



FOREST PRACTICES BRANCH

RESULTS INFORMATION SUBMISSION **SPECIFICATIONS**

Government Funded Silviculture Activities



Ministry of Forests and Range



1st Edition

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Forward

This document is the first edition of RESULTS submission procedures for government funded treatments. The document was developed in response to questions received by Forest Practices Branch and RESULTS Help Desk staff on how to process submissions for government funded treatments. Some issues with respect to submissions for government funded treatments are not yet resolved, and future editions of this guide will incorporate further guidance as outstanding issues become resolved.

Please send feedback to: FORHISP.APPHELP@gems5.gov.bc.ca

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1. Purpose

This guide summarizes requirements for preparing and submitting information pertaining to government funded silviculture activities (treatments and surveys) to RESULTS (Reporting Silviculture Updates and Land status Tracking System).

The ministry no longer publishes forms for data compilation. Users may create their own forms based on the requirements published in this guide. Detailed coverage on how to use RESULTS is on the RESULTS web site <http://www.for.gov.bc.ca/his/results/> and the BC Forest Service E-Learning System <http://learningstore.com/bcmof/>.

2. Application

This guide provides direction to Ministry of Forests and Range (ministry) clients, who are required by the ministry to submit data to RESULTS: 1) in accordance with the *Forest Planning and Practices Regulation*, sections 86, 87, and 88; and/or, 2) in accordance with ministry contractual agreements. It is the policy of the ministry that areas under ministry responsibility, and not otherwise subject to legislated requirements, are managed in the same way as areas subject to the requirements of the *Forest and Range Practices Act* and associated regulations.

This guide applies to silviculture operations that are subject to government program funding including (but not limited to):

1. Forests for Tomorrow (FFT; e.g., FRPA 108, Backlog and impeded, Current fire and pest)
2. Forest Investment Account (FIA; e.g., Backlog and impeded, Current fire and pest, pre-1987 Tree Farm Licence areas)
3. Forest Stand Management Fund (FSMF; e.g., non-replaceable forest licences, community salvage)
4. Small Scale Salvage Program¹ (SSS; e.g., forestry licences to cut with free growing obligations)

Regardless whether the Electronic Submission Framework (ESF) or RESULTS is the mode used for data entry, the required data fields are the same. In some cases, names of the fields in RESULTS may be slightly different from field names of other software used for data entry and submission through the ESF if periodic software updates are not synchronous with systems updates in RESULTS. Where field names of data input software differ from the names in this guide, consult with the applicable software provider to verify identify of the required fields.

A "user" is defined as a person employed by a client or the ministry to load data into RESULTS.

¹ Small scale salvage areas must be reported in accordance with these specifications and with the *Draft Bulletin: Reporting Requirements for Small Scale Salvage Forestry Licences to Cut with Free Growing Obligations (under development)*.

3. Introduction

The RESULTS application tracks silviculture information by managing submissions of opening definitions, disturbances, silviculture activities and obligation declarations as required by the *Forest and Range Practices Act* and associated *Forest Planning and Practices Regulation*. RESULTS may also be used to track silviculture information for activities that are managed under the *Woodlot Licence Planning and Practices Regulation (WLPRR)*.

RESULTS also tracks managed natural disturbance stands, and any free growing stands that previously had basic silviculture obligations, under government funded programs.

RESULTS stores the following information:

- opening definitions
- stocking standards
- planned and completed harvesting and silviculture activities
- forest cover & land status summary
- milestone declaration (regeneration and free growing)
- amendment history
- rendered maps

The information supplied to RESULTS serves business needs such as:

1. to calculate statistics that are used to support derivation of the provincial annual allowable cut allocations as part of the provincial timber supply analysis;
2. to report on performance of key outcome indicators in the ministry's *Annual Service Plan Report*;
3. to report forest compliance and forest cover statistics in the *BC State of the Forests* report;
4. to monitor licensees for compliance with legal requirements; and,
5. a mechanism by which to procure funding for government funded programs (e.g., FIA, FFT).

4. Data Submission Requirements

Submissions with maps must be processed through the ESF. For ESF submissions, the required text data format is in Extensible Markup Language (XML) and spatial data in Geography Markup Language (GML).

Instructions for formatting ESF submissions, including xml schema and examples are at <http://www.for.gov.bc.ca/his/results/techDocs.htm>. Additional support is available at the ESF web site <http://www.for.gov.bc.ca/his/esf/>.

Data can be submitted to RESULTS by four methods:

1. purchase data editing software (e.g., eziLink) that can generate and submit the required XML and GML schemas for ESF submissions;
2. employ a data service provider to prepare and submit the data through ESF;

3. larger companies, including BC Timber Sales, use their own forest management software (e.g., GENUS, Phoenix, Inform) to submit data from their databases to RESULTS through ESF ; or,
4. directly enter text data into RESULTS.

Table 1 provides an overview of data entry points for different RESULTS submissions.

Table 1 Point of Data Entry for different types of RESULTS submissions

Type of Submission	Point of Data Entry	
	ESF	RESULTS Online
Opening Definition	Yes	Not recommended (given spatial requirements)
Amendments	Yes	Yes (if substantial changes to NAR areas or removal or deletions to SU, then ESF given spatial requirements)
Activity – Disturbance Completed	Yes	Yes
Activity-Silviculture Completed	Yes	Yes
Activity – Planned for simple scheduling	Yes	Yes
Activity – Planned using Treatment Regime & Projects	No	Yes
Forest Cover – Submission for disturbance, prior to regeneration & late free growing due	Yes	Not recommended (given spatial requirements)
Milestones	Yes	Yes

4.1. Options for loading data to RESULTS

Clients may:

1. Load the data to RESULTS themselves; or,
2. Secure qualified service providers to load the data to RESULTS on their behalf.

A partial list of service providers is at

<http://www.for.gov.bc.ca/his/FT/serviceProviders.htm>

Regardless of whether a client loads the data to RESULTS directly or uses a service provider, the data requirements are the same.

Two methods may be used to load data to RESULTS, depending on the information:

1. Uploading a properly formatted (text and spatial) submission document through the ESF to RESULTS (<http://extranet7.for.gov.bc.ca/esf/submissionWelcome.do>); or,
2. Direct (text only) entry in the RESULTS application (<http://extranet7.for.gov.bc.ca/results/>).

Forest cover maps (GLM) and stocking standards should be submitted electronically through the ESF.

4.2. Access and authorization to BC Government Systems

Depending on the method used to load data to RESULTS, clients (or service providers working on their behalf) require access to: RESULTS and/or ESF.

RESULTS and ESF systems can be accessed by authorized users with either BCeID or IDIR accounts.

1. **BCeID** – an online service for private sector clients to securely access any BCeID-participating British Columbia government web site.
 - a. To apply for a BCeID account for submissions relating to FIA, SSS and FSMF programs, see <https://www.bceid.ca/>.
 - b. BCeID accounts cannot be used by more than one client. For areas in which license holders conduct government funded activities on other license holders areas, contact APPHelp for advice.
2. **IDIR** – an information directory domain for ministry employees to securely access British Columbia government systems. IDIR accounts can be issued to users not directly employed by the ministry² (e.g., ministry contractors) under the following conditions:
 - a. The IDIR account is never used by anyone other than the person to whom it has been issued.
 - b. To apply for an IDIR account, complete the IDIR Account Application Form (Appendix C – Request for IDIR Account) and submit it to:
 - i. *Forests for Tomorrow Program*, @ FAX 250-387-2136, for submissions relating to the FFT program; or,
 - ii. the applicable ministry project administrator, for submissions relating to other programs.
 - c. Include the following information in IDIR account requests:
 - i. name and contact information of the client(s) for whom the applicant processes RESULTS data (including the name of the ministry contract administrator where applicable)
 - ii. full name of the applicant
 - iii. address of the applicant
 - iv. e-mail of the applicant
 - v. phone number of the applicant
 - vi. length of time required for the account
 - vii. required authority level(s)
 - viii. description of the nature of the work for which the account is required
 - ix. statement regarding whether the applicant has been authorized by the client to submit data on behalf of the client
 - x. statement of the applicant's credentials (e.g., registration with professional organization such as the *Association of British Columbia Forest Professionals*)

² It is recommended that IDIR accounts be issued to contractors who submit information in relation to areas managed by the ministry.

- d. After the ministry project (or FFT) administrator receives the application for the IDIR account, s/he checks it for completeness and accuracy and forwards it to the systems contact in his/her office. The systems contact will process the IDIR application.
- e. Once IDIR is granted, the applicant must contact APPHelp FORHISP.APPHELP@gems5.gov.bc.ca to request appropriate RESULTS authority (consistent with the initial application request).

4.2.1. ESF and RESULTS authority levels

ESF and RESULTS have various authority levels that allow users to perform certain functions.

Several authority levels are available, depending on account and function. The top authorities generally include functions available in lower authorities:

1. **RESULTS Approval:** can create new opening definitions, assign openings and approve opening-related information, including amendments, standards, and FRPA s. 108 application (ministry IDIR only)
2. **RESULTS Declaration:** can make an on-line declaration (RPF's only)
3. **RESULTS Update:** can update opening-related information
4. **RESULTS Report:** can run reports through the Corporate Reporting System (CRS)
5. **RESULTS View:** can run general inquiries

Where a user (or service provider) does not have authorization to access and update RESULTS data, or upload data to RESULTS through the ESF, as required, the client (who employs the user or service provider) should follow procedures on the RESULTS web page <http://www.for.gov.bc.ca/his/results/access.htm>

Users who load data to RESULTS, either directly or through the ESF, must have the necessary authority (for the submission type; e.g., 'update', 'declaration', and/or 'approval'), qualifications and training.

4.2.2. Support

1. The ministry provides assistance to users who encounter difficulties through a RESULTS Support service on the RESULTS web site <http://www.for.gov.bc.ca/his/results/support.htm>.
2. New users should work closely with someone knowledgeable in ESF submissions to try to submit one record successfully before setting up a batch of files (to minimize the occurrence of mass submission failures resulting from systematic coding errors).

4.2.3. Software

Data is submitted to RESULTS through the ESF by uploading an XML and/or GML document that adheres to the ministry data schema requirements (<http://www.for.gov.bc.ca/his/results/techDocs.htm>). Specialised software is required to generate the XML and GML documents.

1. Products are available from different vendors to generate and submit RESULTS documents.
2. Users (or service providers) must be trained in the use of these products.
3. Forest management software vendors can provide cost and options for the different purchase/service/training and support packages they sell.

Example:

eziLink, produced by Forsite, can create a RESULTS XML submission. It can be linked to an existing database with a plug-in (i.e., a custom MS Access database, Phoenix, etc), or it can be used for manual attribute data entry. This tool processes RESULTS, FTA and ABR submissions and allows users to check the status of an ESF submission.

Spatial information can be imported (in multiple formats) into, and manipulated within, *eziLink* as required. *eziLink* has some tools for checking spatial topology and generating areas. Once a user is satisfied with the attribute and spatial data s/he can click the **Upload** button. *eziLink* uses spatial data that are either ERSI shape or Microstation IGDS file types. Compatible spatial files must be prepared to generate the required GML portion of the submission.

All ministry districts have *eziLink* licences.

Table 2 compares online versus *eziLink* software and Data Service Providers capabilities to handle key business processes in RESULTS.

Table 2 Comparison between online and software capabilities

Process	On-line Authority*	<i>eziLink</i> / Data Service Providers
Opening Creation; Establish SU	A**	✓
Amendment Request	U, D	
Amendment Approval/Rejection	A	
Basic Planning	U, D, A	✓
Completed Activities	U, D, A	✓
Forest Cover	-	✓
Milestone Declaration	D, A	✓
Map Submission (opening, SU, forest cover)	-	✓

* "U"-update; "D"-declaration; "A"-approval

** Ministry staff create "opening shells" and assign opening numbers to openings created by natural disturbances.

5. Data specifications

Data requirements in this guide apply regardless of the mechanism used to submit the data. Updates that include maps must be submitted through the ESF. District staff and contract administrators may include additional requirements outside the minimum requirements articulated in this guide. Minimum requirements have been designated to assist districts and their clients to meet the ministry's service plan commitments and ensure more complete data for timber supply analysis.

In RESULTS, the **Help** button, located at the top right of each screen (on the application menu), is specific to each screen and returns topics relevant to the current screen.

5.1. Program Areas

Different funding sources (e.g., FFT, FIA) may fund the same program areas (e.g., Backlog, Current fire/pest), depending on annual ministry budget allocations. Regardless of funding source, the data requirements are the same and should be submitted in accordance with this guide.

5.2. Opening categories and funding sources

Opening categories are codes (Table 3) in RESULTS used to classify program areas. Because funding sources may overlap some program areas, separate funding source codes (Table 4) are used to classify funding allocation. The shaded codes are commonly used for current government funded programs.

Table 3 Opening Category Codes

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 part of contractual agreement
EXCLU	Openings excluded from Crown managed forests
FG	Opening has achieved free growing
FTBCT	Forest Tenure – BC Timber Sales
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
FTSBF	Forest Tenure - Small Business Forest Enterprise Program
FTWL	Forest Tenure - Woodlot: Site Plan
NDAML	Natural Disturbance - area-based Major Licensee
NDCF	Natural Disturbance - Community Forest
NDFS	Natural Disturbance - forest service
NDVML	Natural Disturbance - volume-based Major Licensee
NDWL	Natural Disturbance - WL License
NREQ	Areas where SP/SMP
P87	Pre-87 areas that is either NSR, or stocked but not FG
SMPCF	Stand Management Prescription - Community Forest
SMPEX	Areas where exemptions to SMP
SMPFS	Stand Management Prescription - Forest service
SMPML	Stand Management Prescription - Major Licensee
SMPWL	Stand Management Prescription - Woodlot License
SPEX	Areas where exemptions to SP
UHCF	Unauthorized Harvest – Community Forest
UHFS	Unauthorized Harvesting – Forest Service
UHML	Unauthorized Harvesting - Major Licensee.
UHWL	Unauthorized Harvest - Woodlot License.

Table 4 Funding source code

Code	Description
BCT	BC Timber Sales
CL	Catastrophic Losses
FID	Forest Investment Account - FRPA 108
FIL	Forest Investment Account - licensee administered
FIM	Forest Investment Account - ministry administered
FIV	Forest Investment Vote
FMC	COMFOR
FME	Forest Worker Development Program (non-MOF funded)
FMY	Youth Fund
FR	FRDA
FRP	FRPA Application For Relief
FTL	Forests for Tomorrow Lic Admin
FTM	Forests for Tomorrow MOF Admin
GA	Other Agencies or Voluntary Work
GAC	Corrections
GFS	Forest Stand Management Fund
GJF	Job Creation, Federal
GJJ	Job Creation, Joint
GJM	Job Creation
IA	Industrial Appraisal
IIR	Industrial Incr. 04:58:29 PM
IIV	Industrial Incr. 04:58:29 PM
IO	Industry Outstanding
IR	Industry Royalties
LFP	Licensee Funded Program
M	Ministry
O	Operational
RBC	Forest Renewal B.C.
RBL	Forest Renewal B.C. - licensee administered
RBM	Forest Renewal B.C. - ministry administered
S	Section 88
SBF	BC Timber Sales
SMF	South Moresby Forest Replacement Account
VFH	Forest Health
VFP	Current Reforestation
VG	Ministry Outstanding
VI	Provincial Incremental
VOB	Ministry Vote, SBEP
VOI	Industry Outstanding
VRT	Afforestation
XXX	No Funding Source

5.3. Inspection, Reporting, and Records Management

5.3.1. Inspection

Government funded silviculture activities should be inspected for performance quality. General inspection guidelines are available for activities without a formal inspection system (planting and spacing have formal inspection systems). Different activity sections of the FIA Land Base Investment Program website http://www.for.gov.bc.ca/hcp/fia/landbase/stand_establish_treatment_eligible_act.htm provide inspection systems and guidelines. District staff and contract administrators may specify additional inspection requirements.

5.3.2. Reporting

After completing and inspecting (for quality control) a survey, treatment plan, or treatment, correct any information that has not met inspection standards, and load the information into RESULTS through the ESF.

5.3.2.1. Attachments

RESULTS can store attachments such as:

- Excel spreadsheets
- JPeg files
- Word documents
- Pdf files
- Other documents on an opening that provide long term retention and documentation of plans, results, or observations

To add file attachments to a RESULTS opening record (Figure 1):

- 1) Tab-**Openings** – Select **Attachments**
- 2) Enter opening information to retrieve opening record.
- 3) Beside **File Name** – Select **Browse**. The user's computer Explorer program will be activated.
- 4) Select a file. The path to the file on the user's hard drive will display in the **File Name** window.
- 5) In the **Description** window, enter a description for the file.
- 6) Select **Save**.

