point and click the graphic item you are interested in. Options are available for you on how you want the display to appear on the map such as color, line weight, shading, pattern, etc. to customize your map output.

12.4.7 Upload Shape File

This version allows to upload shape file from another source and to draw the image to view within Mapview4 spatial data.

Upload Shapefile

Creates a layer on the map from a shapefile that you upload from your computer. You can upload shapefile sets that are a maximum of 1,000,000 bytes in size.

Select the .dbf and .shp files from a shapefile set from your local disk. Make sure that you choose the file with the correct extension in the entry areas below.

Shapefile Attribute File (**dbf**):

Shapefile Spatial File (**shp**):

Title for layer: The title is used to list your layer in the layers list. It should not be the same as any other existing layer on this site.

Symbol color:

Layer position: Use this setting to set the drawing order of your layer.

12.4.8 Save User Markup

Mapview provides the ability to save any of the Markup that you have created to a shape file. This coupled with export capability to GML can provide custom report to other's who may want to use import this information to their own GIS system.

12.4.9 Saving your work

You have the capability to save your map as a URL. This url can be saved as a favorite under your web browser and can also be sent to someone else who has access to Mapview.

It is recommended that you save often as your Mapview session will timeout if there is any extended duration of inactivity. When the session times out, all information in terms of extent, location, annotation etc. will be lost and you will have to start over. Currently, it the default for session to timeout is 10 minutes.

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Select  **Save Session** from your Toolbar.

Save Session

Your session has been saved. You can access your session again by using the following URL:

<http://maps.gov.bc.ca/imf406/imf.jsp?session=:>

Note: This session information is stored on the mapping application server, and will be retained as long as you continue to use it. Sessions that are not accessed for 90 days will be automatically removed.

Select **Add to Favorites** Button. A default Map session cryptic number is given. You can rename as needed and then press **OK** to save the URL. Then under whichever Favorite location/folders you created, you can go into Browser and access the link directly to bounce to Mapview with all the settings for the map you created.

Add Favorite

Internet Explorer will add this page to your Favorites list.

Make available offline

Name:

Note that if you do not use this link for 90 days, the session information will be removed since it is stored at Mapview application server.



RESULTS & Mapview Learnlinc Module Handout

E-mail the Map Image

Fill out the form below and click the "Send" button. Required fields are marked with an asterisk.

To send your map to multiple recipients, separate their e-mail addresses with a comma.

Put your e-mail address in the "from" field. If the message cannot be delivered to a recipient, a notice will be sent to the "from" address. This address also tells the recipient who sent the map.

* E-mail To:

* E-mail From:

Attachment format:

Adobe Acrobat (*.pdf) v
 Source Image (*.img)
 Adobe Acrobat (*.pdf)

Send

12.4.10 Printing & Sending Your Map

Select the  Print Icon and provide the desired output specifications:

| Map Output Specifications | Options |
|---------------------------|--|
| Map Title | Enter your own title |
| Template | Default Landscape Template – 8.5 x 11 Default Landscape Template – 11 x 17 Default Portrait Template – 8.5 x 11 Default Portrait Template – 11 x 17 LWBC Tenure Template – 8.5 x 11 Portrait LWBC Tenure Template 8.5 x 11 Landscape LWBC Tenure Template 11 x 17 Portrait LWBC Tenure Template 11 x 17 Landscape |
| Scale | Current extent 1:5 000; 1:10 000; 1:20 000;1:50 000 1:100 000; 1:250 000; 1:1 000 000; 1:2 500 000; 1:5 000 000 |

Enter selection for template, scale and map title and then select OK. Once generated, you can select the open map.

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Create a PDF Map

Template:
Default Landscape Template - 8.5x11

Scale:
Current extent

Map Title
Area of interest

OK

Notes:

It may take up to a minute to create the map document. Please be patient.

The map will be centered at the same location as the map shown beside this form.

The map will be generated and shown in Adobe Acrobat (.pdf) format. If you need to obtain the latest free Adobe Acrobat Reader, you may click on the link on the page that is displayed when the map is ready.

After the map has been generated, you may either save the PDF file to your computer or use the Acrobat Reader program to print out the map. When printing the map, be sure to print it at the same size that was specified above so the scale will be accurate.

Create a PDF Map

Map created successfully.

[[open map](#)]

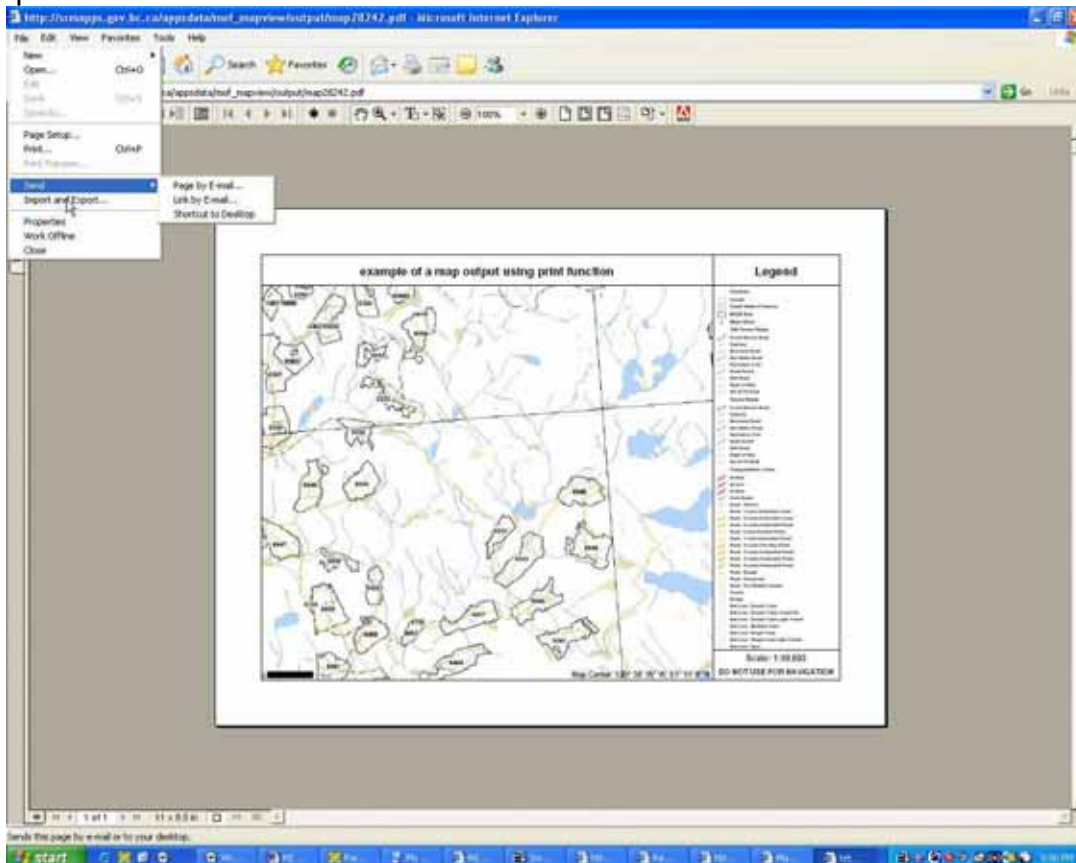
To save the map document, right click on the link above, then click "Save As"

The map is in Adobe Acrobat PDF format. You probably have the Adobe Acrobat Reader installed on your computer but if not, you can download it for free from Adobe.

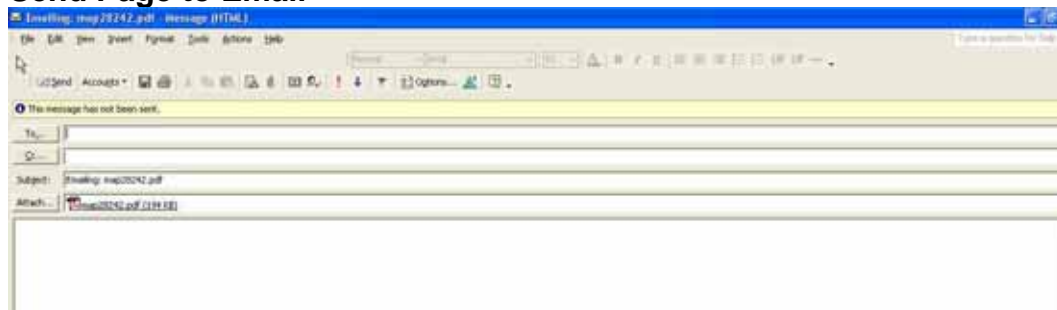


Sample Map Image will appear.

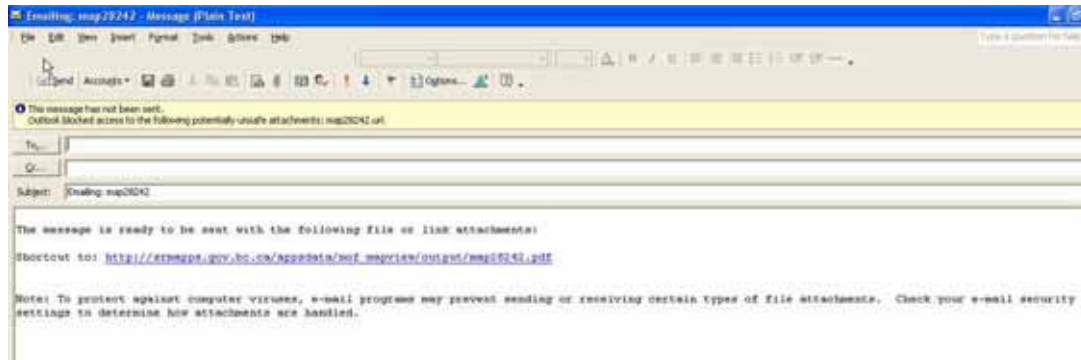
In this Acrobat window, you have the option to either send the URL link or the .pdf file to someone as an attachment via e-mail.



Send Page to Email



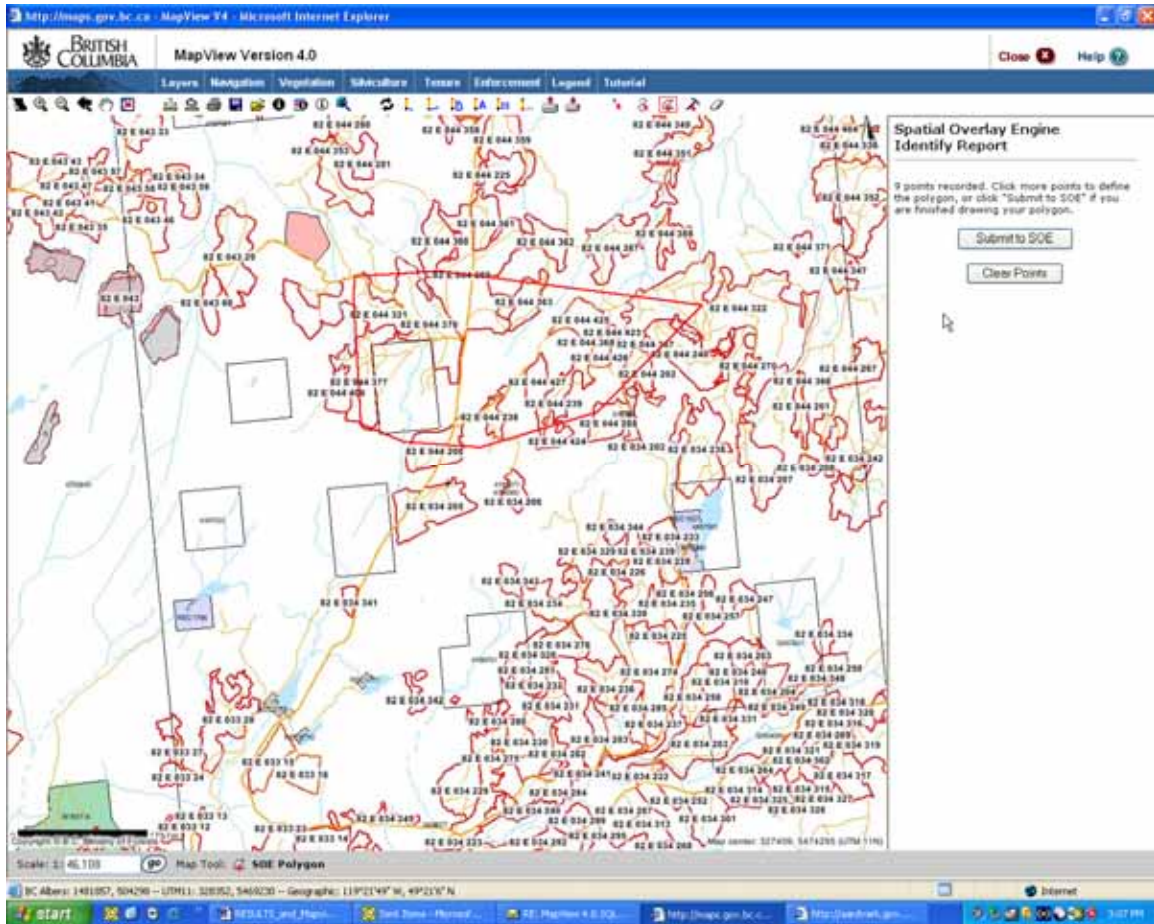
Send Link to Email



12.4.11 Spatial Overlay Engine (SOE)

Spatial Overlay Engine provides ability to run a spatial report on areas which intercept the drawn point, line, or polygon specified by user. The layers that are queried have been pre-programmed into Mapview. The general process includes specifying the desired SOE function, identify location(s) on the map and then running the **Submit to SOE** report. There are additional features where you can also specify a buffer area that is also included in the spatial overlay analysis. Typically, this report is used for “stating” areas to identify potential conflicts.

RESULTS & Mapview Learnline Module Handout



Spatial Overlay Engine

Query polygon recorded.

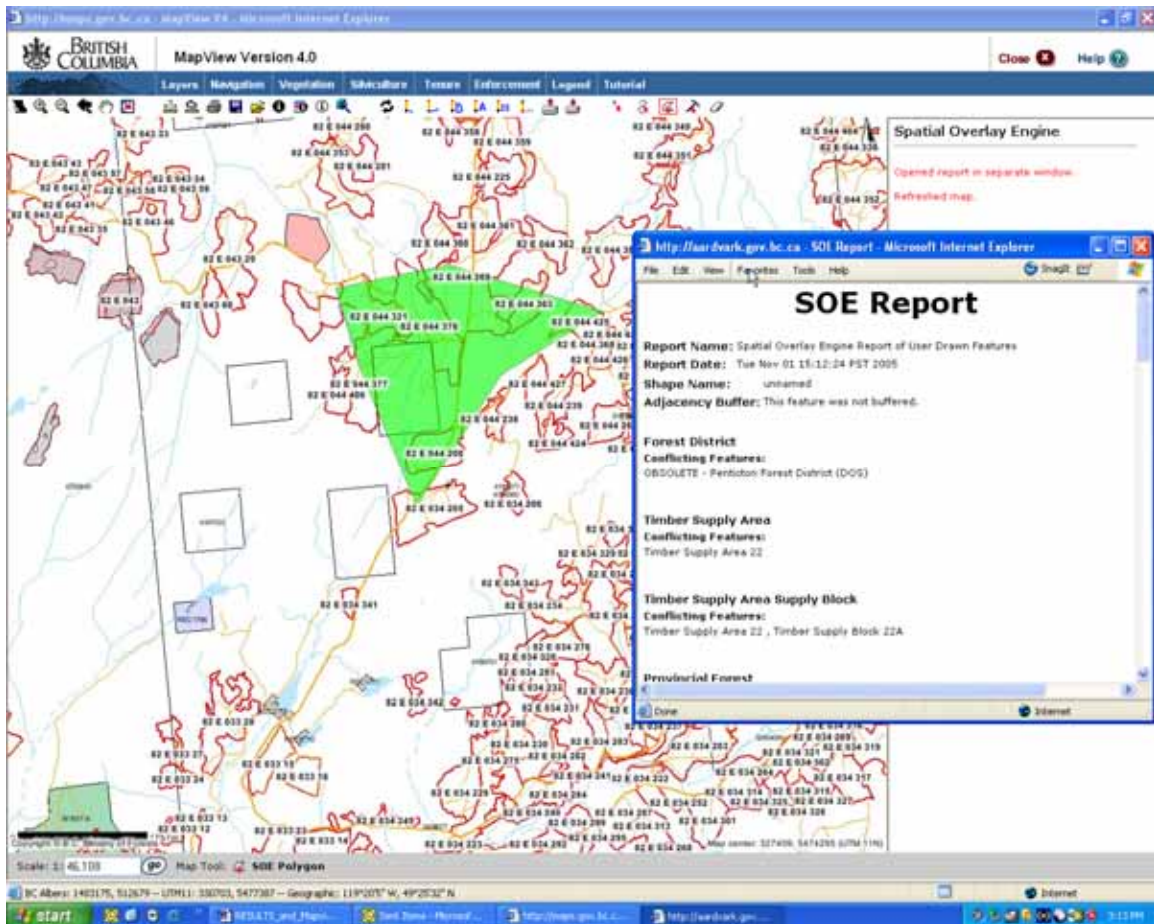
Adjacency buffer:

Report options:
 Show shape on map

An adjacency buffer distance (metres) can be specified so that features that intersect the adjacency buffer are reported in addition to the features that intersect the shape that you drew.

It may be useful for you to see the selection shape or buffer on the map, so you can print it out along with the report. Please indicate whether you wish to show the shape on the map.

RESULTS & Mapview Learnline Module Handout



In the SOE Report, there are hyperlinks to other applications:

- Gator
- Title Search

Those who have authority/access to these can enter into the application to view the associated information for the records that appear in the SOE report.

12.4.12 Detect Archeology Site

This function follows the same process as Spatial Overlay Engine for a polygon specified by user. The main difference is when the SOE Report is generated, the area defined by user is queried against the archeology site layer to confirm the existence of any sites within the area.

13. Silviculture Theme

The following sections highlight features that have been customized for the silviculture business area. Note that while in silviculture theme, users continue to have flexibility to add or remove any layers that exist in Mapview. **Appendix X** contains listing of all layers that are available.

Silviculture

[Display Silviculture Map](#)



Feature Search:

- By Opening I.D.
- By Opening Number
- By License ,Cutting Permit, Cut Block
- By Timber Mark, Cut Block
- Vegetation Opening



Highlight Selected Features:

- Opening Category
- Openings Free Growing
- Openings Free Growing Overdue
- Silviculture Treatments
- Planting by Seedlot/ Veglot
- Forest Stand Conditions



Identify:

- Opening
- Activity Treatment Unit
- Stocking Standard Unit
- Silviculture Forest Cover

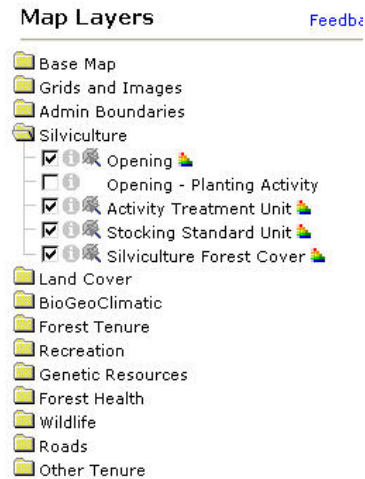


Select then Report On:

- Opening
- Activity Treatment Unit
- Stocking Standard Unit
- Silviculture Forest Cover

13.1 Display Silviculture Map

When using silviculture theme, select **Display silviculture map** will activate all RESULTS-related layers (see below) along with typical other layers such as water bodies, roads etc. Note that you can always apply additional layers as needed. Note that the more layers selected, the more cluttered the map may look and the more processing time required to refresh.



13.2 Feature Search

This provides quick access to common feature search used by silviculture business area. They are the same functions that exist in **Navigation**, but an excerpted list to provide short-cut to commonly used ones.

13.3 Highlight Selected Features – Spatial Queries

This version contains simple Silviculture query functions. Note that the queries use RESULTS data and displays those records that meet the conditions specified in the query and has spatial linework in the LRDW. The query condition could exist for records that exist in RESULTS data, but cannot be shown in Mapview due to no available spatial linework.

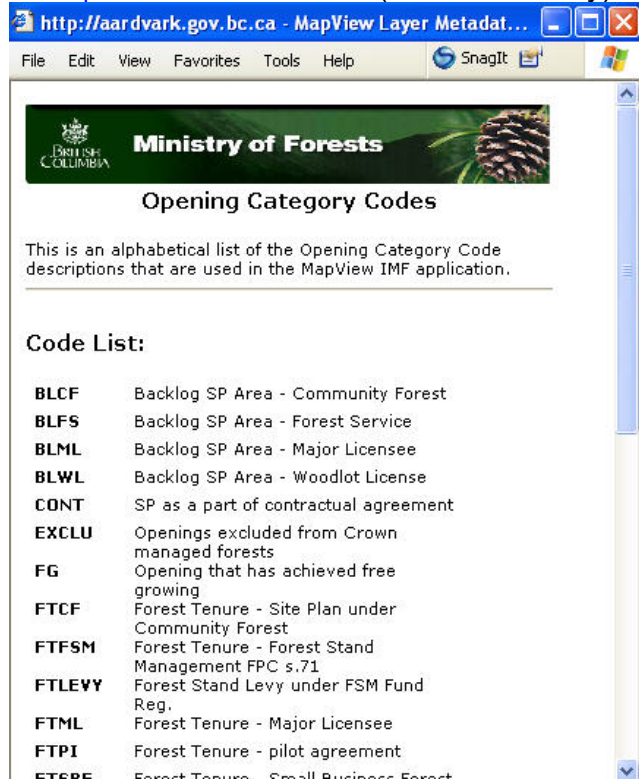
For these queries, where there is an asterisk next to the field, it is mandatory, otherwise, all are optional. If you enter more information/constraints, the query treats this as additional constraint such as an “AND” statement.

When you initiate or “Highlight” the query, it returns only the spatial records that exist for the extent of the map image you are viewing. Therefore, if you change the scale to a wider extent, then you should rerun your query via **Clear Highlight** and then **Highlight** again.