5.3.3. RESULTS Government Funded Accomplishment Report

After all information submissions for a given project have been loaded to RESULTS, contractors or clients should send an Excel spreadsheet containing a list of Opening_ID's, of all the openings to which data was loaded, to their ministry project administrators. Ministry project administrators should forward these lists to FORHISP.APPHELP@gems5.gov.bc.ca under the email header title: **RESULTS: Government Funded Accomplishment Report**. This report is used to generate statistics for Ministry Service Plan annual reports.

5.3.4. Records Mangement

One paper copy of project records, including contract and financial documents, field and survey data, and project maps, should be stored at the responsible ministry office of the project administrator (applicable regional or district office).

Figure 1 RESULTS Attachments

5.4. RESULTS data and mapping standards

Three categories of requirements must be fulfilled with each submission:

1. XML data requirements (text portion of the submission);
2. GML data requirements and spatial standards (spatial portion of the submission); and,
3. the project's data requirements.

Data and mapping standards are described in:

1. **Draft Silviculture Information Submission Guide**
<http://www.for.gov.bc.ca/hfp/publications/00026/pdf/fs708-guide.pdf>
2. **RESULTS technical specifications**
<http://www.for.gov.bc.ca/his/results/techDocs.htm>
3. **XML and GML schema requirements**
<http://www.for.gov.bc.ca/his/results/techDocs.htm>

RESULTS users (including contractors) are expected to be familiar with the data requirements and required precision and accuracy standards.

5.5. Opening definition

Opening definitions must exist in RESULTS before other data can be loaded. Information can be submitted through the ESF under a new Opening ID together with associated map information.

District staff or users with IDIR accounts with appropriate authority (update, declaration or approval) must create an opening definition for:

1. a new opening with a natural disturbance designation,
2. a combination of newly (natural) disturbed area with a pre-existing opening; or,
3. a pre-1987 opening under a Tree Farm Licence.

For any tenured openings in which no silviculture obligations will be established (no stocking standards), set the SPExempt indicator to "Yes".

Once opening definitions are created by district staff, they may be provided to users with BCeID accounts (e.g., contractors, service providers) who load data into RESULTS. Some districts choose to provide some of their contractors with IDIR accounts so that they can create opening definitions (in situations where district staff may not have time).

Where the disturbance occurs on an existing opening with free growing obligations, use the existing opening definition. In these cases, the site plan may require modification, including to stocking standards, depending on the nature of the disturbance and whether or not they impact attainment of the existing silviculture obligations.

5.5.1. Create a new opening number

Various methods for creating opening numbers are possible depending on whether or not a district has opted to auto-generate opening numbers, and whether or not the opening is under a tenure.

- 1) Where districts have NOT OPTED to use the auto-generate opening number feature of RESULTS:
 - a) The District provides the submitter the next opening number.
 - b) District staff can create a “shell” opening in RESULTS and attach an opening number to it:
 - i) Determine the next opening number(s) for the mapsheet on which the new opening(s) will be located:
 - (1) Logon to CRS (IDIR required).
 - (2) Select **Data Download Reports**.
 - (3) Select **RDD001-Opening Report**.
 - (4) Enter **District name**.
 - (5) Leave other setting as defaults.
 - (6) Set the Auto filter on the **mapsheet number** and select the desired mapsheet.
 - (7) Use the sort ascending function on opening number to determine the next available number, but allow for an estimate margin for any licensee submission already in progress; or,
 - (8) Assign a block of free numbers to opening shells.
 - ii) Create opening shells:
 - (1) Launch the **RESULTS301 Opening Inquiry** screen.
 - (2) Select **Add** to launch the **Add New Opening Screen** (Figure 2).
 - (3) In the **Add New Opening Screen**, enter the Opening Category, Area, and Approved Date (supplied by the submitter).
 - (4) District staff enter and save an assigned Mapsheet/Opening Number. (Mapsheet/Opening numbers may also be assigned to existing Opening IDs in the RESULTS301 Opening Inquiry screen).
 - (5) Select **Save** (Figure 3). This creates an opening in RESULTS with a unique system generated Opening ID number.
 - (6) District staff provide (via email/phone/fax) the submitter with either the system generated Opening_ID identifier or Mapsheet/Opening Number for use on the submission.
 - c) If the District does not create a “shell” opening with an opening number, then any Opening Definition ESF submission will automatically create a Mapsheet only designation in RESULTS. District staff must enter and save the opening number.

RESULTS301 - Opening Inquiry

[Back](#)

Opening: Licensee Opening Id:

SP Exempt: Opening Status:

Opening Category: Dist Admin Zone:

Tenure Type: Block Status:

Admin Forest Org: TSB:

Management Unit Type: Management Unit ID:

Tenure Admin Org:

Original Approval: Current Amendment:

Actual Disturbance Start:

Post Harvest Declared Date:

Regeneration Declared Date: Regeneration Offset: Regeneration Due Date: Regeneration Overdue:

Free Grow Declared Date: Free Grow Offset: Free Grow Due Date: Free Growing Overdue:

Previous Stand Type:

Previous Timber Type

Species 1: Species 2:

Age Class: Height Class: Stocking Class:

Site Index: Site Index Source:

Maximum Allowable Permanent Access: % Gross Area (ha):

Last Updated: Opening Comments:

Spatial data exists:

Site Plan/Forest Cover Map Date [Map](#)

[Save](#) [Delete](#) [Add](#)

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Figure 2 RESULTS301 – Opening Inquiry Screen.
Adding an opening "shell".

RESULTS302 - Add New Opening

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Org Unit:

Opening:

Licence No:

Opening Category:

Opening Location:

Cutting Permit: Cut Block:

Opening Gross Area: Approval Date (YYYY-MM-DD):

[Save](#) [Cancel](#)

[Feedback](#) [Disclaimer](#) [Privacy](#) [Copyright](#)

Figure 3 RESULTS302 – Add New Opening Screen.
Opening Definition fields.

- 2) Where districts have OPTED to use the auto-generate opening number feature³ of RESULTS:
- a) Tenured Openings:
 - i) If the opening exists in FTA (i.e., is tenured), a submission can be made to RESULTS using the Licence/CP/Block tenure key identifier or the TimberMark key. The submission must contain spatial information.
 - ii) The mapsheet and opening number is auto-generated when the submission is uploaded into RESULTS.
 - b) Openings not under Tenure:
 - i) District staff provide the submitter with the next opening number. (See 1b). Auto-generate feature is not applicable for not-tenured openings.
 - c) Openings under a TFL with harvest commencement prior to October 1, 1987:
 - i) District staff (or someone with IDIR account, with at least Update authority) set up opening record shells for licensee to submit via ESF (see 1b).
 - (1) Select **Add** (bottom of the **Opening Inquiry** screen) to create a new opening for the district.
 - (2) Set **SP Exempt** to <blank>.
 - (3) Enter the appropriate tenure information (e.g., TFL number).
 - (4) Leave the **Cutting Permit**, **Timber Mark** and **Cut Block** fields <blank>.
 - (5) Enter **Opening Gross Area** and **Approval Date** (prior to 1987-10-01).
 - (6) Add other applicable identification descriptors (e.g., cutting permit, cutblock).
 - (7) Select **Save**. Once opening creation is confirmed, a new Opening ID is assigned.
 - (8) District staff provide the Opening ID to the licensee for the ESF submission.

³ To activate the Auto-Generate Feature, the District can make a request to the RESULTS Administrator through APPHELP FORHISP.APPHELP@gov.bc.ca.

5.5.2. Opening Definition Data Requirements

Fields in Table 5 are required with opening definition submissions. Opening definition fields not listed in Table 5 are optional. This data must be submitted after the Opening IDs are assigned by the district for each opening in the submission.

Table 5 Opening definition data requirements

Field	Data	Notes
Mapsheet Grid		May be auto generated from spatial submission.
Mapsheet Letter		
Mapsheet Square		
Mapsheet Quad		
Mapsheet Subquad		
Opening Number	<blank>	District to assign (or autogenerated only for tenured cutblocks).
Opening Category Code		Select appropriate code.
Opening ID	<blank>	System to autogenerate
Opening Gross Area	Based on survey	
Previous Stand Type		Use existing forest cover inventory (the previous label that was on the inventory files)
Previous Species1 Code		
Previous Species2		
Previous Age Class		
Previous Height Class Code		
Previous Stock Class Code		
Previous Site Index Code		
Previous Site Index Source		
Site Plan Exemption	<blank>	Set to <blank> for natural disturbance treatment areas not covered by site plans or silviculture prescriptions.
	Y	Set to "Y" for tenured openings to which no site plan or silviculture prescription applies. (Unique stocking standards can be created for these openings).

5.5.3. Overlapping openings

When natural disturbances overlap existing openings, some additional steps are required to ensure that areas are not double-represented in RESULTS. (Double representation can introduce errors in Timber Supply Analysis).

The following interim procedures may be used to redefine areas on which a natural disturbance overlaps an existing opening. Scenarios are described based on permutations of three conditions:

A. Responsibility:

M – Ministry: includes FFT, NRFL, FIA,

I – Industry/private sector: includes Tenures, Small-scale salvage, BCTS

B. Silviculture Obligation Status (immediately before disturbance):

FG – Free Growing

NFG –Non-free growing

C. Overlap of existing opening:

Complete – disturbance completely overlaps opening

Partial – undisturbed portion of opening remains "external" to area of disturbance; includes "donuts" (area of disturbance falls within boundaries of original opening) and "slivers" (area of disturbance bisects or fragments opening).

Two options are available for redefining openings that have been subject to disturbance:

1) Opening Removal (Figure 4)

- a) When an opening is removed from RESULTS, its opening record is stored (in its entirety) in an archived database and can be reviewed later as needed, through special reports. However, no link exists between the removed opening and any new opening that is superimposed on the area originally occupied by the opening.
- b) Removals may be considered under these circumstances:
 - i) When retention of opening history is not important for immediate forest management needs (e.g., a flood or fire has completely destroyed a stand, and historical information is not required for the new management objectives of the stand)
 - ii) When the opening is under ministry responsibility
- c) Removals are subject to:
 - i) District manager approval (through internal district procedures)
 - ii) Processing by ministry headquarters

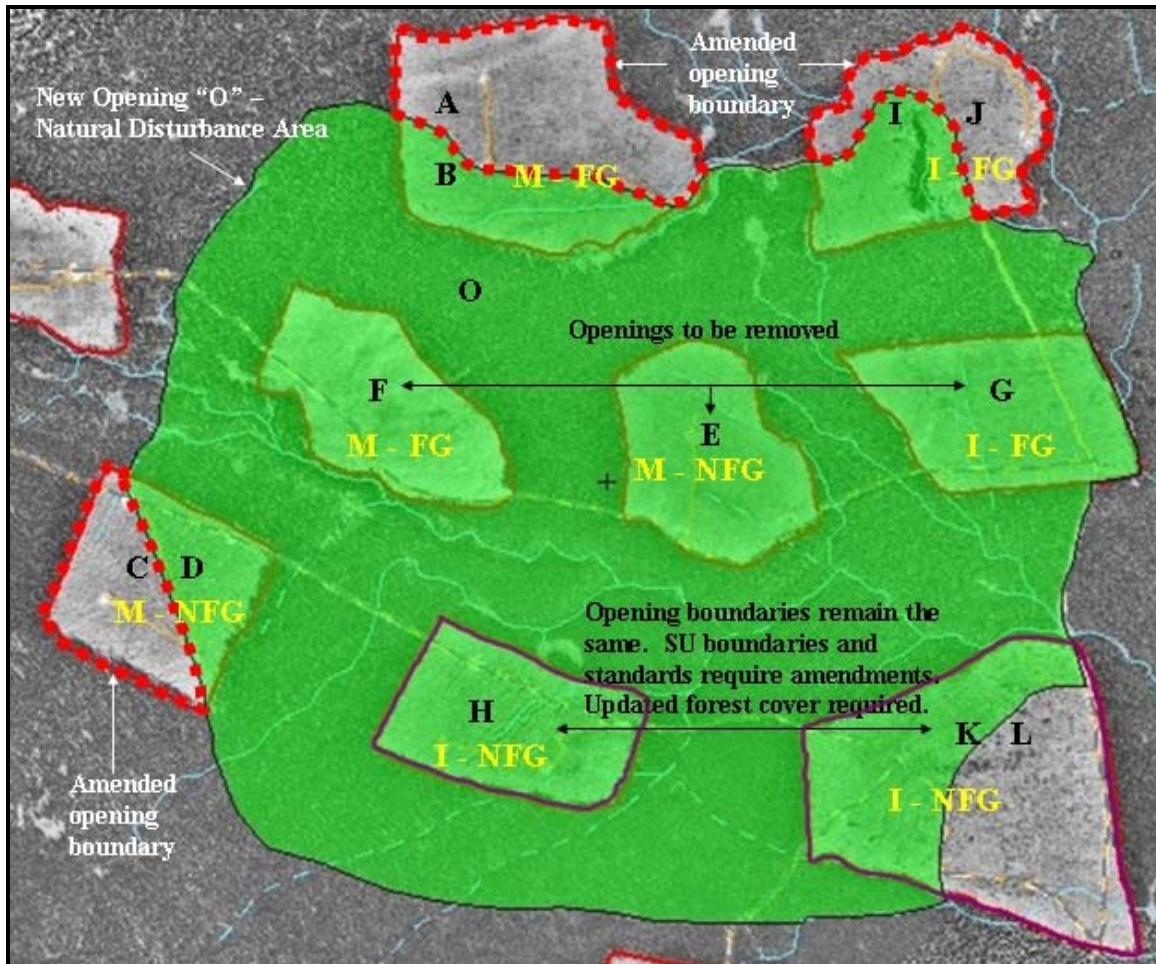


Figure 4 Removing openings under ministry reforestation responsibility

Funding source: I (Industry), M (Ministry); Status before disturbance: FG (Free Growing), NFG (Not Free Growing)

2) Opening Amalgamation⁴ (Figure 5)

- a) When openings are amalgamated in RESULTS, all opening records associated with the original openings are preserved within the opening record of the new amalgamated opening.
- b) Amalgamations may be considered under these circumstances:
 - i) When retention of previous opening history is important for immediate forest management needs (e.g., an area under insect attack expands annually and stocking standards and management objectives are broadly applied to areas within the amalgamated opening)
 - ii) When the area subject to the disturbance and the original openings are under the same responsibility (e.g., entire area is ministry responsibility), tenure (where applicable), and opening category

⁴ Basic instructions for amalgamating openings are in http://www.for.gov.bc.ca/ftp/his/external/!publish/OnLineClassroom/Results/RESULTS_2_0/RESULTS%202.0%20what%20is%20new%20July%2022%20%202005.pdf.