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For some of the query screens, you will notice see “[Descriptions](#)”. These are hyperlinks that will provide detailed codes & expanded descriptions if you are not familiar with RESULTS codes.

[Description](#) ties to Metastar (code dictionary) example:



The screenshot shows a web browser window with the address bar displaying <http://aardvark.gov.bc.ca> - MapView Layer Metadat... The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The page content features the British Columbia Ministry of Forests logo and a header for 'Opening Category Codes'. Below the header, a paragraph explains that the page is an alphabetical list of opening category code descriptions used in the MapView IMF application. A section titled 'Code List:' follows, containing a list of codes and their descriptions:

| Code | Description |
|---------------|--|
| BLCF | Backlog SP Area - Community Forest |
| BLFS | Backlog SP Area - Forest Service |
| BLML | Backlog SP Area - Major Licensee |
| BLWL | Backlog SP Area - Woodlot License |
| CONT | SP as a part of contractual agreement |
| EXCLU | Openings excluded from Crown managed forests |
| FG | Opening that has achieved free growing |
| FTCF | Forest Tenure - Site Plan under Community Forest |
| FTFSM | Forest Tenure - Forest Stand Management FPC s.71 |
| FTLEVY | Forest Stand Levy under FSM Fund Reg. |
| FTML | Forest Tenure - Major Licensee |
| FTPI | Forest Tenure - pilot agreement |
| ETSPB | Forest Tenure - Small Business Forest |

13.3.1 Opening Category Query

The Opening Category Query allows for the selection based on:

- Opening Category,
- Licence Number,
- Client Number,
- Disturbance Start Date Range, or
- Disturbance End Date Range

Any combination of these can be used, but the more used, the more restrictive the query. The example below illustrates the use of opening category with disturbance start date range.

The screenshot shows the MapView Version 4.0 web application interface. The main map area displays a geographical area with numerous opening categories, each labeled with a unique identifier such as '92 H 067 55'. The map is overlaid with a grid and various colored lines representing different opening categories. The interface includes a top navigation bar with tabs for 'Layers', 'Metadata', 'Vegetation', 'Subculture', 'Tenure', 'Enforcement', 'Legend', and 'Tutorial'. A search bar is located at the top left. On the right side, there is a panel titled 'Opening Category Query' with the following fields and options:

- Opening Category Code:** Descriptions (dropdown menu)
- Licence Number:** (text input field)
- Client Number:** (text input field)
- Disturbance Start Date:** (radio button, selected)
- Disturbance End Date:** (radio button)
- No Date:** (radio button)
- From:** 1900 (text input)
- To:** 1962 (text input)
- Highlight:** (button)
- Clear Highlight:** (button)

A note below the query panel states: 'Note: If no 'To' Date is supplied with a 'From' Date then today's date will be used for the 'To' date.' Another note below that states: 'At least one parameter must be selected/ supplied before clicking the highlight button.'

The bottom of the screenshot shows the browser's address bar with the URL 'http://maps.gov.bc.ca', the scale '1:59,231', and the map tool 'Zoom In'. The system tray at the bottom indicates the date 'November 2005' and the time '11:24 AM'.

13.3.2 Silviculture Activity Query

The Silviculture Activity Query allows for the selection based on:

- Silviculture Base Activity,
- Silviculture Technique,
- Silviculture Method,
- Silviculture Funding Source,
- Opening Category code,
- Activity Completion Date Range, or
- Planned Date Range (but not completed)

Note that the ministry accepts only valid combinations of base/technique/method activities. If you are not familiar with ministry codes or valid combinations, please refer to: http://www.for.gov.bc.ca/hfp/publications/00026/fs708-14-appendix_d.htm

For the base activity, not all subsequent technique and/or method codes are required unless you desire to be very specific for your query. Queries can be as broad or as specific as needed.

In the example, only planting (base) was used with funding source and completion date range.

The screenshot shows the MapView 4.0 web application interface. The main map area displays a geographical view of silviculture activity areas, with numerous labels such as '92 H 007 01', '92 H 007 02', etc., overlaid on a map of terrain and roads. The interface includes a top navigation bar with 'Layers', 'Navigation', 'Vegetation', 'Silviculture', 'Temps', 'Enforcement', 'Legend', and 'Tutorial'. On the right side, there is a 'Silviculture Activity' query panel with the following settings:

- Silviculture Base Activity: Planting
- Silviculture Technique: Any
- Silviculture Method: Any
- Silviculture Funding Source: Industrial Appraisal
- Opening Category Code: Descriptors
 - BLCP
 - BLPS
 - BLAL
 - BLWL
- Completion Date: Planned Date
- Date Range: From 1995, To 2001

Buttons for 'Highlight' and 'Clear Highlight' are visible. A note at the bottom of the panel states: 'Note: If no 'To' Date is supplied with a 'From' Date then today's date will be used for the 'To' date. At least one parameter must be selected/ supplied before clicking the highlight button.'

13.3.3 Seedlot and Veglot Plantings Query

The Seedlot/Veglot Query allows for the selection based on:

- Opening Category
- Silviculture Tree Species
- Seedlot/Veglot Number
- Planting Completion Date

In the example, all opening categories that had interior lodgepole pine planted between a specified dates.

The screenshot displays the MapView V4.0 web application interface. The main map area shows a geographical region with numerous yellow-highlighted polygons representing seedlot and veglot plantings. The interface includes a search panel on the right with the following settings:

- Opening Category Code:** Descriptions
- Silviculture Tree Species Code:** LODGEPOLE PINE (INTERIOR)
- Seedlot Number:** (empty field)
- Completion Date:** Completion Date, No Date
- From:** 1995 01 01
- To:** 2000 01 01

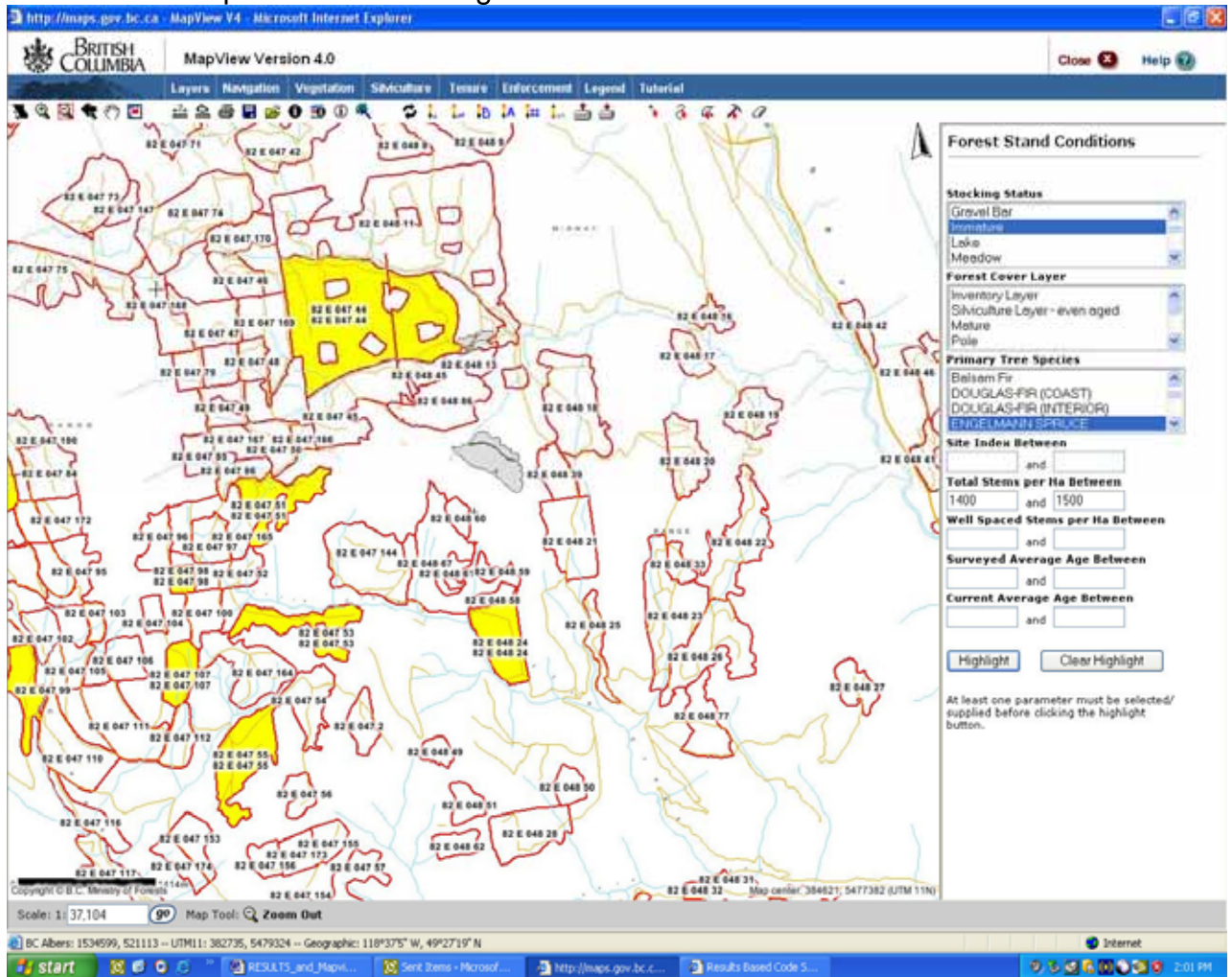
Buttons for "Highlight" and "Clear Highlight" are visible. A note at the bottom of the search panel states: "Note: If no 'To' Date is supplied with a 'From' Date then today's date will be used for the 'To' date. At least one parameter must be selected/ supplied before clicking the highlight button."

13.3.4 Forest Stand Conditions Query

The Forest Stand Conditions Query allows for the selection based on:

- Stocking Status
- Forest Cover Layer
- Primary Tree Species
- Site Index
- Total Stems per hectare
- Well Spaced Stems per hectare
- Surveyed Average Age
- Current Average Age (adding years difference between survey year and current year)

In the following example, combination of stocking status, primary tree species and total stems per hectare is being used.



13.3.5 Openings Free Growing Query

This query is designed to show all openings that have been declared free growing. Note that this design is opening-based so that all SUs must be declared free growing prior to be highlighted. There are no parameters associated with this query. It is to demonstrate simple thematic mapping that can be pre-set in Mapview.

Note that RESULTS Corporate Reporting System also contains a Free Growing Report that is more detailed by SU and is also spatially enabled that contains flexibility in parameter setting.

13.3.6 Openings Free Growing Overdue


This query is designed to show any openings that have not been declared that is past due. Similar comments described in section 13.3.6.

13.4 Identify

Within the silviculture theme, the **Identify** has been set-up in the menu so that it saves extra step from switching identify layer priority in the Layer tab. When one layer is identified, then you can select an item on the map and the detailed information will be displayed.

Note that for RESULTS, the majority of data is shown in the opening layer however, it can be very long list and requires lots of scrolling. As such, you have the ability to see only the business area of interest (eg activity, standards unit vs. forest cover).

13.5 Select Then Report On

Within the Silviculture theme, the **Select Then Report On** has been set-up in the menu to save extra step from switching  Select Set priority in the Layer tab. See [12.4.5 Selection Set](#) for more details.