- c) Amalgamations are subject to:
 - i) Direction provided by district staff
 - ii) District approval to complete the submission
 - iii) Users must be trained on the amalgamation function prior to use

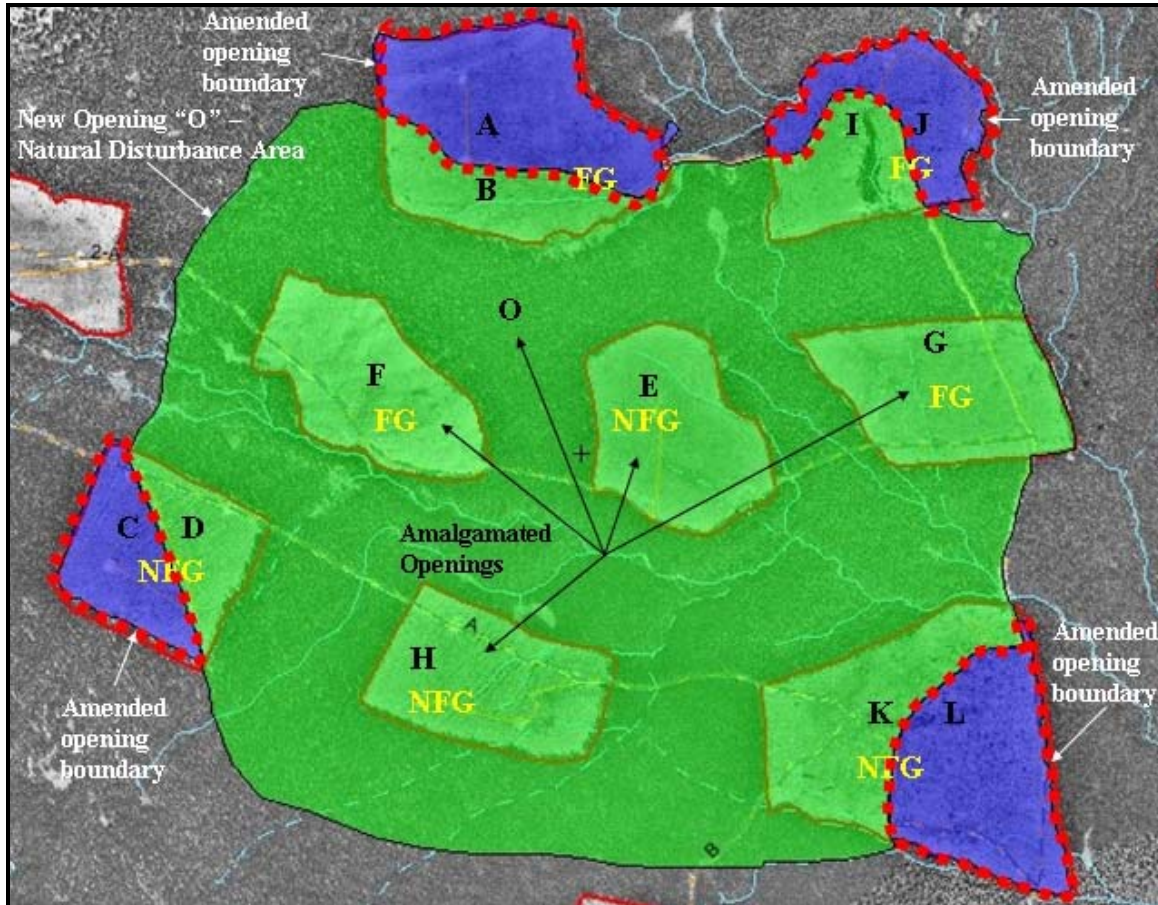


Figure 5 Amalgamating openings in a large area under ministry reforestation responsibility
Status before disturbance: FG (Free Growing), NFG (Not Free Growing)

Because natural disturbances tend to be spotty and messy, these procedures should serve primarily as conceptual guidelines. A forester or surveyor will make a professional field judgment for creating the new polygon boundaries (normally not the same as the ones that existed prior to the disturbance), according to the unique landscape features and management objectives for the area.

5.5.3.1. Openings under industry (licence holder) responsibility

For areas that are industry responsibility (areas not yet declared FG), all opening boundaries remain the same as they were prior to the disturbance regardless whether the disturbance partially or completely affects the area. For this case, submit new stocking standards and forest cover information reflecting the management strategy and forest

cover as a result of the disturbance. Opening removals do not apply to licensee responsibility openings with free growing obligations.

5.5.3.2. Openings under ministry responsibility

In general, for openings that are ministry responsibility (including industry-managed areas previously declared FG) that have been partially affected by a disturbance, the opening boundaries must be remapped such that the revised opening boundaries reflect only the portion of the area outside the disturbed area. This portion can be managed in accordance with existing standards (where applicable), whereas the disturbed portion will be managed with the remaining disturbed area as part of a new (series of) polygon(s).

The same principle applies to openings within which a disturbance occurs, or openings bisected or fragmented by a disturbance. The original opening boundaries are remapped and amended to exclude the area of the disturbance; and the area of the disturbance becomes a new opening (or part of a multi-part opening).

Openings under ministry responsibility that have been completely affected by a disturbance may be removed or amalgamated.

In all cases, a new opening definition must be created and submitted for the area covered by the disturbance, along with new stocking standards and forest cover information.

To remove openings:

- 1) Submit new opening definition(s) and forest cover attributes and GML maps for the area(s) that cover the original opening. While the new openings may not be the same shape as removed openings, new opening polygons or series of adjacent groups of new opening polygons must, collectively, completely cover all areas represented by removed openings.
- 2) Send a request to APPHelp (FORHISP.APPHELP@gems5.gov.bc.ca) to remove the original opening(s). In the request, provide the following information (Appendix D – Application for Removing an Opening may be used for this purpose):
 - a) Opening_ID of the opening to be removed;
 - b) Reason why the opening is to be removed;
 - c) State whether the opening is under Ministry responsibility (only Ministry responsibility openings can be removed in the case of natural disturbances);
 - d) Provide the Opening_ID(s) of the opening(s) that (collectively) completely cover the area represented by the opening to be removed. (These Opening_IDs can only be submitted after the new opening definitions and forest cover submissions have been loaded to RESULTS).
 - e) State whether the District Manager has approved the request (for removing the opening); and,
 - f) Provide the name and telephone number of the Registered Professional Forester (RPF) who prepared/is accountable for the submission (recommendation to remove, and preparation of new opening definition information).
- 3) Ensure that a record of DM approval to proceed with request to remove the opening is on the opening file (for audit purposes).

- 4) If the opening is successfully removed, APPHelp will send a notification to the district contact (who submitted the request) stating that the opening has been removed.
- 5) If the request for removing the opening is declined, APPHelp will send a notification explaining the reason for the decline.
- 6) If several openings must be removed, send a list, along with the required information for each opening (see #1).

5.6. Stocking standards (for NSR areas)

Stocking standards and biogeoclimatic ecosystem classification (BEC) information are required for naturally disturbed areas under ministry responsibility that are identified as not satisfactorily restocked (NSR).

While these areas have no legal obligations, the objective is to manage them similar to areas covered under FRPA. This will allow the ministry to satisfy key performance indicators in accordance with the ministry's service plan. Stocking standards are assigned to establish the regeneration and free growing milestones to allow the ministry to monitor reforestation progress.

Reference materials for assigning and submitting stocking standards are at http://www.for.gov.bc.ca/his/results/fsp_sss.htm. Update authority is required to submit stocking standards for an opening to RESULTS. (Where applicable, newly created Stocking Standard IDs and amended stocking standards, are first submitted to the ministry Inbox for approval before being loaded to the opening).

Stocking standards may be assigned in one of two ways:

1. In accordance with the ***Reference Guide for Forest Development Plan Stocking Standards*** http://www.for.gov.bc.ca/ftp/hfp/external!/publish/Stocking%20Standards%20for%20FDPs/Reference_Guide.xls. (See Appendix A). The appropriate Standards ID (from the guide) that matches the desired stocking standards may be used for all government funded projects instead of supplying all the required standards. Data requirements in Table 6 apply.
2. Unique standards may be created for given openings or standards units. This may be desirable in stands with unique management objectives or ecological characteristics. In this case, the stocking standards must be approved by the district manager. Data requirements in Table 7 apply.

5.6.1. Stocking Standards data requirements

All fields in Table 6 or Table 7 are required with stocking standard submissions, depending on the option chosen to assign stocking standards. Stocking standards fields not listed in these tables are optional.

Use the ESF if submitting spatial information with stocking standards.

Stocking standards text (only) fields can also be accessed through the **RESULTS310 - Stocking Standards** screen.

- 1) Tab-Openings – Select **Stocking Standards**.
- 2) Enter opening information to retrieve opening record and select **Go**.
- 3) Follow instructions for loading Stocking Standards (for applicable Option) at ftp://ftp.for.gov.bc.ca/HIS/external/!publish/OnLineClassroom/Results/Stocking_Standards/
 - a) Where an opening is not associated with a tenure, use the correction or amendment button to activate the stocking standards input fields. (Figure 6)
 - i) Correction – does not allow SSIDs to be input. (Figure 7)
 - ii) Amendment – allows SSIDs to be input. (Figure 8)
- 4) Enter the required data from Table 6 or Table 7 (for applicable option).

RESULTS310 - Stocking Standards 1 of 1

Back

SU: Net Area To Be Reforested (ha): Expiry Date:

Max Soil Disturbance: Comment:

Standards ID: Standards Name: Amended: N

BGC Zone	BGC Subzone	Variant	Phase	Site Series	Site Phase	Serial

Regen Obligations: ☐ Regen Early Late

No Regen Obligations: ☒

Additional Standards:

Layer	Species Ht(m)		Well Spaced Trees (st/ha)				Post Spacing Density(st/ha)		Max Conif (st/ha)	Ht To Comp
	Preferred	Acceptable	Target	Min	Min Pref	Min Ht(m)	Base Area	Min		

To RESULTS311 **To RESULTS312**

Correction **Minor Amendment** **Amendment**

Figure 6 RESULTS310 – Stocking Standards screen

RESULTS311 - Stocking Standard Correction

Org Unit:

Client Number: 92M 025 0.0 37 Locn: Name:

Opening Opening ID: 1004171 Licensee Opening ID:

1 of 1

SU: Net Area To Be Reforested (ha): Expiry Date:

Max Soil Disturbance: % ☆ Comment:

Standards ID: Standards Name: Amended: N

Objective: Geographic:

BGC Zone	BGC Subzone	Variant	Phase	Site Series	Site Phase	Serial

Regen Early Late

Regen Obligations: ☐ ☐ ☐

No Regen Obligations: ☐ ☐ ☐

Additional Standards:

Single Layer 4 - Regen Layer 3 - Sapling Layer 2 - Pole Layer 1 - Mature

	Well Spaced Trees / ha	Residual Basal Area (m2/ha)	Post Spacing Density (st/ha)
Target:			
Min Horiz (m):			
Min Pref:			
Min:			
Max:			
Max Coniferous (st/ha):			
Height Relative to Comp(cm%):			

Menu ready for use

Preferred Species Min Height

Acceptable Species Min Height

Correction Rationale:

Figure 7 RESULTS311 – Stocking Standards Correction screen

RESULTS312 - Stocking Standard Amendment Request

Printer Version 

Back History

Org Unit: HFP - Forest Practices Branch
 Client Number: Locn: Name:
 Opening: 92M 025 0.0 37 Opening ID: 1004171 Licensee Opening ID:

1 of 1 

Stk: Net Area To Be Reforested (ha): Expiry Date:
 Max Soil Disturbance: %  Comment:
 Standards ID:  Standards Name: Amended: N
 Objective: Geographic:

BGC Zone	BGC Subzone	Variant	Phase	Site Series	Site Phase	Seral
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> 

Regen Obligations: ☐
 No Regen Obligations: ☐
 Additional Standards: 

Single Layer 4 - Regen Layer 3 - Sapling Layer 2 - Pole Layer 1 - Mature

	Well Spaced Trees / ha	Residual Basal Area (m2/ha)	Post Spacing Density (st/ha)
Target:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Menu ready for use			
Min Horiz (m):	<input type="text"/>		
Min Pref:	<input type="text"/>		
Min:	<input type="text"/>	<input type="text"/>	<input type="text"/>
Max:	<input type="text"/>		<input type="text"/>
Max Coniferous (st/ha):	<input type="text"/>		
Height Relative to Comp(cm%):	<input type="text"/> 		

Preferred Species Min Height

Acceptable Species Min Height

Amendment Rationale:



Back Delete Amendment Request

[Feedback](#) [Disclaimer](#) [Privacy](#) [Copyright](#)

Figure 8 RESULTS312 – Stocking Standards Amendment screen

5.6.1.1. Option 1: When the Reference Guide to FDP Stocking Standards is used:

Table 6 Minimum stocking standard data requirements:

Data Field	Comment
Opening No, Opening ID, or Timber Mark/Cut Block	Existing or new Opening ID (assigned by district staff)
SU	A unique identifier for the standards unit
Net Area to be Reforested	Area in hectares for intended treatment area
BEC fields	Biogeoclimatic zone, subzone and site series.
Standards ID	Unique number (in the <i>Reference Guide to FDP Stocking Standards</i>), specific to ecosystems within each region, to which a specific set of stocking standards has been assigned. When entered, all related standards are automatically generated for the defined SU in RESULTS
Spatial (Map)	SU line work must be provided in spatial submission

5.6.1.2. Option 2: When unique standards are created and approved by the district manager:

Table 7 Minimum stocking standard data requirements:

Data Field	Comment
Opening No, Opening ID, or Timber Mark/Cut Block	Based on existing/new Opening ID
SU	Unique identifier for the standards unit
Net Area to be Reforested	Area in hectares for proposed treatment area
Regen Due Date	The end of the period, following the commencement date, by which a stand being established on the net area to be reforested must conform to regeneration stocking standards. In RESULTS, this is an offset field called "Regen".
FG Due Date	The end of the period, following the commencement date, by which a stand being established on the net area to be reforested must conform to free growing stocking standards. In RESULTS this is an offset field called "Late".
Preferred Species/Minimum Heights	Preferred species and the minimum heights that must be attained by the preferred species
Acceptable Species/Minimum Heights	Acceptable species and the minimum heights that must be attained by the acceptable species
Target Stocking	Target number of trees per hectare of preferred and acceptable species
Minimum Preferred and Acceptable Stocking	Minimum number of trees per hectare of preferred and acceptable species
Minimum Preferred Stocking	Minimum number of trees per hectare of preferred species
Max conifers stems/ha	Maximum allowable stand density of total countable conifers, above which openings must be spaced down to a specified density of well-spaced preferred and/or acceptable stems, to achieve free growing status.
Post spacing Min/Max	Minimum and maximum density of well-spaced preferred and/or acceptable stems/ha to which the stand must be spaced to achieve free growing status.
Minimum inter-tree distance	Minimum allowable horizontal distance between trees in meters
% Height above brush	Required minimum height of the tree above competing vegetation in a 1 meter radius, expressed as a percentage
Comment	Required where applicable to expand on/justify stocking requirements where existing fields are not adequate. Select a standards comment type code, then type applicable comment related to stocking standards.
Spatial (Map)	SU line work must be provided in spatial submission

5.7. Disturbance and Silviculture Activities

Data requirements are described for four categories: disturbance, surveys, planned treatments, and completed treatments. In this guide, '*silviculture activities*' includes treatments and surveys.

Data for planned silviculture activities (treatments and surveys) under government funded programs should be entered in RESULTS by **December 1** to secure adequate project funding for treatments and surveys scheduled for the next fiscal year (beginning April 1).

Detailed guidance for planning silviculture activities (treatments and surveys) is at ftp://ftp.for.gov.bc.ca/HIS/external!/publish/OnLineClassroom/Results/Generating_Reports_Planning

5.7.1. Disturbance

All fields in Table 8 are required with disturbance submissions. Disturbance fields not listed in Table 8 are optional. Disturbance submissions must include forest cover submissions with spatial information. Transmit disturbance submissions through the ESF.

Table 8 Disturbance activity data requirements:

Field	Data
Opening No, Opening ID, or Timber Mark/Cut Block	Based on existing data/new Opening ID
Technique	HV - for projects that involve harvest activity (e.g., salvage) <blank> - for projects that do not involve harvest activity
Disturbance Code	as appropriate: B (burned, wildfire) F (flood) I (slide) P (pest – e.g., beetle) R (rehabilitation) S (salvage) W (wind damage)
Disturbance Start Date	YYYY-MM-DD.
Disturbance Completion Date	YYYY-MM-DD (must be after start date)
Disturbance Area	In hectares
Silvicultural System	Required for projects that involve harvest activity (e.g., salvage)
Silvicultural Variant	Required for projects that involve harvest activity (e.g., salvage)
Silvicultural Cut Phase	Required for projects that involve harvest activity (e.g., salvage)

5.7.2. Surveys (planned and completed)

Fields in Table 9 are required with planned or completed survey submissions. Survey fields not listed in Table 9 are optional. Completed survey submissions must include forest cover submissions with spatial information.

Follow these steps to add or update planned or completed surveys in RESULTS.

1. Tab-**Openings** – Select **Activities**
2. Enter opening information to retrieve opening record.
3. Enter the required data (Table 9) on the **RESULTS315 – Activities** screen.

Table 9 Survey activity data requirements:

Field	Data
Opening No, Opening ID, or Timber Mark/Cut Block	Based on existing/new Opening ID
Base	SU
Technique	RE (Reconnaissance) RG (Regen/Stocking) Or other appropriate code
Method	RECCE WALK Or other appropriate code
Planned Date (for planned activities)	YYYY-MM-DD (estimated planned date of survey)
Activity Completion Date (for completed activities)	YYYY-MM-DD (date survey was completed)
Funding Source	Enter applicable funding source code (Table 4).
Net Area Treated	In hectares
Project #	Required for completed survey, when funding source is FIA or FFT.