14. RESULTS Corporate Reporting System (CRS) & Mapview

Some of RESULTS CRS reports have been designed to link to Mapview functionality.

- ISSAW01-Regeneration (.pdf & by Mapsheet)
- ISSAW01-Free growing (.pdf & by Mapsheet)
- % Permanent access structure (.pdf only),
- Wildlife tree retention by opening reports (.pdf only)

14.1 Individual Openings

When a .pdf or .csv report is created, there are imbedded url's that are in [blue underline](#) that enables user to click to get to the opening via Mapview.

| Free Growing Report | | | | | | | | | | Page: | | Page 1 of 15 | | | | | | | |
|---|----------------------------------|-------------|----------------------|---------------------------------|--------|--------------------|------------|-------|---------------|---------------------|----------------|--------------|----------------|---------|---------|-------------|------------|-----------------|----|
| Org Unit: | DKA | | Due Start Date: | 2005-01-01 | | Due End Date: | 2005-08-01 | | Date Printed: | 2005-05-25 15:20:37 | | User Id: | idrvmt001 | | | | | | |
| Client Number: | | | Received Start Date: | 2005-01-01 | | Received End Date: | 2005-08-01 | | Database: | DBFC01 | | Report Id: | ISSAWM01 | | | | | | |
| Client Name: | | | Declare Ind: | Y | | | | File: | | | | | | | | | | | |
| License: | | | | | | | | | | | | | | | | | | | |
| Opening Category: | FTML | | | | | | | | | | | | | | | | | | |
| - SUs declared in ISS will have a default of "2005-11" Free Growing Declaration Received date - "Months Left" refers to the number of months remaining from the free growing declaration received date and the current reporting date. This is useful to determine whether SUs is within the 15 month assessment window. - *Note: ISS or RESULTS_CDMW Received UserIDs requires manual verification of report received date to comply with the prescribed 15 month period | | | | | | | | | | | | | | | | | | | |
| District: | DKA | | | | | | | | | | | | | | | | | | |
| Licensee: | 00001000 00 TOLKO INDUSTRIES LTD | | | | | | | | | | | | | | | | | | |
| District: | DKA | | | | | | | | | | | | | | | | | | |
| License | Open Cat. | Timber Mark | Cut Block | Opening ID | Map ID | Line No. | Gross Area | SU | RFC | NAR | Dist Comm Date | Months Left | Regen Declared | FFG Out | LFG Out | FF Declared | FF Reserve | Received User | Ad |
| A18000 | FTML | ES4005 | 5 | S2L 051 0 0 252 | | | 15.9 | | | 5.1 | 1992-07-01 | 10 | | 2003-07 | 2007-07 | 2003-09-19 | 2005-04-03 | IDRVADELL N AVI | |
| | | | | | Y | ROSC | | A | IDF dk 2 01 | 10.1 | 1992-07-01 | 10 | | 2003-07 | 2007-07 | 2003-09-19 | 2005-04-03 | IDRVADELL N AVI | |
| A18000 | FTML | ES4005 | 0 | S2L 051 0 0 253 | | | 14.2 | | | 13.6 | 1994-05-01 | 10 | | 2003-05 | 2009-05 | 2003-09-17 | 2005-04-03 | IDRVADELL N AVI | |
| A18000 | FTML | ES4530 | 0 | S2L 002 0 0 411 | | | 37.9 | | | 34.0 | 1988-02-01 | 8 | | 2000-02 | 2003-02 | 2002-08-24 | 2005-02-02 | IDRMCOLLA ING | |
| | | | | 20159 | | N | | B | IDF dk 2 05 | | | | | | | | | | |
| A18000 | FTML | ES4501 | 10 | S2L 081 0 0 145 | | | 3.5 | | | 3.5 | 2000-06-01 | 10 | | 2003-08 | 2015-08 | 2003-09-30 | 2005-03-22 | IDRMCOLLA ING | |
| | | | | 86286 | | N | | A | IDF dk 2 01 | | | | | | | | | | |
| A18000 | FTML | ES4561 | 1 | S2L 091 0 0 143 | | | 8.0 | | | 8.0 | 1995-10-01 | 11 | | 2003-10 | 2010-10 | 2004-09-23 | 2005-04-11 | IDRMCOLLA ING | |
| | | | | 20229 | | N | | 1 | ESSF dk 2 05 | | | | | | | | | | |
| A18000 | FTML | ES4561 | 2 | S2L 091 0 0 144 | | | 20.5 | | | 20.5 | 1995-10-01 | 11 | | 2003-10 | 2010-10 | 2004-09-23 | 2005-04-11 | IDRMCOLLA ING | |
| | | | | 20230 | | N | | 1 | ESSF dk 2 05 | | | | | | | | | | |

14.2 Mapview Hyperlink Format Option

The Mapview format option runs the report as a HTML link organized by mapsheet. It is recommended that either a .pdf or .csv report is run for the same criteria to provide additional information to complement the map output.

The following gives an illustration how to run a Mapview report and how to interpret the spatial HTML file and what you may expect to see.

ISSAWM01-Free Growing Report

Business Description:
This report provides a summary of all openings that have free growing due or free growing declared based on the specified year ranges entered by the user. This report is useful for identifying the total population of blocks for inspection purposes. To ensure that the total population is selected do not use the Free Growing Declared Indicator. However, if you wish to narrow your report for a specific purpose, enter Y if you are interested in SUs that have been declared, or N if you are interested in SUs that not been declared.

District*: Kamloops Forest District (DKA)


Client Name:

Client Number:

Client Location:

Licence:

Open Category*: FTML-Forest Tenure - Major Licensee

Start Due Date: 

End Due Date: 

Declared*: YES

Start Received Date: 2005-01-01 

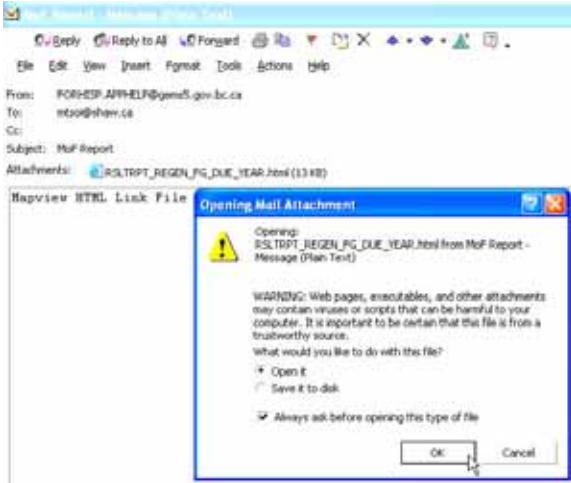
End Received Date: 2005-06-30 

Format: 

- Acrobat PDF
- MS Word
- MS Excel
- MS Excel Data
- Rich Text Format
- CSV
- Mapview**
- Mapview

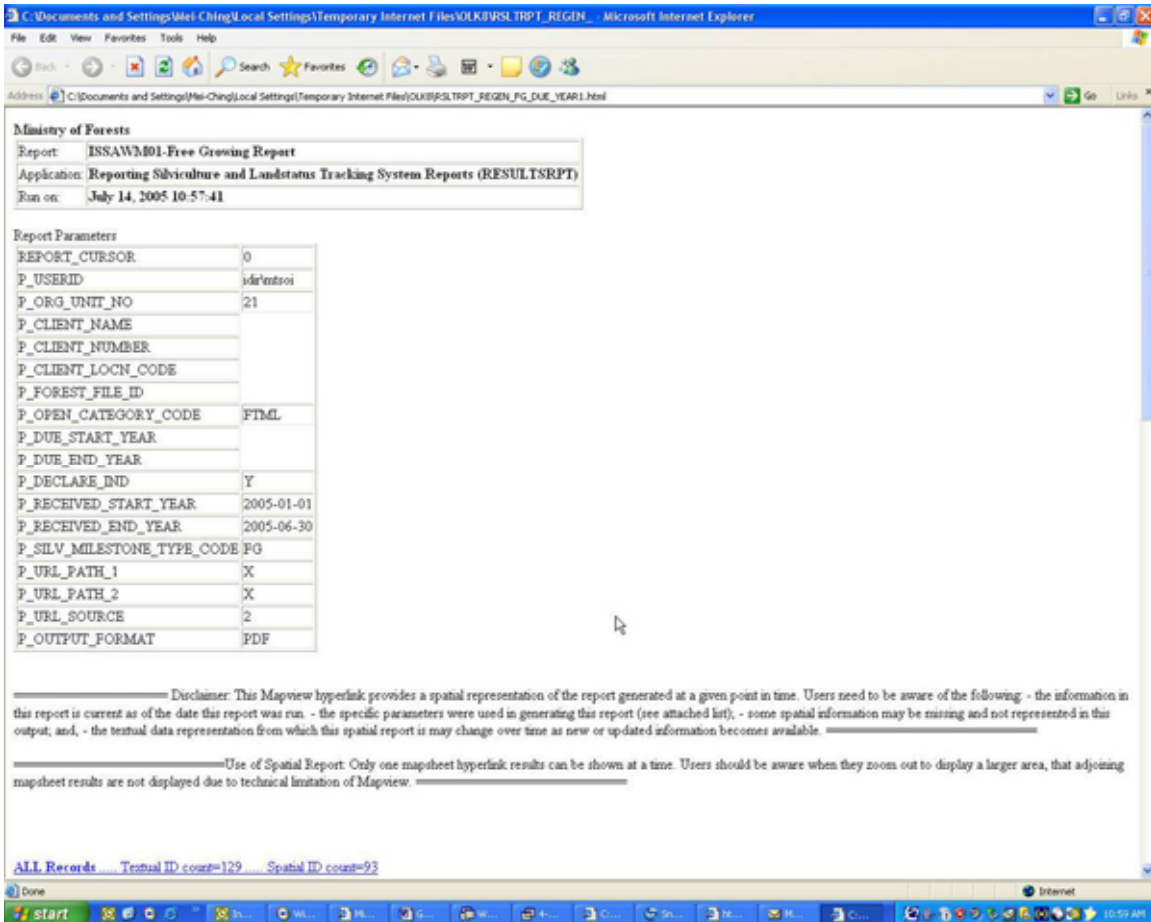
Note that either a .pdf or .csv report should be also run also so that this can be used in conjunction with the spatial report.

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An email with attachment will appear in your email in basket.

Open the file to see the HTML hyperlinks to Mapview, which is organized by mapsheets.