Correctly entered planned survey data should appear on the RESULTS317 screen as in Figure 9.

The screenshot displays the 'RESULTS317 - Maintain Activity Results' form. It includes a 'Back' button at the top left. The form contains several input fields and dropdown menus: 'ATU ID' (1002634), 'Licensee Activity ID' (empty), 'Activity Base' (SU - Surveys), 'Technique' (RG - Regen/Stocking), 'Method' (PLOT - Plots), 'Objectives' (ST), 'Completion Date' (empty), 'Planned Date' (2006-08-18), 'Funding Source' (GFS - Forest Stand Management), 'Projected Costs (\$)' (1,300), 'Treated Amount' (25 HA), 'Project #' (empty), 'Total Planted' (empty), 'Comments' (No), and 'Map' (No). There are 'Save' and 'Delete' buttons at the bottom right, and another 'Back' button at the bottom left.

Figure 9 RESULTS317 – Maintain Activity Results – Planned Survey

5.7.3. Planned treatments

Fields in Table 10 are required with planned treatment submissions. Activity fields not listed in Table 10 are optional.

Follow these steps to add or update planned activities.

1. **Tab-Openings – Select Activities**
2. Enter opening information to retrieve opening record
3. At bottom of screen select **Add Activity** to add a new planned activity (Figure 10).

RESULTS315 - Activities

Back

2 rows returned

RsIt	ATU ID	Base	Tech	Method	Objective	Start Date	Completion Date	Area Fund	Project #	Cmt	Map	
Y	1002633	DN	HV			2006-05-01	2006-05-17	25		N		Details
N	1002634	SU	RO	PLOT	ST		2006-06-18	25 OFS		N		Details

Back

Add Activity Add Disturbance

Figure 10 RESULTS315 – Activities Screen – Add Planned Activity

4. To add or modify previously submitted text information, find the desired activity on the **RESULTS315 – Activities** screen. The activity should be “planned” and should have “N” corresponding to the record in the **RsIt** column. Select **Details** for the applicable activity (Figure 11). Make the applicable modifications and select **Save**. (Figure 12).

RESULTS315 - Activities

Back

3 rows returned

RsIt	ATU ID	Base	Tech	Method	Objective	Start Date	Completion Date	Area Fund	Project #	Cmt	Map	
Y	1002633	DN	HV			2006-05-01	2006-05-17	25		N		Details
N	1002635	PL	PL	CTAIN	CE		2006-06-01	22 OFS		N		Details
N	1002634	SU	RO	PLOT	ST		2006-06-18	25 OFS		N		Details

Back

Add Activity Add Disturbance

Figure 11 RESULTS315 – Activities Screen – Modify Planned Activity

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

• Save successful.

Org Unit: DCH - Chilcotin Forest District Status: APP - Approved

Client: YKW 00 Name: YUN KA WHUTEN HOLDINGS LTD.

Opening: 93C 053 0.0 10 Opening ID: 31291 Licensee Opening ID:

License No: A47409 CP: 53 Cut Block: 401 Timber Mark: FM4053

Exhibit A Area (ha): 58.9 Disturbance Gross Area (ha): 58.9 IAR (ha): 54.1 Forest Cover Area (ha): 18.9

Go Clear SP Map Map View History FTA

RESULTS317 - Maintain Activity Results

Back

ATU ID: 1002360 Licensee Activity ID:

Activity Base: PL - Planting Technique: PL - Planting Method: CTAIN - Container

Objectives: CE Funding Source: FTL - Forests for Tomorrow Lic

Completion Date (YYYY-MM-DD): Planned Date (YYYY-MM-DD): 2005-01-01 Projected Costs (\$):

Treated Amount: 30 HA

Project #: Total Planted:

Comments: Yes Map: No

Save Delete

Figure 12 RESULTS317 – Maintain Activity Results – Edit Activity

- Enter the required data (Table 10). Previously submitted planned information should appear on the screen.

Table 10 Planned treatment data requirements

Field	Data
Opening No, Opening ID, or Timber Mark/Cut Block	Based on existing/new Opening ID
Activity Base	Select appropriate codes for the planned activity(s). At a minimum, include Activity Base.
Activity Technique	
Method	
Planned Date	YYYY-MM-DD
Funding Source	Select appropriate source code (Table 4)
Treated amount	Planned number of hectares proposed to be treated
Projected costs	Estimated cost (\$)

- Select **Save** and then use the **Back** button to verify that the ATU has been successively saved.

5.7.4. Completed treatments

Fields in Table 11 are required with completed treatment submissions. Fields not listed in Table 11 are optional. Completed Planting treatment submissions must include forest cover submissions with spatial information.

1. Tab-**Openings** – Select **Activities**
2. Enter opening information to retrieve opening record.
3. Enter the required data (Table 11) on the **RESULTS315 – Activities** screen.
4. Where the treatment is "planting" complete additional data requirements (Table 12).

Table 11 Completed activity data requirements:

Field	Data
Opening No, Opening ID, or Timber Mark/Cut Block	Based on existing/new Opening ID
Base	SU
Technique	RE (Reconnaissance) or RG (Regen/Stocking)
Method	RECCE WALK Or other appropriate code
Activity Completion Date	YYYY-MM-DD (date of survey)
Funding Source	e.g., FTM (Forest For Tomorrow – Ministry)
Net Area Treated	In hectares
Project #	

Table 12 Completed planting activity – additional data requirements:

Field	Data
Species	
Number Planted	
Number Beyond Transfer Limit	
Lot	Seed lot (must match the species)

5.8. Forest cover and map

Government-funded projects must include maps where changes to forest cover occur in relation to treatment or surveys. Three components comprise the forest cover data in RESULTS (Table 13). Forest cover text and spatial data is submitted through the ESF, but can be viewed and corrected (text data only) in RESULTS.

Table 13 Forest Cover Components

Component	Description	Notes
P	Polygon	Polygon component for all stands (includes spatial GML map)
I	Inventory – even-aged	Inventory component. (Required for even-aged and multi-layer stand).
S	Silviculture – even-aged	Silviculture component (required for even-aged stand). Cannot have without corresponding inventory component.

5.8.1. Polygon component

All polygons within the entire opening must be reported (listed with attributes and located on the map), including openings in which only a portion of the opening is treated or surveyed. Polygons within the opening that were not surveyed or treated must be identified and their locations and attributes must be included as part of the submission, along with the reference year (the year to which the attribute information applies; generally the last time the polygon was treated or surveyed). Polygon component fields in Table 14 are required with forest cover submissions. Fields not listed in Table 14 are optional.

Table 14 Forest cover data requirements. Even-aged and Multi-layer stands. Polygon Component:

Field	Comment
SU label	
Polygon label	
Gross Area	Area of the polygon.
Reference year	Year of survey
Reserve Type and Reserve Objective (where applicable)	Required if reserves exist within the polygon.
Site Index	Projected average height in metres of the leading species of the forest cover label at 50 years after the stand achieves breast height (1.3 m). In a multi-layer stand, site index refers to the leading species in the layer with the highest volume, or the layer next to be harvested (could be a pole, sapling or regeneration layer).
Site Index Source	Select appropriate code. Source or origin of site index. Use the most accurate method of collecting site index. See FS 660 card.
Tree Cover Pattern (where applicable)	Select appropriate code. Mandatory for openings in which trees are retained as part of the silvicultural system or disturbance characteristic (e.g., stands with overstoreys). Spatial arrangement of residual patches of overstorey (layer 1) within an SU that are too small to be mapped.
Re-entry Year (where applicable)	Year the next harvest entry is expected to occur in a partial-cut opening.
Stocking status	Select appropriate code. In a multi-storied stand, select the code which describes the stocking status of the next layer to be harvested, the layer with the highest site occupancy.
Stocking type	Select appropriate code. In a multi-storied stand, select the code which describes the stocking type of the next layer to be harvested, the layer with the highest site occupancy.
Spatial location of each forest cover polygon (GML)	Load through ESF.
Non-mapped area	Enter the area (ha) too small or dispersed to map that should be taken out of the productive forest area – NAR – but should be accounted for. Consists of four components: ID, area, stocking status and stocking type (see SISG).

Spatial information that has been correctly submitted can be accessed by selecting the **Forest Cover Map** hyperlink on the **RESULTS320 – Forest Cover Summary** screen (Figure 13), and viewed on the **RESULTS336 – Forest Cover Map** screen (Figure 14).

RESULTS320 - Forest Cover Summary													
Back		New Forest Cover Forest Cover History											
Last Action Date:		2006-04-27		Comments: No		Forest Cover Map		5 rows returned					
SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking	Reference Year	Species Code	Stems/ha				Details
				Gross	Net Stat				Total	Well Spaced	Well Spaced	Free Growing	
A	A		I	6.3	6.3 NSR	PL	2003						Details
B	B		I	1.7	.8 NSR	PL	2003						Details
	B	Z		.9	NP	UNN							Details
C	C		I	3.4	3.4 NSR	PL	2003						Details
	Z		I	.5	.5 NP	UNN	2003						Details

Figure 13 RESULTS320 – Forest Cover Summary screen

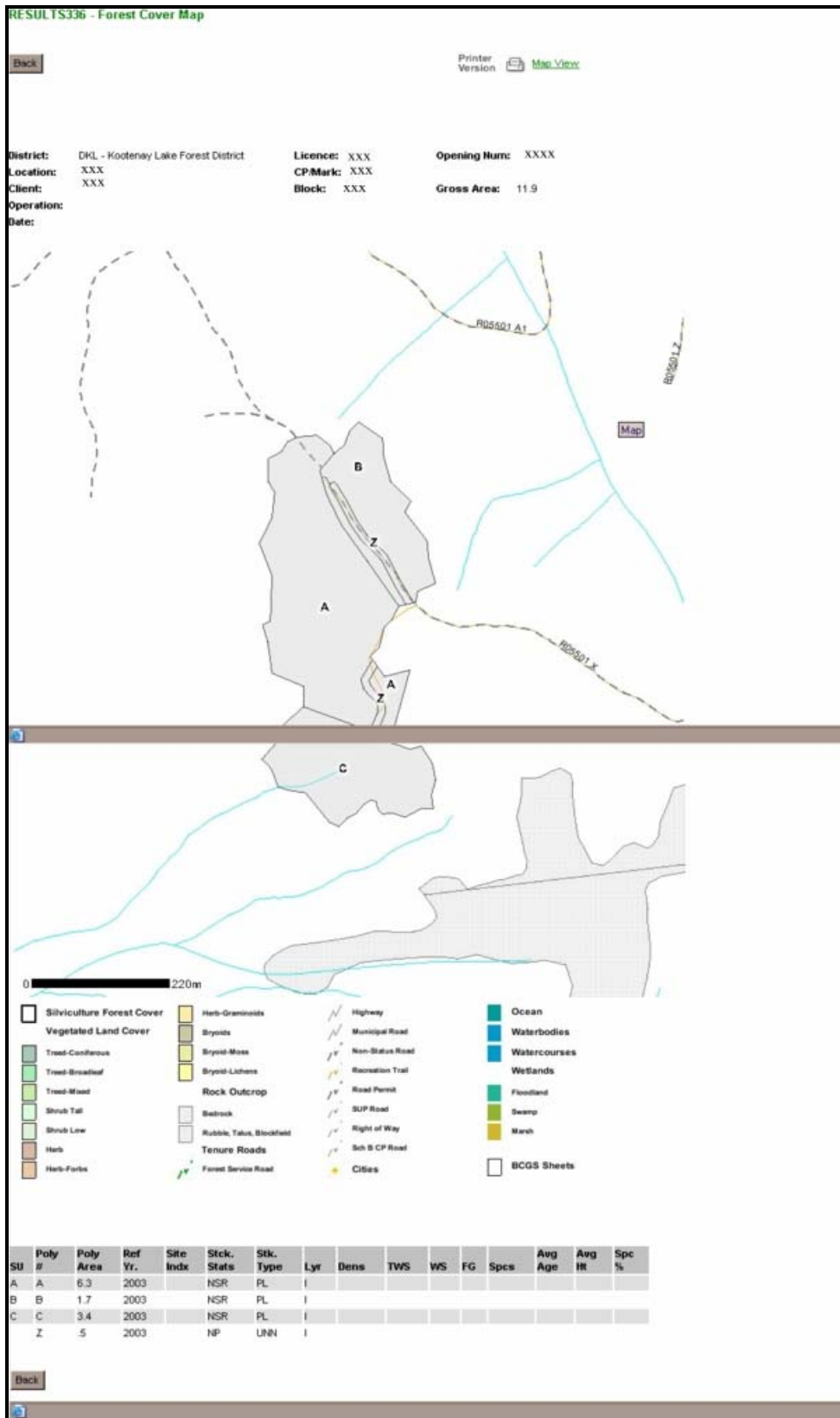


Figure 14 RESULTS336 – Forest Cover Map screen

5.8.2. Even-aged stands

Inventory component data is required for even-aged stands (Table 15). Silviculture component data (Table 16) is required for even-aged stands when differences exist between inventory and silviculture forest cover.

Table 15 Forest cover data requirements. Even-aged stands. Inventory Component:

Field	Comment
I/S Component	Component=I. Inventory component.
Crown Closure	Crown closure of all the commercial tree species: estimated to the nearest 10%. See FS 660 Card.
Basal Area	Basal area: Cumulative cross-sectional area of all tree stems > 12.5 cm diameter at breast height. Layer 1 only. Not required for even-aged stands, except if prescribed as an even-aged partial cut or intermediate cut. Required for commercial thinning or intermediate cuts where basal area is used to assess post-harvest stocking requirements. Required if listed as part of stocking requirements.
Total Stems/ha Species %	Must add to 100% for all species.
Average Species Age	Stocking surveys: average age of the leading species dominant and co-dominant trees Free growing surveys: average age of the leading species dominant and co-dominant trees and the average age of the second species dominant and co-dominant trees
Average Species Height	Stocking surveys: average height of the leading species dominant and co-dominant trees Free growing surveys: average height of the leading species dominant and co-dominant trees and the average height of the second species dominant and co-dominant trees
Damage Agent	Required where stand has been damaged.
% Incidence of Damage Agent	Required if damage agent present.
Area Affected by Damage Agent	Required if damage agent present.

Table 16 Forest cover data requirements. Even-aged stands. Silviculture Component:

Field	Comment
I/S Component	Component=S. Silviculture component.
Basal Area	Basal area: Cumulative cross-sectional area of crop tree stems > 12.5 cm diameter at breast height. Required if BA is listed as part of the stocking requirements.
Total Well Spaced Stems/ha	
Well Spaced Stems/ha	
Free Growing Stems/ha	
Species %	Must add to 100% for all species.
Average Species Age	Stocking surveys: average age of all preferred and acceptable well-spaced sample trees Free growing surveys: average age of all preferred and acceptable free-growing sample trees
Average Species Height	Stocking surveys: average height of all preferred and acceptable well-spaced sample trees Free growing surveys: average height of all preferred and acceptable free-growing sample trees
Damage Agent	Required where stand has been damaged.
% Incidence of Damage Agent	Required if damage agent present.
Area Affected by Damage Agent	Required if damage agent present.

5.8.3. Multi-layer stands

These specifications apply to forest stands that have more than one tree canopy layer. Four canopy layers are recognized (Table 17): mature, pole, sapling, regeneration.

Table 17 Forest Cover Layers

Layer	Description	Notes
1	Mature Layer – uneven-aged	Uneven-aged stand with trees ≥ 12.5 cm dbh – based on all commercial ⁵ trees.
2	Pole Layer – uneven-aged	Uneven-aged stand with trees 7.5 cm to 12.49 cm dbh – based on all commercial trees.
3	Sapling Layer – uneven-aged	Uneven-aged stand with trees 1.3 m in height to 7.49 cm dbh – based on all commercial trees.
4	Regeneration Layer – uneven-aged	Uneven-aged stand with trees < 1.3 m in height – based on all commercial trees.
V	Veteran	This term is being phased out. Previously referred to a living remnant of a former stand. Combined crown closure of less than 6%, and at least 40 years older and 10 m taller than the main stand. Include in the layer to which the tree sizes apply.

⁵ See FIP Relational Dictionary (p. 140) for description of tree species for forest inventory
http://www.for.gov.bc.ca/hts/vridata/standards/datadictionary/rpt_fip_rddv2.pdf

In the ministry's previous database systems (ISIS, MLSIS), stocking status and type were recorded for each canopy layer in multi-storied stands, and each layer was ranked according to order of importance for the next harvest entry. When RESULTS replaced ISIS and MLSIS, the requirement to rank the layers was removed, and stocking status and type are now described by polygon instead of by layer. Status and type refer to the layer next in line for harvest in a multi-layer stand – the predominant layer with the highest site occupancy. Site index refers to the leading species in the layer with the highest volume, or the layer which is next to be harvested (could be a pole, sapling or regeneration layer).