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[ALL Records](#) Textual ID count=129 Spatial ID count=93

[82L 051](#) Textual ID count=4 Spatial ID count=3

[82L 062](#) Textual ID count=1 Spatial ID count=0

[82L 081](#) Textual ID count=1 Spatial ID count=0

[82L 091](#) Textual ID count=5 Spatial ID count=0

[82M 001](#) Textual ID count=4 Spatial ID count=1

[82M 011](#) Textual ID count=1 Spatial ID count=1

[82M 022](#) Textual ID count=1 Spatial ID count=1

[82M 031](#) Textual ID count=1 Spatial ID count=1

[82M 032](#) Textual ID count=3 Spatial ID count=1

[92I 058](#) Textual ID count=4 Spatial ID count=0

[92I 060](#) Textual ID count=2 Spatial ID count=2

[92I 078](#) Textual ID count=1 Spatial ID count=0

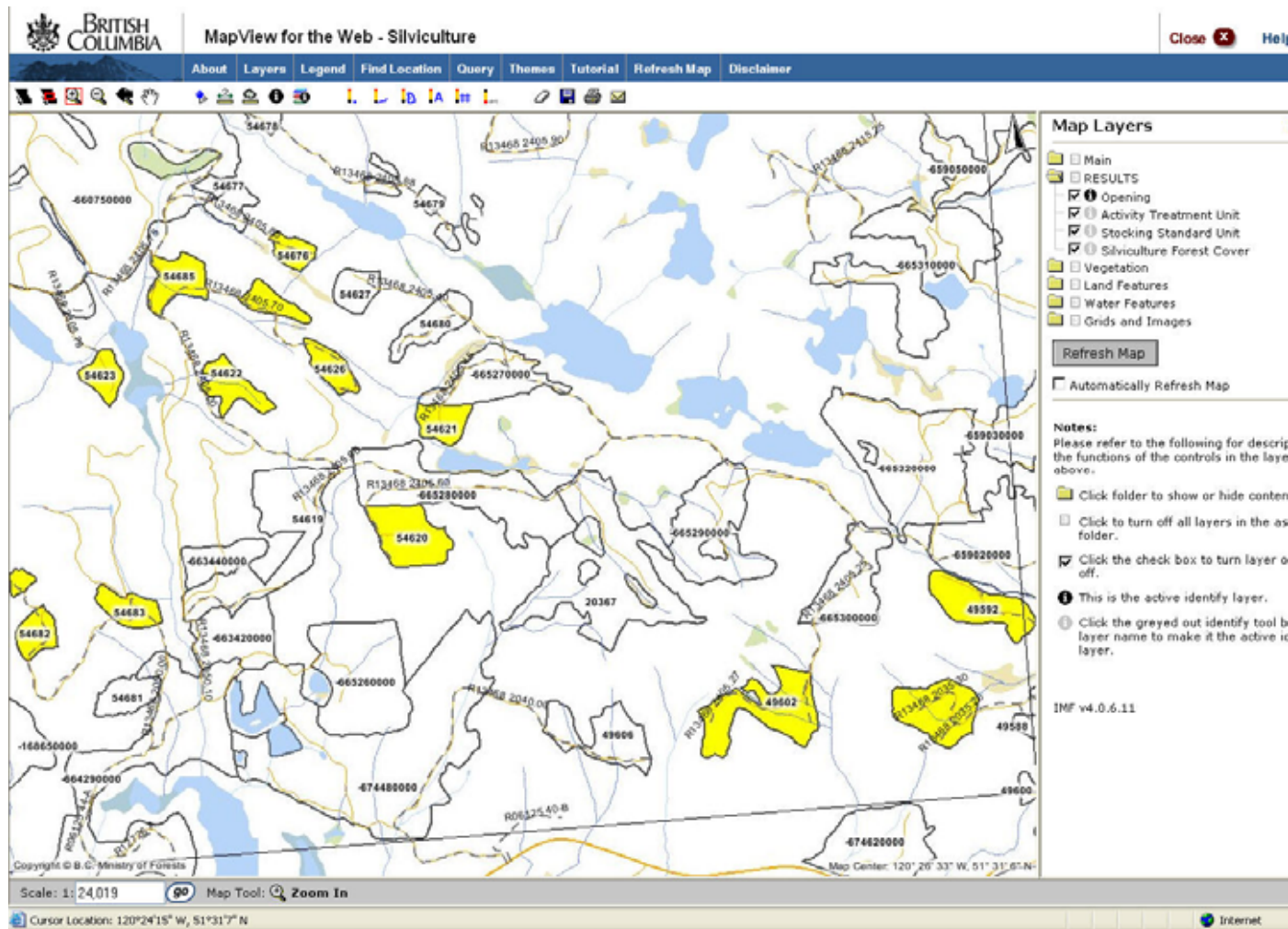
Textual ID – is the number of records that would show up in .pdf or .csv report

Spatial ID – is the number of records that would appear in Mapview

Select on any mapsheet for highlighted map of the openings that matched report parameters.

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Highlighted openings in Mapview illustrate records that match the report parameters. There can be records that matched the parameters, but do not have spatial linework.



Currently, only the Regeneration and Free Growing Report has the Mapview Format (by Mapsheet) Option.

Appendix A – Different ways of using Mapview

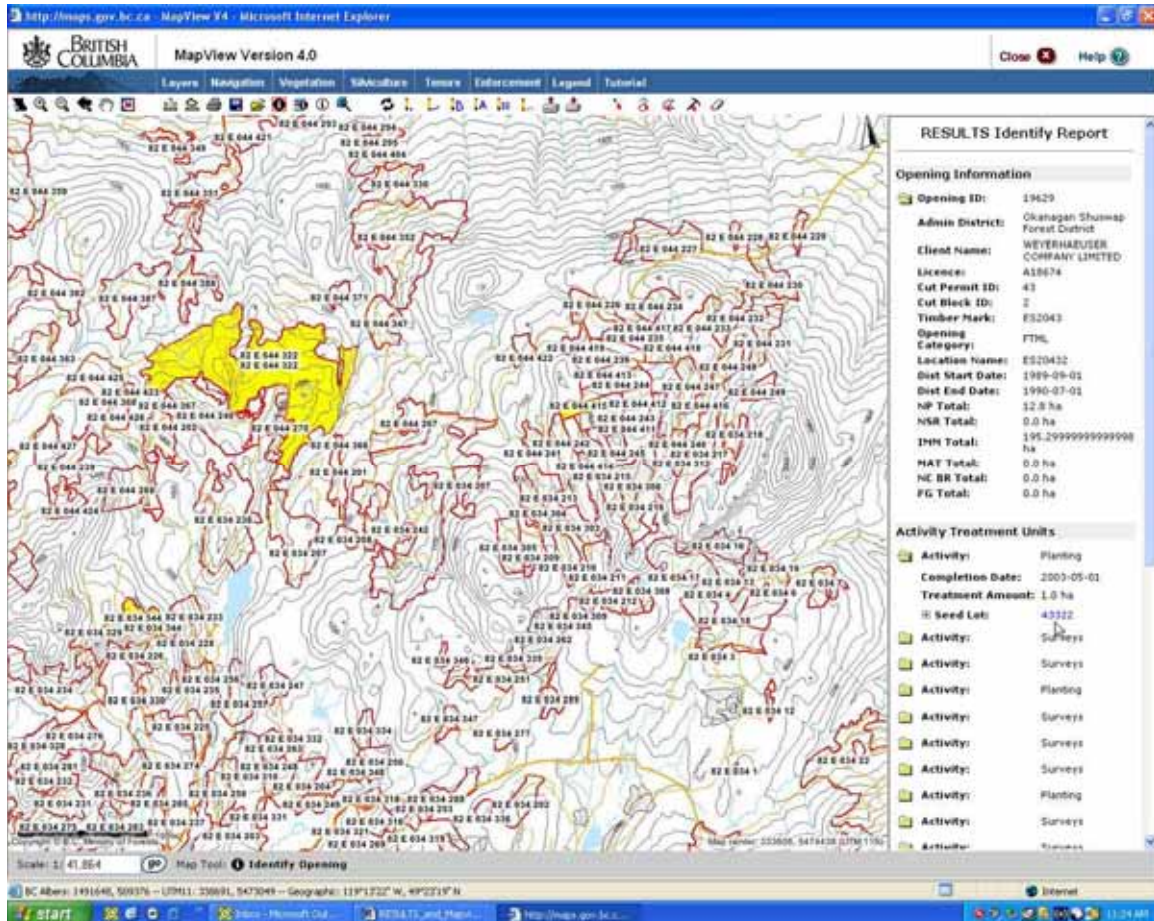
Example 1: Checking for Planting with seed transfer guidelines

Layers to activate

- Base Map - Elevation
- RESULTS – all
- Genetic Resources – Seed Planning Zone/Units as needed

Highlight - Silviculture Activity Report to confirm completed planting within timeframe of interest

- Base – Planting, Completion button, Date Range



Identify any highlighted opening – to get information about detailed opening information. Note [Seedlot](#) is a hyperlink that ties to SPAR to get information on Elevation Limits, SPZ, etc. You will get authentication screen to if you select Seedlot link to get into SPAR.

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The screenshot shows the 'Seed Planning and Registry System' interface. At the top, there is a navigation bar with 'Lot Info' selected. A dropdown menu is open, showing options like 'Seedlot Detail', 'Owners', 'Tests', 'Commitments', 'Transaction History', and 'Heritage'. Below the menu, it says 'Last Updated: October 13, 2005' and 'You are currently logged on as: Idirmtsoi'. There are also 'Available links' for 'SeedMap' and 'Chief Forester's Standards'.

The second screenshot shows the 'SPR30 Seedlot Detail' page. It has a search bar with 'Seedlot Number: 43322' and a 'Go' button. Below the search bar, there are tabs for 'Lot Details', 'Owners', 'Tests', 'Commitments', 'Transactions', and 'Heritage'. The 'Lot Details' tab is active, showing the following information:

| | | | |
|---------------------|---------------------------------|------------------|---------------------------|
| Seedlot Number: | 43322 | Registered: | Yes - 1998-05-11 - Active |
| Species: | PLI - LODGEPOLE PINE (INTERIOR) | | |
| Genetic Class/Worth | B | Collection Year: | 1999 |

Source Information

| | | | |
|---------------------------|--------------------|------------------|--------------|
| Location: | RED CREEK | Heritage: | No |
| Seed Planning Zone: | TOA | Geographic Area: | |
| Elevation: Min/Max (m) | 1600 / 1600 / 1600 | | |
| Latitude: | 49° 31' 00" | Longitude: | 120° 13' 00" |
| BGC Zone/Subzone Variant: | MS -X | | |

Area of Use

| | | | |
|------------------------------|---------------------------|--------------------------|-----------------------------|
| Seed Planning Zone(s): | TOA | | |
| Elevation Range: Min-Max (m) | 1500 - 1500 | | |
| Latitude Range: Min-Max | 48° 31' 00" - 51° 31' 00" | Longitude Range: Min-Max | 118° 13' 00" - 123° 13' 00" |

Identify Results

| |
|--|
| Coordinate Position |
| UTM 11N: 330894, 5476511 |
| BC Albers: 1483473, 511834 |
| Geographic: 49° 25' 4" N, 119° 19' 54" W |
| Elevation - Lines (1:20K) |
| Elevation: 1520 |

Then go back to Layers screen and change the Identify to Elevation and select the location of the opening. Note that depending on the slope gradient, you may have to go to several locations to find out the elevation range.

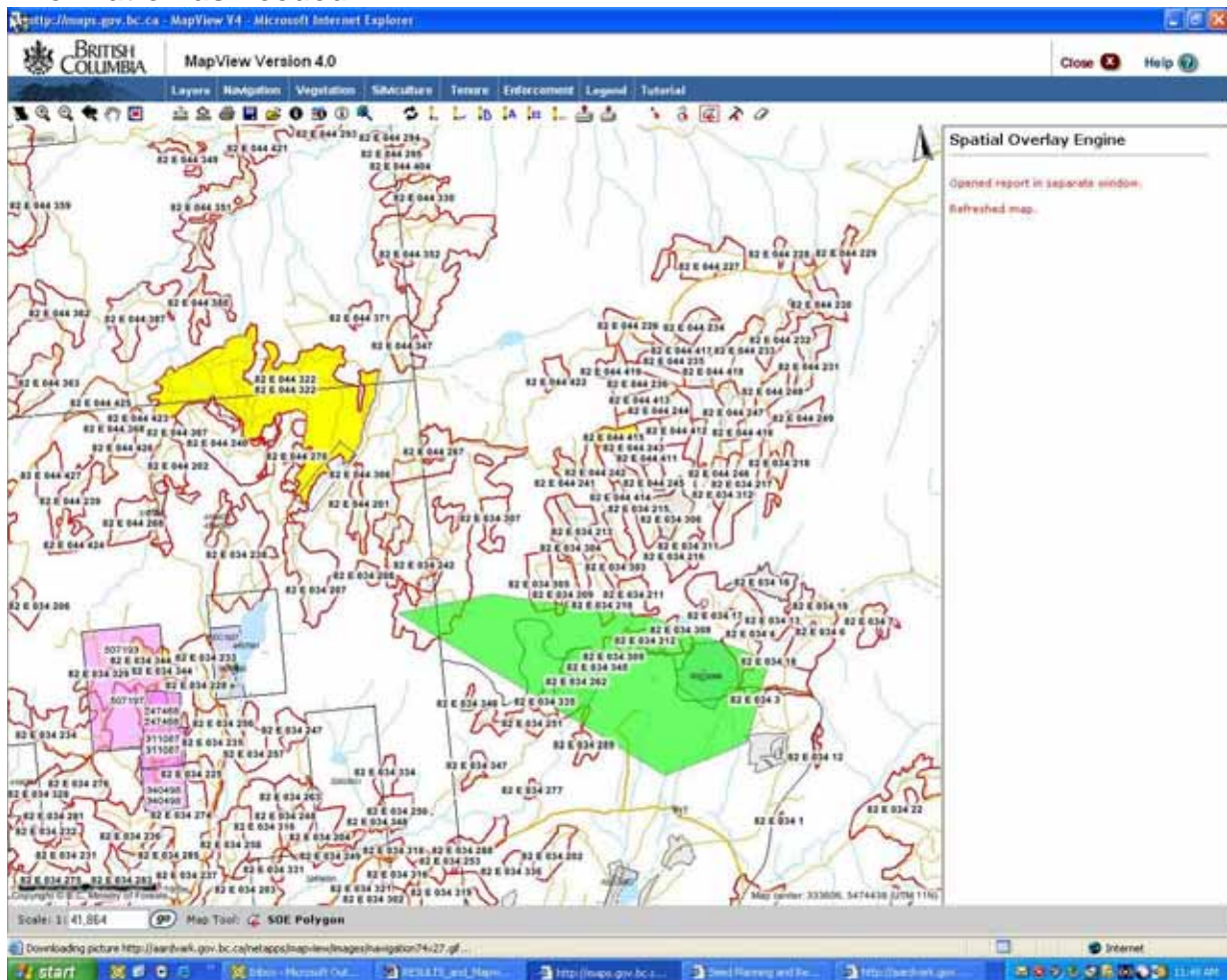
Then you can compare the actual planted elevation against the seedlot limit from SPAR. Likewise, you can also activate SPZ layer on the map display also.

Example 2 – Identification of forestry operations adjoining other planned activities (oil and gas)

Layers to activate

- RESULTS – all
- Other Tenures – check of any
- Note there are cultural features under Base Map

Select  SOE Polygon and highlight on map and specify buffer information as needed.



Run SOE Report – the following is an excerpted illustration

RESULTS & Mapview Learnlinc Module Handout

SOE Report

Report Name: Spatial Overlay Engine Report of User Drawn Features
Report Date: Wed Nov 02 11:48:06 PST 2005
Shape Name: unnamed
Adjacency Buffer: This feature was not buffered.

Forest Region

Conflicting Features:
OBSOLETE - Nelson Forest Region (RSI)

Forest District

Conflicting Features:
OBSOLETE - Penticon Forest District (DOS)
OBSOLETE - Boundary Forest District (DAB)

Timber Supply Area

Conflicting Features:
Timber Supply Area 22
Timber Supply Area 92

Timber Supply Area Supply Block

Conflicting Features:
Timber Supply Area 22 , Timber Supply Block 22A
Timber Supply Area 92 , Timber Supply Block 92F

Provincial Forest

Conflicting Features:
Okanagan Bk 0
Inkaneep Bk 0
Kettle Bk 0
Kettle Bk 1

Tree Farm Licence

Conflicting Features:
TRL15 Bk 1 Area 0

TEN Forest Licence Chart

Conflicting Features:
A18674 Cht 15 Bk 1
A18674 Cht 20 Bk A
A18970 CM 2 Bk A

TEN Timber Sale Licence Minor

Conflicting Features:
A60822

Timber Sale Licence Minor

Conflicting Features:
A60822

Recreation Reserve

Conflicting Features:
REC6568 U Tuzo Lake

TEN Road Permit

Conflicting Features:
R32248 Sec 1E
R32248 Sec 1F
RD6639 Sec 423

Forest Service Road (FSR)

Conflicting Features:
FSR Tuzo Creek FSR Br 01

Road Permit

Conflicting Features:
Sec 1E
Sec 1F
Sec 423

Surveyed Parcel Shapes

Conflicting Features:
PIN: 4166673 Legal Description:EXCEPT SUBLOTS 1-4,6,7,9-14&16-21 PLAN 1193
PIN: 4794560 Legal Description:DISTRICT LOT 3639, SDYD

[Gator](#)
[Gator](#)

Administration Area Shapes

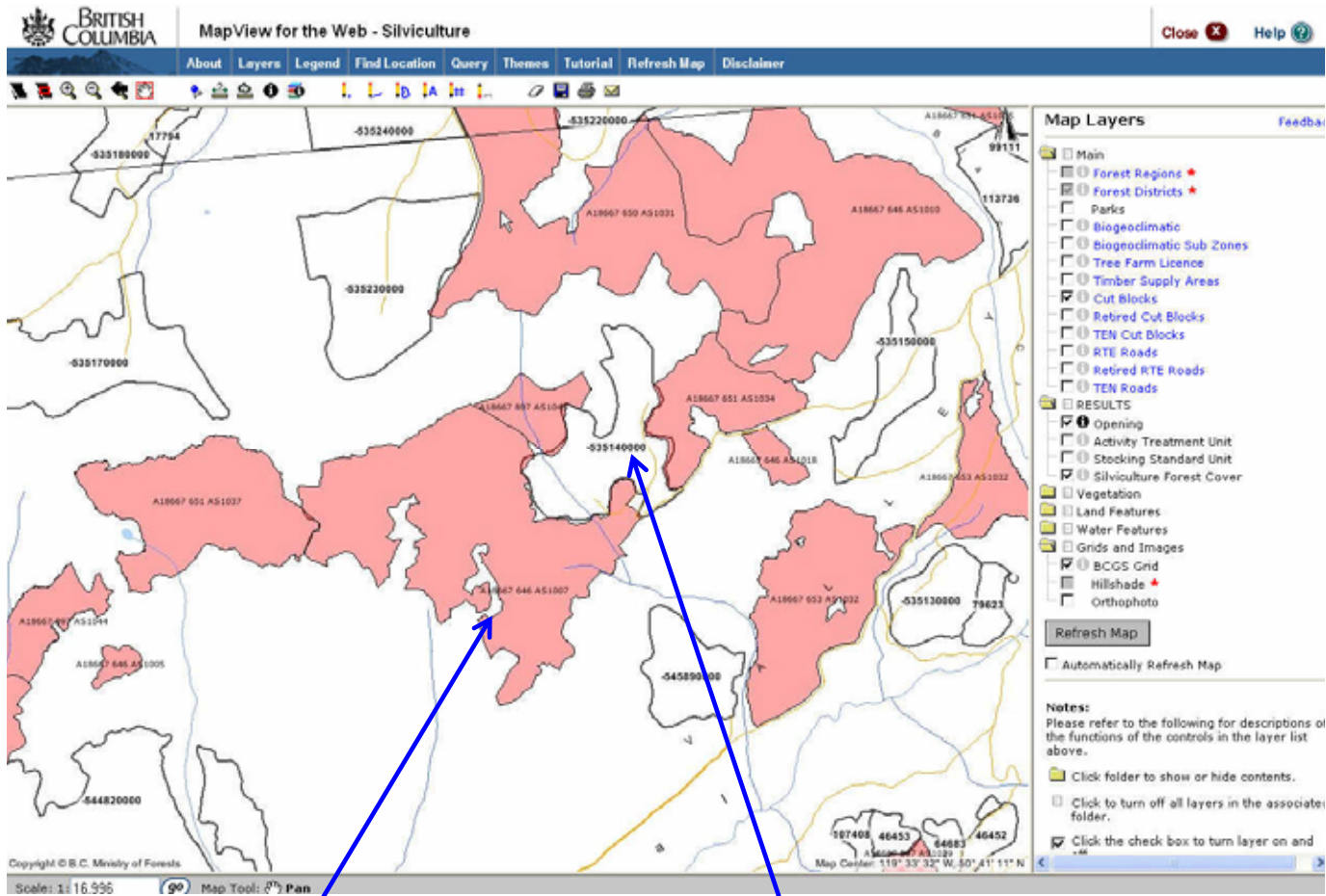
Conflicting Features:
KOOTENAY BOUNDARY REGIONAL DISTRICT
BOUNDARY SCHOOL DISTRICT
SDYD LAND DISTRICT
OKANAGAN-SIMILKAMEEN SCHOOL DISTRICT
OKANAGAN-BOUNDARY ELECTORAL DISTRICT PROVINCIAL
OKANAGAN-SIMILKAMEEN REGIONAL DISTRICT
PENTICTON ASSESSMENT AREA
YALE-LILLOOET ELECTORAL DISTRICT PROVINCIAL
THOMPSON-OKANAGAN LAND MANAGEMENT REGION
KAMLOOPS LAND TITLE DISTRICT

[Gator Main](#)
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Example 3: Locating for missing spatial data in RESULTS

Activate Forest Tenure Layers and view with RESULTS Layers to identify missing information. Note that for those areas which are still not free growing, the Ministry will gradually receive information via regeneration and free growing reporting.