General information on multi-layer stands is in the *Silvicultural Systems Handbook for British Columbia* (<http://www.for.gov.bc.ca/hfp/publications/00085/silvsystemshdbk-print.pdf>) and at the *Stocking in Partial Cut Stands* web site (<http://www.for.gov.bc.ca/hfp/silviculture/MPBI/index.htm>).

Inventory component data is required for multi-layer stands (Table 18). Some silviculture component information may be reported with the inventory component information, and a separate silviculture forest cover component need not be reported. This is an interim measure to reduce reporting requirements for multi-layer stands, and may be appropriate for some homogenous stands like dry belt Douglas fir. While the following examples show how selected silviculture component information may be reported with the inventory component, clients may continue to report separate components where desired.

Table 18 Forest cover data requirements. Multi-layer stands. Inventory Component:

Field	Comment
I/S Component	Component=I. Inventory component.
Canopy Layer	1 (mature) 2 (pole) 3 (sapling) 4 (regeneration)
Crown Closure	Crown closure of all the commercial tree species: estimated to the nearest 10%. See FS 660 Card. Refers to the specified layer.
Basal Area	Basal area: Cumulative cross-sectional area of all tree stems > 12.5 cm diameter at breast height. Layer 1 only. Not required for even-aged stands, except if prescribed as an even-aged partial cut or intermediate cut. Required for commercial thinning or intermediate cuts where basal area is used to assess post-harvest stocking requirements. Required if listed as part of stocking requirements.
Total Stems/ha	Refers to all stems/ha - crop and non-crop.
Species %	Refers to species composition of total stems/ha – crop and non-crop. Must add to 100% for all species.
Average Species Age	Stocking surveys: average age of the leading species dominant and co-dominant trees (Inventory component). Free growing surveys: average age of the leading species dominant and co-dominant trees and the average age of the second species dominant and co-dominant trees (Inventory component).
Average Species Height	Stocking surveys: average height of the leading species dominant and co-dominant trees (Inventory component). Free growing surveys: average height of the leading species dominant and co-dominant trees and the average height of the second species dominant and co-dominant trees (Inventory component).
Damage Agent	Required where stand has been damaged.
% Incidence of Damage Agent	Required if damage agent present.
Area Affected by Damage Agent	Required if damage agent present.
Total Well Spaced Stems/ha	Required for multi-storied stems where a separate Silviculture Component is not reported. Complete these fields only in the I component (not in the S component). While a species composition for preferred and acceptable species is not reported, these values all refer to densities of preferred and acceptable crop trees only.
Well Spaced Stems/ha	
Free Growing Stems/ha	

5.8.3.1. Example: Single Tree Selection – Salvage (wind)

Table 19 is an example of a forest cover data set for a single tree selection salvage (wind) for four layers: 1 (mature), 2 (pole), 3 (sapling) and 4 (regeneration). In this example, basal area data is not included. If stocking requirements include basal area, then basal area must be included in the forest cover. After the multi-layer forest cover data is submitted to RESULTS, RESULTS forest cover screen views should appear as in Figure 15 and in Figure 16.

Table 19 Example Forest Cover Data – Single Tree Selection

Polygon Information		Layer information				
Polygon	A	Polygon	A	A	A	A
Area	1.4	Layer	1	2	3	4
Stocking Status	IMM (immature)	Species	Ba ₅₀ Hw ₄₀ Cw ₁₀	Ba ₉₀ Hw ₁₀	Hw ₆₀ Ba ₃₀ Cw ₁₀	Hw ₅₀ Ba ₅₀
Stocking Type	ART (artificial)	Total stems/ha	280	120	400	6200
Reference Year	2004	W/S stems/ha	280	100	380	220
Site Index	28	TWS stems/ha	280	100	400	220
Site Index Source	E (from BEC)	FG stems/ha	200	100	280	
Reserve Type	U (uniform)	% Crown Closure	15	3	10	40
Reserve Objective		Basal Area				
Tree Cover Pattern		Average Age (years)	350	30	13	5
Re-entry Year		Average Height (m)	26	5	2.6	0.5

RESULTS320 - Forest Cover Summary

[Back](#) [New Forest Cover](#) [Forest Cover History](#)

Last Action Date: 2006-05-29 Comments: [No](#) [Forest Cover Map](#) 4 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking	Reference Year	Species Code		Stems/ha				Details
				Gross	Net Stat	Type				Total	Total Well Spaced	Well Spaced	Free Growing	
	A		1	1.4	1.4	IMM	ART	2004	BA HV CV	280	280	280	200	Details
	A		2	1.4	1.4	IMM	ART	2004	BA HV	120	100	100	100	Details
	A		3	1.4	1.4	IMM	ART	2004	HV BA CV	400	400	380	280	Details
	A		4	1.4	1.4	IMM	ART	2004	HV BA CV	6200	220	220		Details

Figure 15 Single Tree Selection Example: RESULTS320 – Forest Cover Summary screen

RESULTS321 - Forest Cover Detail

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Edit

1 of 1

Last Action Date: 2006-05-29

Comments: No

Polygon: A

Site: 1.4

Forest Cover ID: 1.4

Reserve Objective: E - SI from Biogeoclimatic Ecosystem Classification

Gross Area(ha): 1.4

Net Area(ha): 1.4

Re-Entry Year: ART - Artificial

Reference Year: 2004

Reserve Type: U - Uniform

Stocking Type: ART - Artificial

Site Class:

Site Index: 28

Site Index Source: E - SI from Biogeoclimatic Ecosystem Classification

Tree Cover Pattern:

Re-Entry Year:

Stocking Status: IMM - Immature

Stocking Type: ART - Artificial

Non Mapped Area

Id

Area

Status

Type

Layer 1 Mature

Species	%	Average Age	Average Height
1 BA - AMABILIS FIR	50	350	26
2 HW - WESTERN HEMLOCK	40	195	23
3 CW - WESTERN RED CEDAR	10		

Crown Closure: 15

Basal Area

Stems/ha Total: 280

Total Well Spaced: 280

Well Spaced: 280

Free Growing: 200

Damage Agent	%	Area

Layer 2 Pole

Species	%	Average Age	Average Height
1 BA - AMABILIS FIR	90	30	5
2 HW - WESTERN HEMLOCK	10		

Crown Closure: 3

Basal Area

Stems/ha Total: 120

Total Well Spaced: 100

Well Spaced: 100

Free Growing: 100

Damage Agent	%	Area

Layer 3 Sapling

Species	%	Average Age	Average Height
1 HW - WESTERN HEMLOCK	60	13	2.6
2 BA - AMABILIS FIR	30	16	2
3 CW - WESTERN RED CEDAR	10		

Crown Closure: 10

Basal Area

Stems/ha Total: 400

Total Well Spaced: 400

Well Spaced: 380

Free Growing: 280

Damage Agent	%	Area

Layer 4 Regen

Species	%	Average Age	Average Height
1 HW - WESTERN HEMLOCK	64	5	.5
2 BA - AMABILIS FIR	27	5	.5
3 CW - WESTERN RED CEDAR	9		

Crown Closure: 40

Basal Area

Stems/ha Total: 6200

Total Well Spaced: 220

Well Spaced: 220

Free Growing:

Damage Agent	%	Area

Figure 16 Single Tree Selection Example: RESULTS321 – Forest Cover Detail screen

5.8.3.2. Example: Seed Tree – Uniform (establishment phase)

Table 20 is an example of a forest cover data set for an irregular shelterwood (establishment phase) for two layers: 1 (mature) and regeneration (4). In this example, basal area data is not included. If stocking requirements include basal area, then basal area must be included in the forest cover. After the multi-layer forest cover data is submitted to RESULTS, RESULTS forest cover screen views should appear as in Figure 17 and in Figure 18.

Table 20 Example Forest Cover Data – Seed Tree

Polygon Information		Layer information					
Polygon	1A	Polygon	1A	1A	1A	1A	1A
Area	28.6 ha	Layer	1	2	3	4	
Stocking Status	IMM (immature)	Species	Lw ₁₀₀	Pli ₁₀₀	Pli ₆₈ Lw ₂₅ Fdi ₆ At ₁	Fdi ₄₆ Lw ₂₆ Pli ₂₂ Sx ₅ At ₁	
Stocking Type	NAT (natural)	Total stems/ha	20	10	1800	1610	
Reference Year	2003	W/S stems/ha	20	10	710	130	
Site Index	21	TWS stems/ha	20	10	710	130	
Site Index Source	I (SI from growth intercept)	FG stems/ha	20	10	650	70	
Reserve Type		% Crown Closure	3	1	10	3	
Reserve Objective		Basal Area					
Tree Cover Pattern		Average Age (years)	100	12	12	5	
Re-entry Year		Average Height (m)	24	6	2.5	0.3	
		Damage Agent			DSG (Western Gall Rust)	DSC (Comandra Blister Rust)	
		% Damage			35	2	
		Area					
		Damage Agent			NGK (Frost)	DSG (Western Gall Rust)	
		% Damage			13	11	
		Area					

RESULTS320 - Forest Cover Summary

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New Forest Cover

Forest Cover History

Last Action Date: 2006-04-10

Comments: [No](#)

[Forest Cover Map](#)

8 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code			Stems/ha				Details	
				Gross	Net	Stat	Type					Total	Total Well Spaced	Well Spaced	Free Growing		
	1			4	4	NP	UNN	2005									Details
1	1A		1	28.6	28.6	MM	NAT	2003	LW			20	20	20	20		Details
1	1A		2	28.6	28.6	MM	NAT	2003	PLI			10	10	10	10		Details
1	1A		3	28.6	28.6	MM	NAT	2003	FDI	AT	PLI	1800	710	710	650		Details
1	1A		4	28.6	28.6	MM	NAT	2003	PLI	SX	AT	1610	130	130	70		Details
	2			6	6	NP	UNN	2005									Details
2	2B		I	10.4	10.4	MM	ART	2005	FDI	PLI		1140					Details
2	2B		S	10.4	10.4	MM	ART	2005	PLI	FDI	LW		560	560	360		Details

Figure 17 Seed Tree Example: RESULTS320 – Forest Cover Summary screen

RESULTS321 - Forest Cover Detail

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Last Action Date: 2006-04-10

Comments: No

Polygon: 1A

SU: 1

Forest Cover ID:

Net Area(ha): 28.6

Reference Year: 2003

Reserve Type:

Reserve Objective:

Site Class:

Site Index: 21

Site Index Source: I - SI from growth intercept

Free Cover Pattern:

Re-Entry Year:

Stocking Status: MM - Immature

Stocking Type: NAT - Natural

Ion Mapped Area

id

Area

Status

Type

Layer 1 Mature

Species	%	Average Age	Average Height
1 LW - WESTERN LARCH	100	100	24

Crown Closure: 3

Basal Area

Sterns/ha Total: 20

Total Well Spaced: 20

Well Spaced: 20

Free Growing: 20

Damage Agent

%

Area

Layer 2 Pole

Species	%	Average Age	Average Height
1 PLI - LODGEPOLE PINE (INTERIOR)	100	12	6

Crown Closure: 1

Basal Area

Sterns/ha Total: 10

Total Well Spaced: 10

Well Spaced: 10

Free Growing: 10

Damage Agent

%

Area

Layer 3 Sapling

Species	%	Average Age	Average Height
1 FDI - DOUGLAS-FIR (INTERIOR)	6		
2 AT - TREMBLING ASPEN	1		
3 PLI - LODGEPOLE PINE (INTERIOR)	68	12	2.5
4 LW - WESTERN LARCH	25	12	3

Crown Closure: 10

Basal Area

Sterns/ha Total: 1800

Total Well Spaced: 710

Well Spaced: 710

Free Growing: 650

Damage Agent

%

Area

DGO - Western Oak Rust (Endocronartium harknessii)

35

NGK - Shoot/Bud Frost Kill

13

Layer 4 Regen

Species	%	Average Age	Average Height
1 PLI - LODGEPOLE PINE (INTERIOR)	22		
2 SK - SPRUCE HYBRID	5		
3 AT - TREMBLING ASPEN	1		
4 FDI - DOUGLAS-FIR (INTERIOR)	46	5	.3
5 LW - WESTERN LARCH	26	5	.4

Crown Closure: 3

Basal Area

Sterns/ha Total: 1610

Total Well Spaced: 130

Well Spaced: 130

Free Growing: 70

Damage Agent

%

Area

DSC - Comandra Blister Rust (Cronartium comandrae)

2

DGO - Western Oak Rust (Endocronartium harknessii)

11

Figure 18 Seed Tree Example: RESULTS321 – Forest Cover Detail screen

5.8.3.3. Example: Irregular Shelterwood

Table 21 is an example of a forest cover data set for an irregular shelterwood (establishment phase) for two layers: 1 (mature) and regeneration (4). In this example, basal area data is not included. If stocking requirements include basal area, then basal area must be included in the forest cover. After the multi-layer forest cover data is submitted to RESULTS, RESULTS forest cover screen views should appear as in Figure 19 and in Figure 20.

Table 21 Forest Cover Data - Irregular Shelterwood:

Polygon Information			Layer information		
Polygon	A	Z	Polygon	A	A
Area	3.7	0.3	Layer	1	4
Stocking Status	IMM (immature)	NP (non-productive) (rock)	Species	Fdi ₅₀ Pli ₅₀	Lw ₅₆ Pli ₄₄
Stocking Type	NAT (natural)	UNN (unnatural)	Total stems/ha	200	720
Reference Year	2002		W/S stems/ha	200	720
Site Index	18		TWS stems/ha		
Site Index Source	E (from BEC)		FG stems/ha	200	
Reserve Type	M (mixed)		% Crown Closure	38	3
Reserve Objective			Basal Area		
Tree Cover Pattern			Average Age (years)	81	1
Re-entry Year			Average Height (m)	24.2	0.3

RESULTS320 - Forest Cover Summary

[Back](#) [New Forest Cover](#) [Forest Cover History](#)

Last Action Date: 2003-01-14 Comments: [No](#) [Forest Cover Map](#) 3 rows returned

SU	Polygon ID	Non-Mapped Area	Layer	Polygon Area		Stocking		Reference Year	Species Code		Stems/ha				Details
				Gross	Net	Stat	Type				Total	Total Well Spaced	Well Spaced	Free Growing	
	A		1	3.7	3.7	IMM	NAT	2002	FDI	PLI	200		200	200	Details
	A		4	3.7	3.7	IMM	NAT	2002	LW	PLI	720		720		Details
	Z		I	.3	.3	NP	UNN	2003							Details

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Figure 19 Irregular Shelterwood Example: RESULTS320 – Forest Cover Summary screen

RESULTS321 - Forest Cover Detail

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1 of 2

Last Action Date:2003-01-14

Comments:No

SU:

Forest Cover ID:

Polygon :A

Gross Area(ha):3.7

Net Area(ha):3.7

Reference Year:2002

Reserve Type:M - Mixed

Reserve Objective:

Site Class:

Site Index:18

Site Index Source:E - SI from Biogeoclimatic Ecosystem Classification

Tree Cover Pattern:

Re-Entry Year:

Stocking Status:IMM - Immature

Stocking Type:NAT - Natural

Non Mapped Area

Id	Area	Status	Type
----	------	--------	------

Layer 1 Mature

	Species	%	Average Age	Average Height
1	FDI - DOUGLAS-FIR (INTERIOR)	50	81	24.2
2	PLJ - LODGEPOLE PINE (INTERIOR)	50		

Crown Closure:38

Basal Area

Stems/ha Total200

Total Well Spaced

Well Spaced200

Free Growing200

Damage Agent

%

Area

Layer 4 Regen

	Species	%	Average Age	Average Height
1	LW - WESTERN LARCH	56	1	.3
2	PLJ - LODGEPOLE PINE (INTERIOR)	44		

Crown Closure:3

Basal Area

Stems/ha Total720

Total Well Spaced

Well Spaced720

Free Growing

Damage Agent

%

Area

Figure 20 Irregular Shelterwood Example: RESULTS321 – Forest Cover Detail screen

5.9. Declarations

Declarations for openings subject to government funded treatments are the same as for licence holders. Follow procedures for submitting declarations according to the *Draft Silviculture Information Submission Guidebook*.

For special cases; for example, areas where lower than expected stocking standards have been applied and the area has been declared free growing, add comments to describe the circumstances and situation justifying the application of lower standards.

Fields in Table 22 are required with declaration submissions. Declaration fields not listed in Table 22 are optional. Declaration submissions must include forest cover and spatial submissions.

1. Submit forest cover attributes and spatial information for the opening.
2. Tab-**Openings** – Select **Milestones**
3. Enter opening information to retrieve opening record.
4. Select the row that contains the required declaration parameters (Table 22) on the **RESULTS325 - Milestones** screen (e.g., SU, declaration type).
5. Select **Update** in the desired row. (Figure 21)
6. Confirm authorization (only if authorized to make declarations on behalf of client).
7. Select a Declaration Date in the **Declared Date** field. (Figure 22)
8. Add comments.
 - a. Open the comment link to the right of the **Declared Date** field. (Figure 22)
 - b. Type a comment in the **New Comment** field. Select **Save**. (Figure 23)
9. Select **Save** beside the **Declared Date** field. (Figure 23)

Table 22 Declaration data requirements:

Field	Data
SU	Standards Unit ID to which the declaration relates.
Declaration type	Enter appropriate code: RG=regeneration FG=free growing
Declared date	YYYY-MM-DD (may not be the same as submission date)
Comment	Include the name and professional identification number of the Registered Professional Forester who was responsible for making the declaration and who supervised the work that supports the declaration. Add any additional comments as necessary to explain the declaration.

RESULTS325 - Milestones

[Back](#)

Compliance Date Indicator: HARVEST

3 rows returned

SU	SU Area	Declaration Type	Due Early	Due Late	Declared			Submission Date	Update	Undeclare
					Date (YYYY-MM-DD)	User ID	Cmt			
1	26.8	Post Harvest	0	0			No		Update	Undeclare
1	26.8	Regeneration	0	4			No		Update	Undeclare
1	26.8	Free Growing	12	20			No		Update	Undeclare

[Save](#) [Cancel](#)

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Figure 21 RESULTS325 – Milestones screen

Select desired milestone.

RESULTS325 - Milestones

[Back](#)

Compliance Date Indicator: HARVEST

3 rows returned

SU	SU Area	Declaration Type	Due Early	Due Late	Declared			Submission Date	Update	Undeclare
					Date (YYYY-MM-DD)	User ID	Cmt			
1	26.8	Regeneration	0	4			No		Update	Undeclare
1	26.8	Post Harvest	0	0			No		Update	Undeclare
1	26.8	Regeneration	0	4			No		Update	Undeclare
1	26.8	Free Growing	12	20			No		Update	Undeclare

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Figure 22 RESULTS325 – Milestones screen

Enter date and launch comment field.

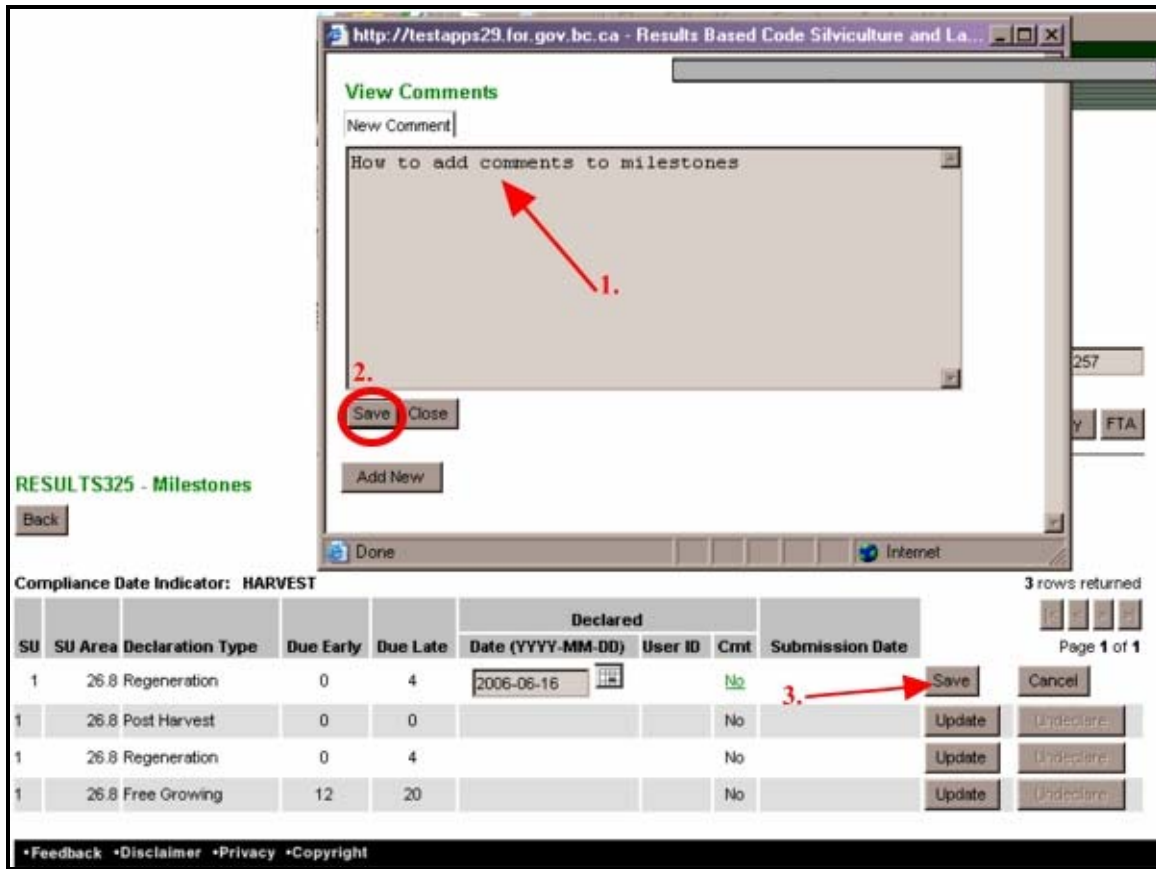


Figure 23 RESULT325 – Milestones screen

Save comment and declaration.

6. Broadcast Treatments of Large Areas

In some projects, large broadcast treatments are applied over large areas (e.g., fertilization application for timber value improvement, aerial spraying for forest health management regimes). Existing openings, forest cover, or stocking standards may be absent in some of these cases. While each case must be addressed individually, an example is provided for how RESULTS can be used to report the information.

Example: Aerial Fertilization

The FFT program funds extensive fertilization of 40 to 60 year old stands with good growth potential. The goal is to supplement anticipated timber supply shortfalls attributed to the mountain pine beetle (MPB) epidemics in some timber suppl areas. While growth effects of these treatments will not be realized until 10 to 20 years, these treatments must be mapped and tracked to monitor and protect the investments until the maximum effect can be realized.

The new opening submission must have sufficient information to describe the fertilization event, and to determine impacts on higher level plans, basic silviculture, forest cover, and other local issues. Given that fertilization encompasses extensive areas without immediately affecting forest cover, the creation of a special opening designation is suggested. This designation would be associated with specific data distinctive from that of openings with obligations to establish free growing stands.

The following are suggested minimum information requirements for RESULTS. Additional information elements may be added (optional) by districts for custom or discretionary planning needs.

Submission to RESULTS

A spatial submission, in GML format, is required for fertilization submissions. If a shape file is created by a GPS device, the shape file must be converted to GML for upload to RESULTS. RESULTS data service providers are familiar with this conversion process. Data service providers may require notification of how to identify and process submissions for these types of openings with no associated harvest activities. Data as in Table 23 would be submitted to RESULTS.

Table 23 Data requirements for broadcast fertilization of extensive areas

Field	Details
Opening Definition	
Mapsheet & Opening Number	Opening number must be obtained from district staff. (For districts that normally use the "auto-generate" feature in RESULTS for tenured/harvested openings, the feature does not function for this type of opening).
Opening ID	Automatically generated by RESULTS upon submission of the Mapsheet & Opening Number combination.
Opening Category	SPEX (SP Exempt)
SP Exempt	Set to "Y"
Opening Gross Area	Minimum area 0.1 ha.
Approval Date	Fertilization application date (YYYY-MM-DD)
Opening Status	Set to "FG"
TSB (Timber Supply Block)	Select as appropriate to assist with reporting.
Map	
Activity	
Base	FE (Fertilization)
Method	CA (chemical Air)
Technique	FIXED (Fixed Wing) or HELI (Helicopter)
Funding Source	FTL (Forests for Tomorrow Licensee administered) FTM (Forests for Tomorrow Ministry administered) Other eligible funding source
Completion Date	YYYY-MM-DD
Area Treated	Total fertilization coverage area in hectares
Project Number	Supply FFT (or other) project number.
Activity Map (GML)	Supply GML exterior outline of coverage. Internal swath linework not required.
Comments or Attachments	Can attach details regarding type/concentration of fertilizer applied, GPS, etc... Maximum size limit of attachment file is 4 Megabites.
Standards Unit	
n/a	Not required. SPEXempt removes requirement for standards unit information.
Forest Cover	
n/a	Not required. Forest cover information describing current stand conditions exists in RESULTS and VRI.

7. Amending information

RESULTS allows users to correct and/or update information to be consistent with silviculture prescriptions and their amendments, and amended site plans. Follow procedures outlined in the *Draft Silviculture Information Submission Guide*. Some of the updating features can be used to enter missing data so that the information in RESULTS accurately reflects information in silviculture prescriptions, site plans, and treatment and survey history.

For Silviculture Prescriptions, update options are: corrections, amendments (requires District Manager approval), and minor amendments.

For Site Plans, update options are: approved variations and site plan amendments.

All changes to information require a thorough understanding of legislated requirements to ensure that changes are consistent with legislation, and training in how to use RESULTS to make changes.

8. Comment Fields

RESULTS has comment fields that can be used to justify unusual management regimes and provide additional information that cannot be captured by the other fields in RESULTS. Comment fields can be used to describe species or activities not otherwise described by RESULTS code lists.

9. FRPA Section 108 Application: Request for funding assistance or relief of silviculture obligations

Applications must include submission of the disturbance event, indicating the date and type of event, with forest cover information and map of the post-event condition.

Attachments may be appended to the application using the online Attachments feature (Section 5.3).

9.1.1. Initiating a Request

- 1) Tab – **Data Submission** – select **FRPA 108 Application** (Figure 24). This accesses the **RESULTS S108-FRPA Application** screen (Figure 25) with blank header fields.
- 2) Enter the opening identifiers to which the s.108 application applies. Enter any combinations of Opening ID, or Mapsheet and Opening Number, or Licence/CP/TM/Blk/TM. Select **Go**. Once the Opening is identified, its associated information is automatically referenced into the upper portion of the screen.
- 3) Select **Add New** to initiate the application. (Figure 26)



Figure 24 FRPA 108 Application tab in RESULTS

The screenshot shows the 'RESULTS 108 - FRPA Application' screen. The top navigation bar is identical to Figure 24. The main content area contains a form with various input fields and buttons. The form includes fields for 'Org Unit', 'Client', 'Opening', 'Licence No.', 'Exhibit A Area (ha)', 'Disturbance Gross Area (ha)', 'Status', 'Name', 'Opening Id' (with value 15416), 'CP', 'Licensee', 'Opening Id', 'Cut Block', 'Timber Mark', 'HAR (ha)', and 'Forest Cover Area (ha)'. There are also buttons for 'Go', 'Clear', 'SP Map', 'Map View', 'History', and 'FTA'. The bottom of the screen features a footer with links for 'Feedback', 'Disclaimer', 'Privacy', and 'Copyright'.

Figure 25 RESULTS 108 – FRPA Application screen

The screenshot shows the 'RESULTS 108 - FRPA Application' screen with the 'Add New' button highlighted. The form includes fields for 'Status of Application', 'Application Number', and 'Relief from Obligation'. The 'Relief from Obligation' field is currently empty. The bottom of the screen features a footer with links for 'Feedback', 'Disclaimer', 'Privacy', and 'Copyright'.

Figure 26 RESULTS 108 – FRPA Application screen – add new opening

Two options are available:

1. Select check box to request ***Relief from Obligation***.
 - o Complete the disturbance & forest cover sections.
 - o Submit a major amendment (Figure 27). The submitted major amendment will automatically be attached to the s.108 application.

Applicable Standards Unit:	
Amendment No: 2	
SU	Amendment Proposed
A	☒
B	☐
C	☐

Figure 27 Amendment

2. To request ***Funding assistance***, complete disturbance, forest cover and planned activity regime sections.

9.1.2. Disturbance Section (Mandatory)

RESULTS references any disturbance history associated with the opening requested (Figure 28). (*To qualify for s.108, the disturbance event must occur after December 17, 2002*). Once the disturbance event is selected, the information is auto-filled. If no disturbance record after December 17, 2002 exists, load an ESF disturbance submission to RESULTS before continuing with the on-line application.

Disturbance Activity (ATU):										
ATU ID	Base	Tech	Disturbance	System	Variant	Phase	Start Date	Completion Date	Area	Activity Map
1003682	DN		Burnt Wildfire				2004-08-30	2004-09-18	131	N

Figure 28 Disturbance Activity

9.1.3. Forest Cover Observation Dates Section (Mandatory)

This part of the screen (Figure 29) describes the forest condition prior to the event and the most recent forest cover after the damaging event demonstrating the current forest condition leading to the FRPA s.108 request. Hyperlinks are available to view the detailed forest cover associated with each event.

Figure 29 Forest Cover Observation Dates

RESULTS automatically loads the most recent forest cover submission. To complete the application, a new ESF RESULTS forest cover submission that describes the post-catastrophic stand condition is required.

9.1.4. Planned Activity Regime (Mandatory only for funding request)

For funding requests, identify the proposed treatments for the opening (Figure 30). To complete this portion, the request must be **Saved** first.

Submit the following information (minimum requirements):

- Base, Technique, Method
- Funding Source - **FRP** – FRPA – Application for Relief
- Area
- Cost – *(Proposed funding request will be based on this.)*

More than one activity can be listed per opening. The request may be comprised of the activities that would be required to establish the stand condition that existed immediately preceding to the catastrophic event.

Figure 30 Planned Activity Regime

9.1.5. Eligibility and Authorization (Mandatory)

Check the applicable eligibility box(s) and confirm authorization to complete the s.108 request (Figure 31).

Once completed, select **Submit** to complete the application request.

To save the s.108 application for the opening without submitting, use **Save** to interrupt the session and come back to the application later. You may also **Delete** the application request.

The screenshot shows a web form titled "Eligibility" with the following content:

- ☒ Obligation cannot be met without significant extra expense due to the damaging event.
- ☒ Obligation holder did not cause or contribute to the cause of the damage.
- ☒ Obligation holder contributed to the cause of the damage but only as a result of an officially induced error.
- ☒ Obligation holder exercised due diligence in relation to the cause of the damage.

☒ I am authorized by the holder of these silviculture obligations to make this submission and I confirm that I have the appropriate professional designation to make this submission.

Submitted By:	Submitted Date:
Approved By:	Approved Date:

Save Delete Submit

Figure 31 Eligibility and Authorization

9.1.6. Approval (District Manager)

- 1) Tab – **Inbox**. Select **Inbox Search**.
- 2) Access **Status**, change to **Relief**, and **Search**.
- 3) Select **Details** to review the application request. (Figure 32)
- 4) Review the application request. (*When reviewing an application for Relief of an obligation, access Details to view information associated with the amendment request.*)
- 5) Use the **Approve** or **Reject** buttons (on the bottom of the screen) to process the application. (Figure 33). If the application is rejected, a reason must be provided.

Application Home

RESULTS

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

RESULTS201 - Inbox Search

Org Unit: DCR - Campbell River Forest Distric

Opening: Opening Id: Licensee Opening Id:

Client: Licence No: CP: Timber Mark: Cut Block:

Status: Relief XML File Name:

Standards ID:

Sort By: Type Submitted Date Search Clear

Back

1 rows returned

Type	Opening ID	Licence	Cutting Permit	Timber Mark	Cut Block	Client & Loch	Status	Submit Date	Standards ID
Relief	1000601						APP	2005-04-12	11 (+) Details

Back

Feedback Disclaimer Privacy Copyright

Figure 32 RESULTS201 – Inbox Search screen

I am authorized by the holder of these silviculture obligations to make this submission and I confirm that I have the appropriate professional designation to make this submission.