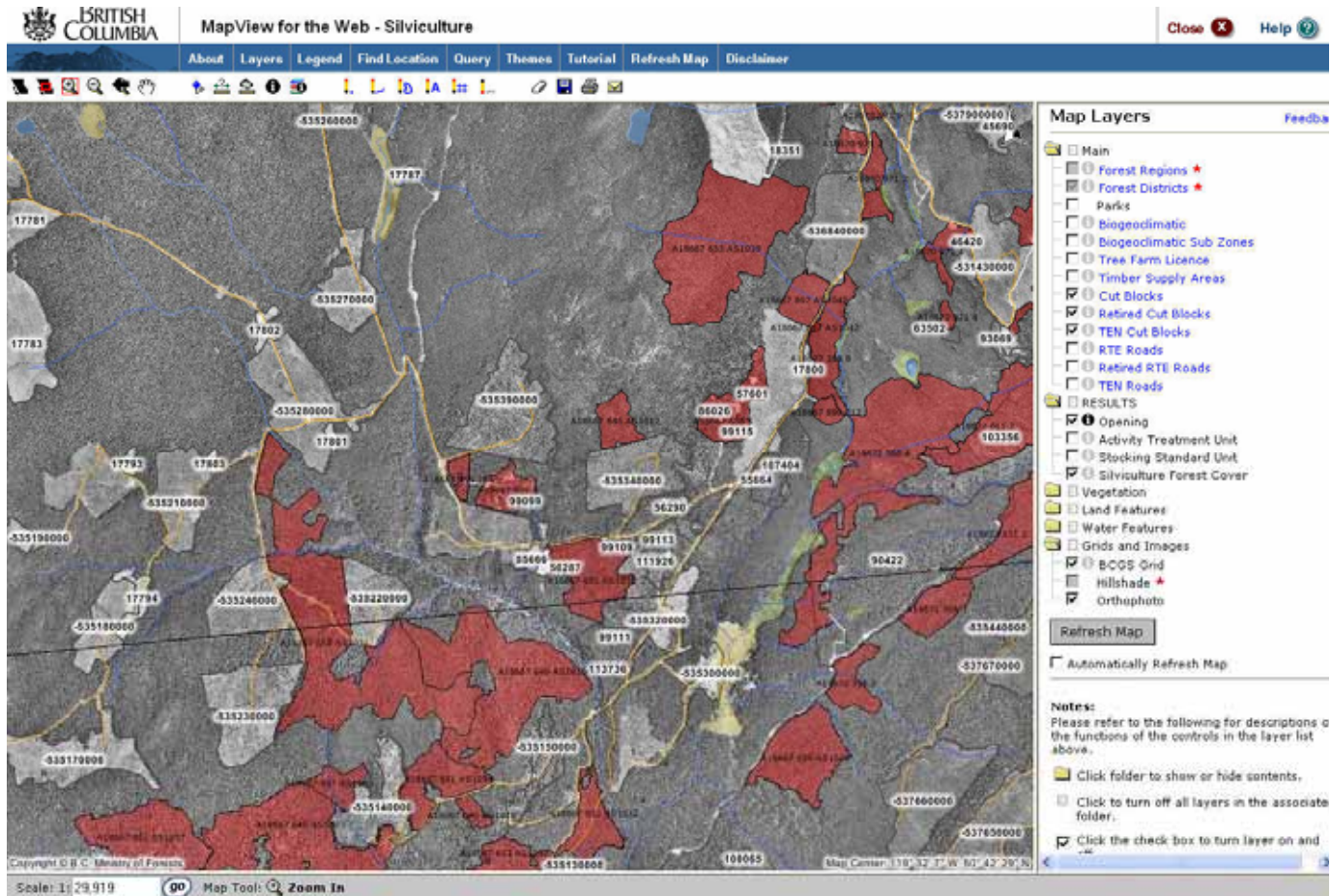


A18667 646 AS1007
Opening ID: 113371
(FTML, DN HV 2003)
Exist in Cutblock
Exist textual in RESULTS
No spatial in RESULTS

Opening ID: -535140000
(P87, DN HV 1980)
Exist textual in RESULTS
Exist spatial in RESULTS
due to ROSC

Example 4: Use of Orthophotos to supplement map viewing

Use of orthos can also assist identification of areas and data gaps.



Appendix B – Mapview 4 Layers

Map Layers [Feedback](#)

- Base Map
 - Surface Features *
 - Miscellaneous Features *
 - Land Cover Features *
 - Cultural Features *
 - Transportation
 - Elevation
 - Wetland *
 - Watershed Miscellaneous Feature
 - Watershed Boundary *
- Grids and Images
 - BCGS Grid 1:10,000 *
 - BCGS Grid 1:20,000
 - NTS Grid 1:50,000 *
 - NTS Grid 1:250,000 *
 - Hillshade
 - Air Photo Lines *
 - Orthophoto
- Admin Boundaries
 - Forest Regions *
 - Forest Districts *
 - Park
 - Provincial Forest
 - Detailed Provincial Forest
 - Tree Farm License
 - Timber Supply Area
 - Public Sustained Yield Unit
 - Region Compartment
 - Special Protection Areas
 - Community Watershed
- Silviculture
 - Opening
 - Opening - Planting Activity
 - Activity Treatment Unit *
 - Stocking Standard Unit *
 - Silviculture Forest Cover *
- Land Cover
 - Vegetated Land Cover *
 - Vegetation Labels *
 - Land Cover - Silviculture *
 - Land Cover - Non-Vegetated *
 - Land Cover - Water *
 - Land Cover - Unreported *

RESULTS & Mapview Learnlinec Module Handout

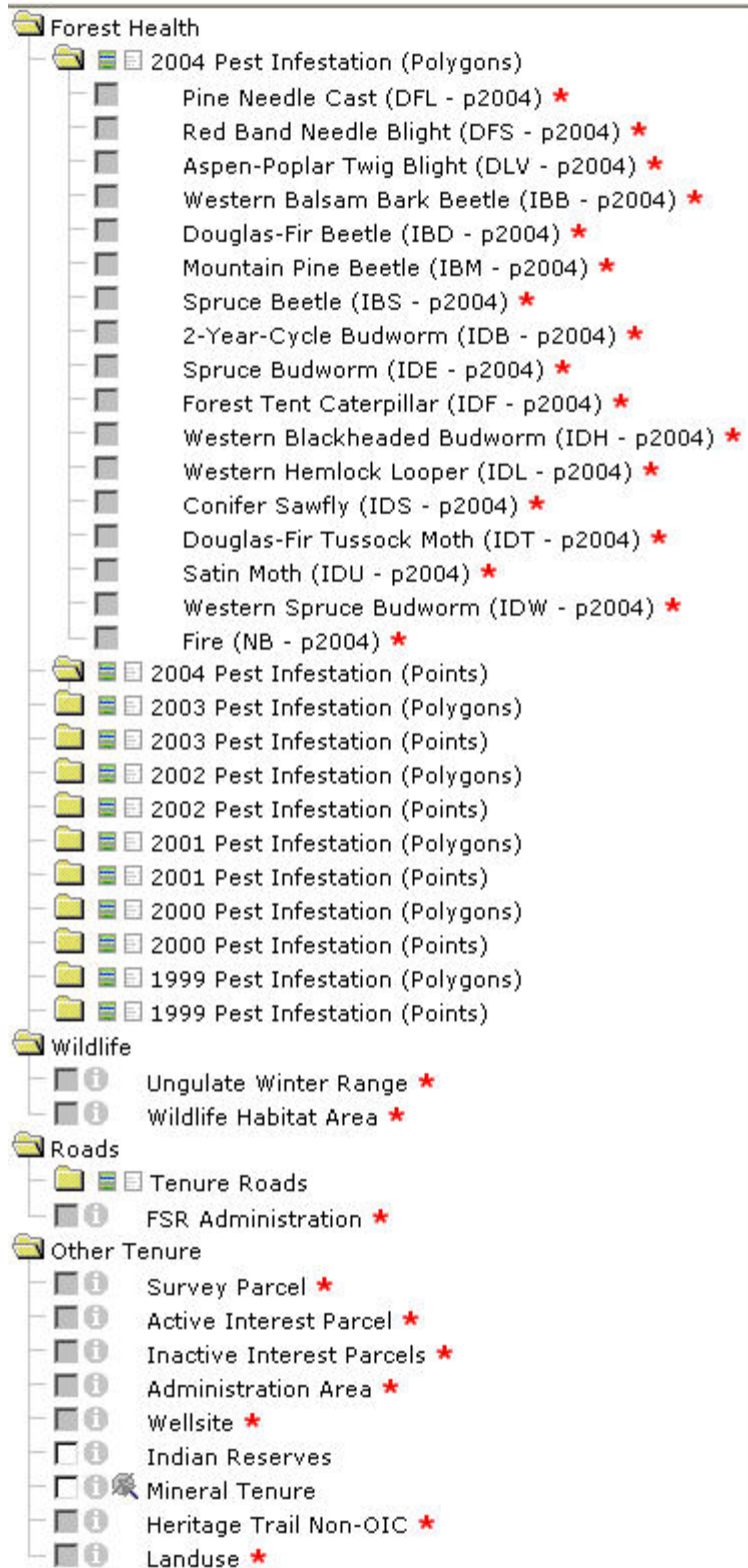
The screenshot displays a hierarchical tree structure of genetic resources, organized into three main sections:

- Genetic Resources**
 - Seed Plan Zones
 - Seed Plan Zones - Natural Stand
 - Natural Stand Zones
 - Seed Plan Zones - GRM
 - Poplar Hybrid SPZ
 - Amabilis Fir SPZ
 - Grand Fir SPZ
 - Western Red Cedar SPZ
 - Douglas Fir SPZ
 - Western Hemlock SPZ
 - Western Larch SPZ
 - Lodgepole Pine (Interior) SPZ
 - White Pine SPZ
 - Sitka Spruce SPZ
 - Spruce Hybrid SPZ
 - Sitka Spruce Unknown Hybrid
 - Yellow Cedar SPZ
 - Seed Plan Zones Outline
 - Seed Plan Zones - Natural Stand
 - Natural Stand Zones
 - Seed Plan Zones - GRM
 - Poplar Hybrid SPZ
 - Amabilis Fir SPZ
 - Grand Fir SPZ
 - Western Red Cedar SPZ
 - Douglas Fir SPZ
 - Western Hemlock SPZ
 - Western Larch SPZ
 - Lodgepole Pine (Interior) SPZ
 - White Pine SPZ
 - Sitka Spruce SPZ
 - Spruce Hybrid SPZ
 - Sitka Spruce Unknown Hybrid
 - Yellow Cedar SPZ
- Seed Plan Units - GRM**
 - Amabilis Fir SPU
 - Grand Fir SPU
 - Western Red Cedar SPU
 - Douglas Fir SPU
 - Western Hemlock SPU
 - Western Larch SPU
 - Lodgepole Pine (Interior) SPU
 - White Pine SPU
 - Sitka Spruce SPU
 - Spruce Hybrid SPU
 - Sitka Spruce Unknown Hybrid SP
 - Yellow Cedar SPU
- Seed Plan Units - GRM Outline**
 - Amabilis Fir SPU
 - Grand Fir SPU
 - Western Red Cedar SPU
 - Douglas Fir SPU
 - Western Hemlock SPU
 - Western Larch SPU
 - Lodgepole Pine (Interior) SPU
 - White Pine SPU
 - Sitka Spruce SPU
 - Spruce Hybrid SPU
 - Sitka Spruce Unknown Hybrid SP
 - Yellow Cedar SPU
- Seed Source - Natural Stand**
 - Active Seedlots
 - AT - Trembling Aspen
 - BA - Amabilis Fir
 - BG - Grand Fir
 - BL - Subalpine Fir
 - BN - Noble Fir
 - CW - Western Red Cedar
 - FD - Douglas Fir
 - HM - Mountain Hemlock
 - HW - Western Hemlock
 - LT - Tamarack
 - LW - Western Larch
 - PL - Lodgepole Pine
 - PW - White Pine
 - PY - Yellow Pine
 - SB - Black Spruce
 - SS - Sitka Spruce
 - SX - Spruce Hybrid
 - SXS - Sitka Spruce Unknown
 - YC - Yellow Cedar