Application Rejection Reason

Submitted By: FSIASVRES_MTI Submitted Date: 2005-04-12

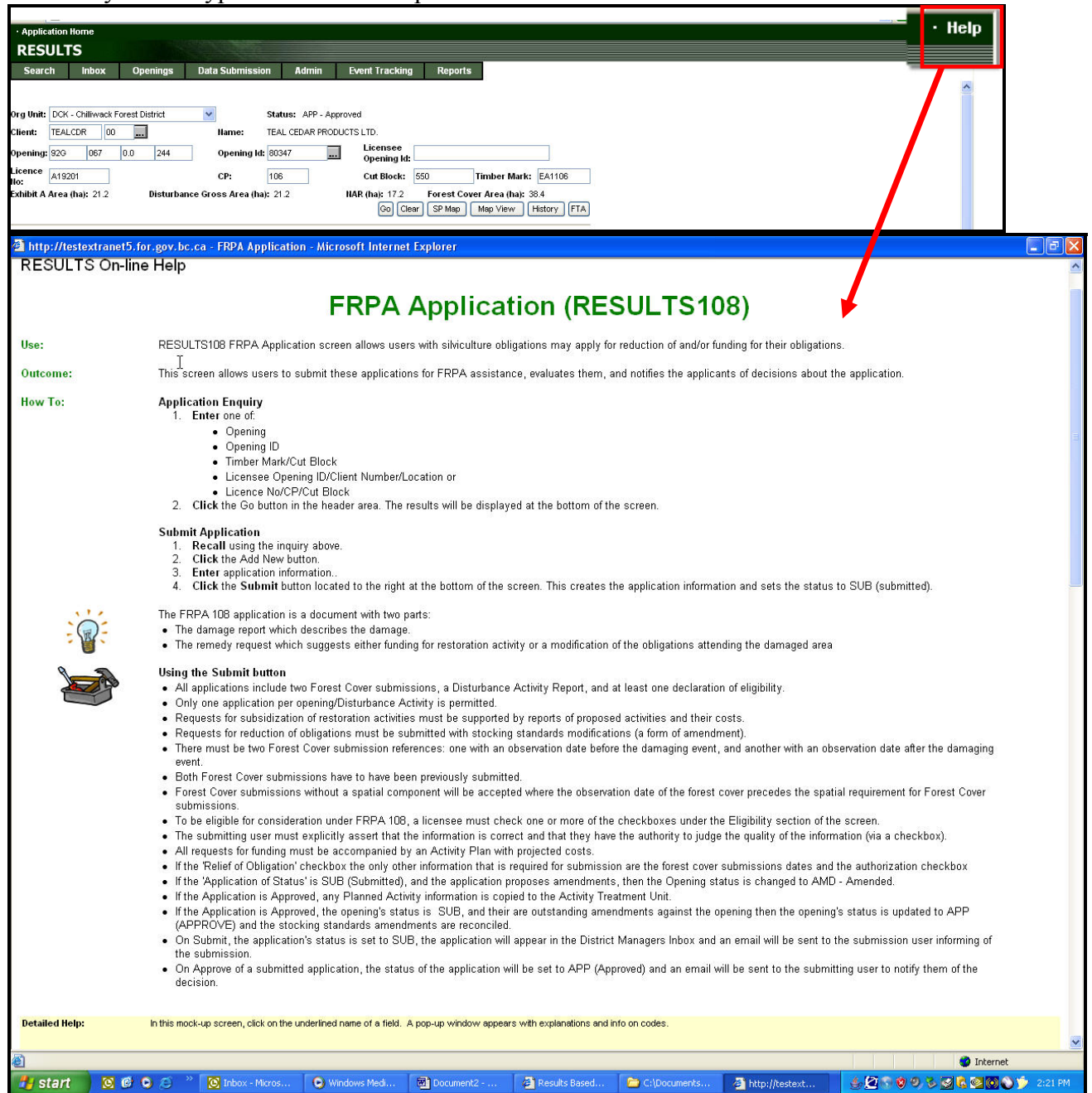
Approved By: Approved Date:

Approve Reject

Figure 33 Approve or Reject s. 108 application

10. Help Screen

Help Screens are accessed on the header of each web page.
Select any of the hyperlinks on the help screen for more information.



The screenshot shows a web application interface with a top navigation bar containing links like 'Application Home', 'RESULTS', 'Search', 'Inbox', 'Openings', 'Data Submission', 'Admin', 'Event Tracking', and 'Reports'. A 'Help' link is highlighted in a red box in the top right corner. A red arrow points from this box to the 'FRPA Application (RESULTS108)' title on the help screen.

FRPA Application (RESULTS108)

Use: RESULTS108 FRPA Application screen allows users with silviculture obligations may apply for reduction of and/or funding for their obligations.

Outcome: This screen allows users to submit these applications for FRPA assistance, evaluates them, and notifies the applicants of decisions about the application.

How To:

Application Enquiry

- Enter one of:
 - Opening
 - Opening ID
 - Timber Mark/Cut Block
 - Licensee Opening ID/Client Number/Location or
 - License No/CP/Cut Block
- Click the Go button in the header area. The results will be displayed at the bottom of the screen.

Submit Application

- Recall using the inquiry above.
- Click the Add New button.
- Enter application information.
- Click the Submit button located to the right at the bottom of the screen. This creates the application information and sets the status to SUB (submitted).

The FRPA 108 application is a document with two parts:

- The damage report which describes the damage.
- The remedy request which suggests either funding for restoration activity or a modification of the obligations attending the damaged area

Using the Submit button

- All applications include two Forest Cover submissions, a Disturbance Activity Report, and at least one declaration of eligibility.
- Only one application per opening/Disturbance Activity is permitted.
- Requests for subsidization of restoration activities must be supported by reports of proposed activities and their costs.
- Requests for reduction of obligations must be submitted with stocking standards modifications (a form of amendment).
- There must be two Forest Cover submission references: one with an observation date before the damaging event, and another with an observation date after the damaging event.
- Both Forest Cover submissions have to have been previously submitted.
- Forest Cover submissions without a spatial component will be accepted where the observation date of the forest cover precedes the spatial requirement for Forest Cover submissions.
- To be eligible for consideration under FRPA 108, a licensee must check one or more of the checkboxes under the Eligibility section of the screen.
- The submitting user must explicitly assert that the information is correct and that they have the authority to judge the quality of the information (via a checkbox).
- All requests for funding must be accompanied by an Activity Plan with projected costs.
- If the 'Relief of Obligation' checkbox the only other information that is required for submission are the forest cover submissions dates and the authorization checkbox
- If the 'Application of Status' is SUB (Submitted), and the application proposes amendments, then the Opening status is changed to AMD - Amended.
- If the Application is Approved, any Planned Activity information is copied to the Activity Treatment Unit.
- If the Application is Approved, the opening's status is SUB, and their are outstanding amendments against the opening then the opening's status is updated to APP (APPROVE) and the stocking standards amendments are reconciled.
- On Submit, the application's status is set to SUB, the application will appear in the District Managers Inbox and an email will be sent to the submission user informing of the submission.
- On Approve of a submitted application, the status of the application will be set to APP (Approved) and an email will be sent to the submitting user to notify them of the decision.

Detailed Help: In this mock-up screen, click on the underlined name of a field. A pop-up window appears with explanations and info on codes.

Government Funded Silviculture Treatments - Edition 1.0

Detailed Help: In this mock-up screen, click on the underlined name of a field. A pop-up window appears with explanations and info on codes.

Org Unit: Status: Display

Client: Name: Display

Opening: Opening ID: Licensee Opening ID:

Licence No.: Cutting Permit: Timber Mark: Cut Block:

Exhibit A Area (ha): Display Disturbance Gross Area (ha): Display IAR (ha): Display Forest Cover Area (ha): Display

Go Clear SP Map MapView History FTA

RESULTS108 - FRPA Application

Back Add New

Status Of Application: Display Application Number: Display

Relief from Obligation: ☒

Disturbance Activity:

ATU ID	Base	Tech	System	Variant	Phase	Start Date	Completion Date	Area	Activity Map
1000037	DN	HV	COPPI					11	N

Forest Cover Observation Dates:

Before Event Date: Forest Cover Details: After Event Date: Forest Cover Details:

Planned Activity Regime

Activity Base: Technique: Method:

Funding Source: Area (ha): Cost (\$):

Save Activity Cancel

Activity Base	Technique	Method	Funding Source	Area (ha)	Cost (\$)	Licensee ID	
EP - Experimental Activities	CC - Cone Collection	BLOCK - Clearcut Block	QFS - Forest Stand Management Fund	133	654	aa-bb	Update Delete
CC - Cone Collection	CA - Chemical Air	BDGRP - Bridge Replacement	FIV - Forest Investment Vote	12	16		Update Delete

Applicable Standard Units

Amendment No.: Display

SU	Amendment Proposed
1	Y
2	Y

Eligibility

☒ Obligation cannot be met without significant extra expense due to the damaging event.

☒ Obligation holder did not cause or contribute to the cause of the damage.

☒ Obligation holder contributed to the cause of the damage but only as a result of an officially induced error.

☒ Obligation holder exercised due diligence in relation to the cause of the damage.

☒ I am authorized by the holder of these silviculture obligations to make this submission and I confirm that I have the appropriate professional designation to make this submission.

Submitted By: Display Submitted Date: Display

Approved By: Display Approved Date: Display

Save Delete Submit

To Print: 1. Right click on the page or pop-up. 2. Click on Print.

Internet

start Inbox - Micros... Windows Med... Document2 - ... Results Based... C:\Documents... http://retext... 2:26 PM

Figure 34 Help Screens

11. Other tools and initiatives

11.1. MapView

Some layers of spatial information (e.g., base maps, tenure cutblock information, roads, and RESULTS/Silviculture openings) may be viewed with the ministry's developing MapView tool .

MapView Link (access with a BCeID or IDIR account):

<http://srmapps.gov.bc.ca/apps/mapview/>

To access the user manual:

1. Launch MapView application <http://srmapps.gov.bc.ca/apps/mapview/>
2. Tab - **Tutorial** -- Select “Read the tutorial” (Figure 35)



Figure 35 MapView Home Page

11.1.1.1. Example of how MapView might be used with other ministry information:

The ministry Protection Branch posted all Fires over 5ha for the 2003 and 2004 period at: <http://www.for.gov.bc.ca/protect/reports/FireLocations.htm>. Table 24 provides an excerpt of fire data. The approximate coordinates may be used to locate and plan reconnaissance work, and can be cross-referenced against other Mapview Layers to provide preliminary information on existing tenure/cutblock/openings where available.

Table 24 Excerpted example of 2003/4 ministry fire data

Kamloops Fire Centre					
Fire #	Latitude	Longitude	Discovered	Size (ha)	Geographic
K20001	50 41.197	121 17.628	01 Apr 2004	9	6 miles S of Ashcroft
K20005	50 56.624	120 58.727	02 Apr 2004	33	Deadman, 20km Creek
K70008	50 11.570	121 34.705	03 Apr 2004	19	Skuppah IR 2A
K70099	50 44.350	121 56.300	18 Jun 2004	1,514	Town Creek
K70112	50 40.140	122 05.950	NULL	954	West of Seton Lake
K20165	50 47.618	121 29.226	24 Jun 2004	7	McLean Lake
K70172	50 16.680	121 31.880	24 Jun 2004	1,493	Botanie Valley

Example (Figure 36) using the Botanie Valley coordinates (from Table 24):

1. Launch MapView application <http://srmapps.gov.bc.ca/apps/mapview/>
2. Tab **Find Location** – select **Latitude-Longitude Coordinate**
3. Type the coordinates: Longitude -121 31 880, Latitude 50 16 680 (Longitude West values must be negative).
4. Select zoom map width: **10 km** -- Click **OK**
5. Select Scale **1:100,000** (bottom left screen) – Click **Go**.

To locate openings with existing silviculture obligations (Figure 37):

1. Tab **Themes** – Select **Silviculture**.
2. Tab **Layers** – Category: RESULTS -- Check
 - ☒ **i Opening**
 - ☒ **Activity Treatment Unit**
 - ☒ **Stocking Standard Unit**
 - ☒ **Silviculture Forest Cover**
3. Select Scale **1:100,000** (bottom left screen) – Click **Go**.

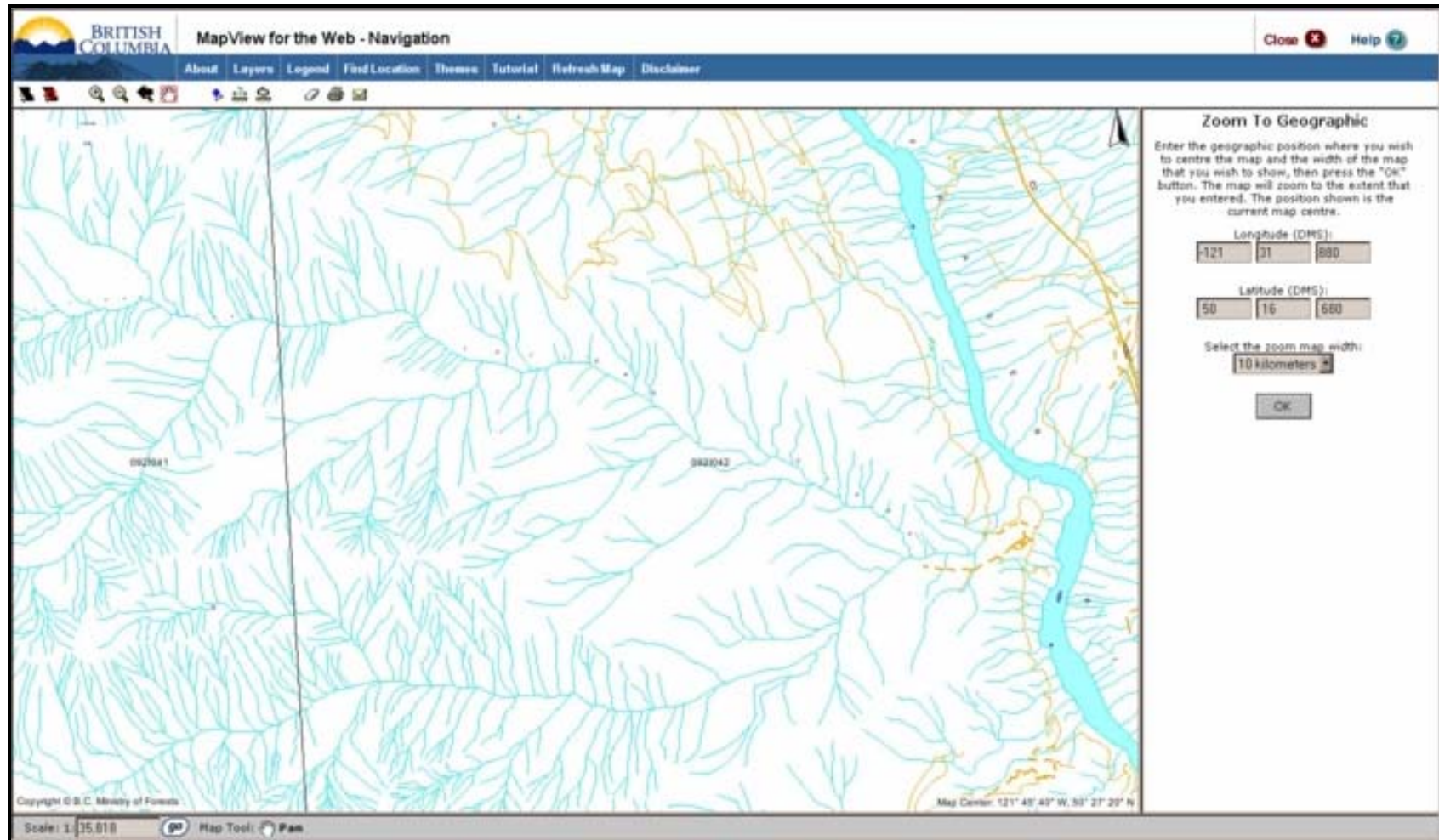


Figure 36 Example map produced on April 20, 2006 for Botanie Valley area showing land base only.