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- Expired Seedlots
 - AC - Poplar
 - AT - Trembling Aspen
 - BA - Amabilis Fir
 - BG - Grand Fir
 - BL - Subalpine Fir
 - BN - Noble Fir
 - CW - Western Red Cedar
 - DG - Green/Sitka Alder (N)
 - FD - Douglas Fir
 - HM - Mountain Hemlock
 - HW - Western Hemlock
 - LA - Alpine Larch
 - LT - Tamarack
 - LW - Western Larch
 - PINUSYL - Scotch Pine
 - PJ - Jack Pine
 - PL - Lodgepole Pine
 - PW - White Pine
 - PY - Yellow Pine
 - SA - Norway Spruce
 - SB - Black Spruce
 - SS - Sitka Spruce
 - SX - Spruce Hybrid
 - SXS - Sitka Spruce Unknown
 - YC - Yellow Cedar

RESULTS & Mapview Learnlinc Module Handout



Appendix C-Spatial Data in RESULTS

- ROSC-represents – one-time spatial conversion using mapsheet and opening numbers in RESULTS and inventory spatial files.
- SP-represents SU spial data submitted since inception of RESULTS
- FC-represents forest cover spatial submitted since inception of RESULTS

| Region | District | District Code | All Openings | ROSC | SP | FC | % ROSC | %SP | %FC |
|--------|--|---------------|-------------------|---------|-------|--------|-------------------|------|-------|
| | | | Count of Openings | | | | % of All Openings | | |
| RCO | Campbell River Forest District | DCR | 7,497 | 3,453 | 256 | 382 | 46.1% | 3.4% | 5.1% |
| RCO | Chilliwack Forest District | DCK | 5,365 | 2,931 | 30 | 199 | 54.6% | 0.6% | 3.7% |
| RCO | North Coast Forest District | DNC | 1,646 | 1,126 | 36 | 84 | 68.4% | 2.2% | 5.1% |
| RCO | North Island - Central Coast Forest District | DIC | 8,173 | 3,606 | 112 | 387 | 44.1% | 1.4% | 4.7% |
| RCO | Queen Charlotte Islands Forest District | DQC | 1,981 | 644 | 25 | 126 | 32.5% | 1.3% | 6.4% |
| RCO | South Island Forest District | DSI | 4,552 | 1,649 | 106 | 134 | 36.2% | 2.3% | 2.9% |
| RCO | Squamish Forest District | DSQ | 3,667 | 2,862 | 31 | 205 | 78.0% | 0.8% | 5.6% |
| RCO | Sunshine Coast Forest District | DSC | 4,618 | 3,052 | 26 | 103 | 66.1% | 0.6% | 2.2% |
| RNI | Fort Nelson Forest District | DFN | 2,147 | 1,784 | 1 | 92 | 83.1% | 0.0% | 4.3% |
| RNI | Fort St. James Forest District | DJA | 4,575 | 1,984 | 140 | 844 | 43.4% | 3.1% | 18.4% |
| RNI | Kalum Forest District | DKM | 3,639 | 1,803 | 12 | 74 | 49.5% | 0.3% | 2.0% |
| RNI | MacKenzie Forest District | DMK | 5,250 | 3,885 | 22 | 103 | 74.0% | 0.4% | 2.0% |
| RNI | Nadina Forest District | DND | 10,435 | 6,155 | 888 | 1,848 | 59.0% | 8.5% | 17.7% |
| RNI | Peace Forest District | DPC | 6,362 | 3,742 | 234 | 1,003 | 58.8% | 3.7% | 15.8% |
| RNI | Prince George Forest District | DPG | 10,764 | 6,959 | 380 | 1,469 | 64.7% | 3.5% | 13.6% |
| RNI | Skeena Stikine Forest District | DSS | 4,229 | 3,483 | 30 | 328 | 82.4% | 0.7% | 7.8% |
| RNI | Vanderhoof Forest District | DVA | 5,862 | 2,818 | 522 | 1,173 | 48.1% | 8.9% | 20.0% |
| RSI | 100 Mile House Forest District | DMH | 5,803 | 4,195 | 113 | 519 | 72.3% | 1.9% | 8.9% |
| RSI | Arrow Boundary Forest District | DAB | 8,866 | 5,505 | 95 | 602 | 62.1% | 1.1% | 6.8% |
| RSI | Cascades Forest District | DCS | 9,149 | 7,151 | 73 | 1,375 | 78.2% | 0.8% | 15.0% |
| RSI | Central Cariboo Forest District | DCC | 10,761 | 5,780 | 147 | 341 | 53.7% | 1.4% | 3.2% |
| RSI | Chilcotin Forest District | DCH | 5,866 | 3,760 | 19 | 38 | 64.1% | 0.3% | 0.6% |
| RSI | Columbia Forest District | DCO | 4,540 | 3,081 | 184 | 392 | 67.9% | 4.1% | 8.6% |
| RSI | Headwaters Forest District | DHW | 7,262 | 1,559 | 99 | 546 | 21.5% | 1.4% | 7.5% |
| RSI | Kamloops Forest District | DKA | 8,414 | 3,452 | 231 | 619 | 41.0% | 2.7% | 7.4% |
| RSI | Kootenay Lake Forest District | DKL | 4,409 | 3,783 | 87 | 286 | 85.8% | 2.0% | 6.5% |
| RSI | Okanagan Shuswap Forest District | DOS | 18,213 | 11,046 | 104 | 1,513 | 60.6% | 0.6% | 8.3% |
| RSI | Quesnel Forest District | DQU | 12,548 | 5,671 | 201 | 705 | 45.2% | 1.6% | 5.6% |
| RSI | Rocky Mountain Forest District | DRM | 10,760 | 8,256 | 155 | 543 | 76.7% | 1.4% | 5.0% |
| BC | TOTAL | | 197,353 | 115,175 | 4,359 | 16,033 | 58.4% | 2.2% | 8.1% |

RESULTS & Mapview Learnlinc Module Handout

ROSC-represents – one-time spatial conversion using mapsheet and opening numbers in RESULTS and inventory spatial files.

SP-represents SU spital data submitted since inception of RESULTS

FC-represents forest cover spatial submitted since inception of RESULTS

| Region | District | District Code | All Openings | ROSC | SP | FC | % ROSC | %SP | %FC |
|--------|--|---------------|--------------------------------|-----------|---------|---------|-------------------|------|-------|
| | | | Sum of Opening Gross Area (ha) | | | | % of All Openings | | |
| RCO | Campbell River Forest District | DCR | 242,664 | 129,243 | 7,938 | 12,293 | 53.3% | 3.3% | 5.1% |
| RCO | Chilliwack Forest District | DCK | 219,522 | 147,105 | 299 | 4,409 | 67.0% | 0.1% | 2.0% |
| RCO | North Coast Forest District | DNC | 60,178 | 37,533 | 1,441 | 2,593 | 62.4% | 2.4% | 4.3% |
| RCO | North Island - Central Coast Forest District | DIC | 271,143 | 129,694 | 1,929 | 8,719 | 47.8% | 0.7% | 3.2% |
| RCO | Queen Charlotte Islands Forest District | DQC | 66,365 | 25,712 | 764 | 2,827 | 38.7% | 1.2% | 4.3% |
| RCO | South Island Forest District | DSI | 119,517 | 42,897 | 3,492 | 4,127 | 35.9% | 2.9% | 3.5% |
| RCO | Squamish Forest District | DSQ | 90,765 | 74,389 | 511 | 3,230 | 82.0% | 0.6% | 3.6% |
| RCO | Sunshine Coast Forest District | DSC | 123,856 | 93,440 | 223 | 1,770 | 75.4% | 0.2% | 1.4% |
| RCO | Fort Nelson Forest District | DFN | 128,076 | 106,190 | 53 | 4,198 | 82.9% | 0.0% | 3.3% |
| RNI | Fort St. James Forest District | DJA | 244,598 | 133,110 | 3,940 | 33,084 | 54.4% | 1.6% | 13.5% |
| RNI | Kalum Forest District | DKM | 181,266 | 98,309 | 373 | 2,645 | 54.2% | 0.2% | 1.5% |
| RNI | MacKenzie Forest District | DMK | 573,539 | 374,735 | 1,074 | 4,209 | 65.3% | 0.2% | 0.7% |
| RNI | Nadina Forest District | DND | 419,295 | 294,041 | 8,148 | 39,833 | 70.1% | 1.9% | 9.5% |
| RNI | Peace Forest District | DPC | 448,504 | 278,607 | 11,195 | 40,976 | 62.1% | 2.5% | 9.1% |
| RNI | Prince George Forest District | DPG | 771,585 | 570,121 | 19,362 | 68,169 | 73.9% | 2.5% | 8.8% |
| RNI | Skeena Stikine Forest District | DSS | 288,774 | 203,289 | 1,021 | 10,176 | 70.4% | 0.4% | 3.5% |
| RNI | Vanderhoof Forest District | DVA | 252,258 | 152,802 | 14,794 | 32,111 | 60.6% | 5.9% | 12.7% |
| RNI | 100 Mile House Forest District | DMH | 265,877 | 193,928 | 2,862 | 17,794 | 72.9% | 1.1% | 6.7% |
| RSI | Arrow Boundary Forest District | DAB | 247,271 | 155,719 | 2,418 | 14,247 | 63.0% | 1.0% | 5.8% |
| RSI | Cascades Forest District | DCS | 288,239 | 236,576 | 2,257 | 34,744 | 82.1% | 0.8% | 12.1% |
| RSI | Central Cariboo Forest District | DCC | 475,495 | 305,699 | 2,781 | 8,711 | 64.3% | 0.6% | 1.8% |
| RSI | Chilcotin Forest District | DCH | 308,227 | 216,537 | 912 | 1,483 | 70.3% | 0.3% | 0.5% |
| RSI | Columbia Forest District | DCO | 131,468 | 95,418 | 3,316 | 8,850 | 72.6% | 2.5% | 6.7% |
| RSI | Headwaters Forest District | DHW | 277,098 | 64,144 | 2,405 | 13,985 | 23.1% | 0.9% | 5.0% |
| RSI | Kamloops Forest District | DKA | 295,243 | 133,697 | 7,836 | 15,094 | 45.3% | 2.7% | 5.1% |
| RSI | Kootenay Lake Forest District | DKL | 114,577 | 101,531 | 1,926 | 5,466 | 88.6% | 1.7% | 4.8% |
| RSI | Okanagan Shuswap Forest District | DOS | 480,145 | 311,915 | 4,051 | 38,605 | 65.0% | 0.8% | 8.0% |
| RSI | Quesnel Forest District | DQU | 589,473 | 299,274 | 11,648 | 28,419 | 50.8% | 2.0% | 4.8% |
| RSI | Rocky Mountain Forest District | DRM | 387,187 | 317,135 | 3,082 | 10,764 | 81.9% | 0.8% | 2.8% |
| BC | | | | | | | | | |
| TOTAL | | | 8,362,205 | 5,322,787 | 122,050 | 473,528 | 63.7% | 1.5% | 5.7% |