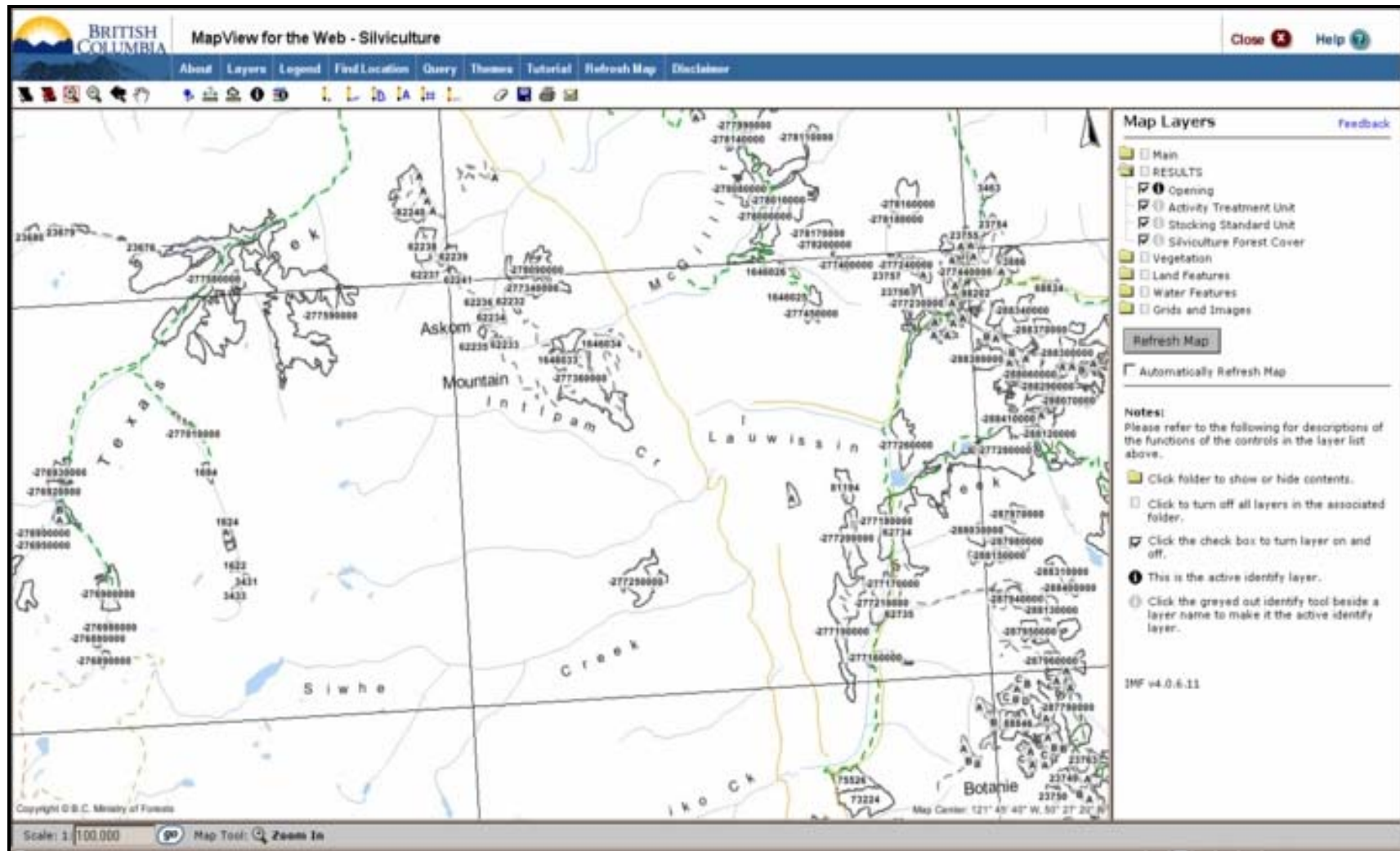


Figure 37 Example map produced on April 20, 2006 for Botanie Valley area showing available RESULTS openings.

11.2. Mapping wildfires – coordination with aerial mapping initiative

Collection of spatial data for wildfires (and mountain pine beetle affected areas) is funded under FFT. This project is led by Ministry of Agriculture and Lands (MAL) (previously by the Ministry of Sustainable Resource Management [MSRM] Vegetation Inventory mapping group).

Some areas of overlap exist between the ground survey work and the aerial mapping initiative. The aerial process is at a broader level of detail than ground surveys. For this reason clear documentation is needed of opening data that has been created/modified based on ground surveys versus aerial processes to ensure that field data integrity is maintained.

At a minimum, all Opening IDs modified or created based on field surveys should be retained in an electronic ledger consistent with RESULTS data standards. As a safeguard, paper copies of updated records should be kept for reference for either ministry or MAL/MSRM staff. Opening Summary Reports can be run after the data has been loaded into RESULTS. Run an “Opening Inquiry” on each opening, then on the main screen, use the “Opening Summary Report” link to print the opening summary report (Figure 38).

RESULTS

Application Home

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 District Status: APP - Approved

Client: WFM 10 Name: WEST FRASER MILLS LTD.

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

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

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

Go Clear SP Map Map View History FTA

RESULTS301 - Opening Inquiry

Back

Opening: 93A 017 0.0 900 Licensee Opening ID:

SP Exempt: N Opening Status: APP

Opening Category: FTML - Forest Tenure - Major Licensee Dist Admin Zone:

Tenure Type: A01 - Forest Licence Block Status: LC - Logging Complete

Admin Forest Org: DMH - 100 Mile House Forest District TSB:

Management Unit Type: U - TIMBER SUPPLY AREA Management Unit ID: 23 100 Mile House TSA

Tenure Admin Org: DMH - 100 Mile House Forest District

Original Approval: RRAATZ 1992-05-28 Current Amendment:

Actual Disturbance Start: 1988-11-01

Post Harvest Declared Date:

Regeneration Declared Date: 1990-01-01 Regeneration Offset: 2 Regeneration Due Date: 1990-11 Regeneration Overdue: No

Free Grow Declared Date: Free Grow Offset: 20 Free Grow Due Date: 2008-11 Free Growing Overdue: No

Figure 38 RESULTS301 – Opening Inquiry screen – access to Opening Summary Report

Figure 39 shows the first page excerpted from an 8 page report that contains all details relating to an opening with rendered map.

Reporting Silviculture and Land Tracking System Opening Details Report						Page: Page 1 of 8
Opening Number: 93C 053 0.0 10						Date Printed: 2005-08-22 12:55:10
						User Id: idir/mstol
						Database: DBP01
Opening Id: 31291	Opening Number: 93C 053 0.0 10	Opening Range:				
Forest File Id:	Cut Block:	Cut Permit:		Timbermark:		
Client Number:	Client Locn:	Opening Licensee:		Opening Category: *		
Org Unit: DCH	From Date:	To Date:		Comments: Y	Map Image: Y	
Admin						
Region:	RSI Southern Interior Forest Region	Status:	APP			
District:	DCH Chilcotin Forest District	Location:	BEEFTRAIL CREEK			
Client:	00075159 00	Name:	YUN KA WHUTEN HOLDINGS LTD.			
Opening:	93C 053 0.0 10	Opening Id:	31291	Lic Opening Id:		
Licence No:	A47409 CP: 53	Timber Mark:	FM4053	Cut Block:	401	
Exhibit A Areas (ha):	58.9	Dist Gross Area (ha):	58.9	NAR (ha):	54.1	
Forest Cover (ha):	58.9					
Opening:	93C 053 0.0 10	Lic Opening Id:				
SP Exempt:	N	Dist Admin Zone:				
Opening Cat:	FTFSM Forest Tenure - Forest Stand Management FPC s.71 Forest Licence	Block Status:	S	Silviculture		
Tenure Type:	A01	TSB:	29A	Wms LK TSA Anahim Block		
Admin Forest Org:	DCH Chilcotin Forest District	Mgmt Unit Id:	29	Williams Lake TSA		
Mgmt Unit Type:	U TIMBER SUPPLY AREA					
Tenure Admin Org:	DCH Chilcotin Forest District	Current Amendment	IDIR/KEALPHON 2005-01-27			
Original Approval:	MLSIS 1997-01-22					
Actual Dist Start:	1994-12-01	Post Harvest Declared:				
Regen Declared Date:	2001-07-01	Regen Due Date:	2001-12			
Free Grow Declared Date:		Free Grow Due Date:	2009-12			
Regen Overdue:	N	Post Harvest Overdue:	N			
Prev Stand Type:		Free Growing Overdue:	N			
Timber Type:						
SP1:		SP2:	Age Class:	Site Class:		
Height Class:		Stocking Class:	Site Index:	0	Site Index Source:	
Maximum Allowable Permanent Access:	7 %					
Last Updated By:	IDIR/SPYPER	Last Updated Date:	2005-02-04			
Spatial Data Exists:	Y	Opening Comments:	N			

Figure 39 Excerpt from Opening Details Report

12. Training

12.1. Courses

RESULTS training schedules are at <http://www.learningstore.com/bcmof>

Select **Topic: RESULTS Training** Then click .

Key courses:

- RESULTS & Mapview
- RESULTS Amalgamations and Forest Cover
- RESULTS Amendments and Updates
- RESULTS Obligation Reporting (Submissions)
- RESULTS Overview
- RESULTS Planning
- RESULTS Quickstart Tutorial
- RESULTS Report Session
- RESULTS Reporting (Advanced)
- RESULTS Stocking Standards under FSPs

Course materials and recordings for these courses are located at:

<ftp://ftp.for.gov.bc.ca/HIS/external!/publish/OnLineClassroom/Results/>

12.2. Other resources

Reference materials on RESULTS website: <http://www.for.gov.bc.ca/his/results/>

- RESULTS Tutorial
- Orientation Materials
- Reference Cards (aids to complete specific tasks)
- FAQs
- Communiques
- Technical Documentation (under “Supporting Documents”)

Appendix A – Guide to FDP Stocking Standards: Sample Page

Illustration of Reference Guide to FDP Stocking Standards

http://www.for.gov.bc.ca/ftp/hfp/external/!publish/Stocking%20Standards%20for%20FDPs/Reference_Guide.xls

BGC			Regeneration Guide						Free Growing Guide			
Classification			Species		Stocking(i)			Regen	Assessment		Min. Height(ii)	
			Conifer		Target	MIN pa	MIN p	Delay	Earliest	Latest	Species	Ht
Zone/SZ	Series	Standards ID	Preferred (p)	Acceptable (a)	(well-spaced/ha)			(Max yrs)	(yrs)	(yrs)	(m)	
ESSFdc ²	01	80000	PI Se	BI	1200	700	600	4	12	20	PI Others	1.6 0.8
	02*	-	PI ³²	BI ¹³ Se	-	-	-	-	-	-	-	-
	03	80001	PI	BI ¹³ Pa ^{9,17} Se	1000	500	400	7	15	20	PI Others	1.2 0.6
	04	80002	PI	BI ¹³ Se	1000	500	400	7	15	20	PI Others	1.2 0.6
	05	80003	PI Se	BI ^{10,13}	1000	500	400	7	15	20	PI Others	1.2 0.6
	06	80004	PI Se	BI	1200	700	600	4	12	20	PI Others	1.6 0.8
	07	80005	PI Se ³²	BI	1200	700	600	4	12	20	PI Others	1.6 0.8
	08	80006	PI ¹ Se ^{1,32}	BI ^{1,32}	1000	500	400	4	12	20	PI Others	1.2 0.6
	09	-	non-forested		-	-	-	-	-	-	-	-

Appendix B – Summary of Data Required for RESULTS Submissions under Government Funded Programs

Opening Definition

Field
Mapsheet Grid
Mapsheet Letter
Mapsheet Square
Mapsheet Quad
Mapsheet Subquad
Opening Number
Opening Category Code
Opening ID
Opening Gross Area
Previous Stand Type
Previous Species1 Code
Previous Species2
Previous Age Class
Previous Height Class Code
Previous Stock Class Code
Previous Site Index Code
Previous Site Index Source
Site Plan Exemption

Stocking Standards (when Reference Guide to FDP Stocking Standards is used)

Data Field
Opening No, Opening ID, or Timber Mark/Cut Block
SU
Net Area to be Reforested
BEC fields
Standards ID
Spatial (Map)

Stocking Standards (when unique standards are created and approved by the district manager)

Data Field
Opening No, Opening ID, or Timber Mark/Cut Block
SU
Net Area to be Reforested
Regen Due Date
FG Due Date
Preferred Species/Minimum Heights
Acceptable Species/Minimum Heights
Target Stocking
Minimum Preferred and Acceptable Stocking
Minimum Preferred Stocking
Max conifers stems/ha
Post spacing Min/Max
Minimum inter-tree distance
% Height above brush
Comment
Spatial (Map)

Activity: Disturbance

Field
Opening No, Opening ID, or Timber Mark/Cut Block
Technique
Disturbance Code
Disturbance Start Date
Disturbance Completion Date
Disturbance Area
Silvicultural System
Silvicultural Variant
Silvicultural Cut Phase
Forest Cover Submission

Activity: Completed or planned survey

Field
Opening No, Opening ID, or Timber Mark/Cut Block
Base
Technique
Method
Planned Date
Activity Completion Date
Funding Source
Net Area Treated
Project #
Forest Cover Submission

Activity: Planned treatment

Field
Opening No, Opening ID, or Timber Mark/Cut Block
Activity Base
Activity Technique
Method
Planned Date
Funding Source
Treated amount
Projected costs

Activity: Completed treatment

Field
Opening No, Opening ID, or Timber Mark/Cut Block
Base
Technique
Method
Activity Completion Date
Funding Source
Net Area Treated
Project #

Activity: Completed planting treatment – additional requirements

Field
Species
Number Planted
Number Beyond Transfer Limit
Lot
Forest Cover Submission

Forest cover: Polygon component (all stands)

Field
SU label
Polygon label
Gross Area
Reference year
Reserve Type and Reserve Objective (where applicable)
Site Index
Site Index Source
Tree Cover Pattern (where applicable)
Re-entry Year (where applicable)
Stocking status
Stocking type
Spatial location of each forest cover polygon (GML)
Non-mapped area

Forest cover: Even-aged stands, Inventory component

Field
I/S Component
Crown Closure
Basal Area
Total Stems/ha
Species %
Average Species Age
Average Species Height
Damage Agent
% Incidence of Damage Agent
Area Affected by Damage Agent
Spatial location of each forest cover polygon (GML)

Forest cover: Even-aged stands, Silviculture component

Field
I/S Component
Basal Area
Total Well Spaced Stems/ha
Well Spaced Stems/ha
Free Growing Stems/ha
Species %
Average Species Age
Average Species Height
Damage Agent
% Incidence of Damage Agent
Area Affected by Damage Agent

Forest cover: Multi-layer stands, Inventory component

Field
I/S Component
Canopy Layer
Crown Closure
Basal Area
Total Stems/ha
Species %
Average Species Age
Average Species Height
Damage Agent
% Incidence of Damage Agent
Area Affected by Damage Agent
Total Well Spaced Stems/ha
Well Spaced Stems/ha
Free Growing Stems/ha

Declarations

Field
SU
Declaration type
Declared date
Comment
Forest Cover Submission

Appendix C – Request for IDIR Account

Please complete this form and submit it to your contract administrator.

To apply for an IDIR account for submissions relating to the FFT program, complete and fax the IDIR Account Application Form to:

Forests for Tomorrow Program, @ FAX 250-387-2136; or,

For other government funded programs, submit the IDIR Account Application Form to the ministry contract administrator.

IDIR Account Application Form

Please complete the following fields for IDIR account requests. Submit application to *Forests for Tomorrow Program*, @ FAX 250-387-2136, for submissions relating to the FFT program; or, to the applicable ministry contract administrator, for submissions relating to other programs.

Name and contact information of the client(s) for whom the applicant processes RESULTS data

Name of the ministry contract administrator (where applicable)

Full name of the applicant

Address of the applicant

E-mail of the applicant

Phone number of the applicant

Length of time required for the account

Check required authority level(s)

Check (√)	Authority Levels
	RESULTS Approval: create new opening definitions, assign openings and approve opening-related information (ministry IDIR only)
	RESULTS Declaration: make an on-line declaration (RPF's only)
	RESULTS Update: update opening-related information
	RESULTS Report: run reports through the Corporate Reporting System (CRS)
	RESULTS View: run general inquiries

Description of the nature of the work for which the account is required

Statement regarding whether the applicant has been authorized by the client to submit data on behalf of the client

Statement of the applicant's credentials (e.g., registration with professional organization such as the Association of British Columbia Forest Professionals)

Appendix D – Application for Removing an Opening

Please complete the following fields for requests related to removing an opening from RESULTS. Submit application to FORHISP.APPHELP@gems5.gov.bc.ca. Use the title: "Request to remove an opening from RESULTS".

[illegible]