



Ministry
of Forests



FFT RESULTS Field Data Capture Standard

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1.0 APPLICATION

This standard specifies mandatory data elements to be loaded into RESULTS from wildfire and mountain pine beetle (MPB) affected areas funded under the *Forest For Tomorrow* (FFT) program. This standard does not include instructions for how to use RESULTS, or mapping and survey standards.

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

This standard is to be used in conjunction with *Results Information Submission Specifications – Government Funded Silviculture Activities*.

2.0 OPTIONS FOR LOADING DATA TO RESULTS

2.1 Clients may:

- (a) Load the data directly into RESULTS themselves; or
- (b) Secure qualified service providers to load the data into RESULTS on their behalf. A partial list of service providers is at www.for.gov.bc.ca/his/esd/ServiceProviders.pdf

2.2 Regardless of whether a client loads the data to RESULTS directly or uses a service provider, the requirements of this standard apply.

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

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

3.0 ACCESS AND AUTHORIZATION TO BC GOVERNMENT SYSTEMS

3.1 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.

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

(a) BCeID – an online service for private sector clients to securely access any BCeID-participating British Columbia government web site.

i. See <https://www.bceid.ca/>.

ii. The BCeID does not allow user to create an opening

(b) 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 ministry (e.g., contractors) under the following conditions:

i. The IDIR account is never used by anyone other than the person to whom it has been issued.

ii. To apply for an IDIR account, submit a fax request to 250-387-2136 c/o *Forests for Tomorrow Program*. Submissions must include the following information:

1. 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)

2. full name of the applicant

3. address of the applicant

4. e-mail of the applicant

5. phone number of the applicant

6. length of time required for the account

7. statement regarding whether the applicant has been authorized by the client to submit data on behalf of the client

8. statement of the applicant's credentials (e.g., registration with professional organization such as the *Association of British Columbia Forest Professionals*) if applicable.

3.3 Both ESF and RESULTS have various authority levels that allow a user to perform certain activities.

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

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

- (c) Only users with IDIR accounts can create new opening definitions.

4.0 LOADING DATA DIRECTLY IN THE RESULTS APPLICATION

4.1 Anyone who loads data directly to RESULTS must have the necessary authority, qualifications and training.

- (a) Users (or service providers) must be trained in the use of this software.
- (b) The ministry is not responsible for training.
- (c) The ministry provides assistance to users who encounter difficulties through the Application Help Desk Service (forhisp.apphelp@gov.bc.ca).

5.0 LOADING DATA THROUGH THE ESF

5.1 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/esf/index_ressub.htm). Specialised software is required to generate the XML and GML documents.

- (a) Users (or service providers) must be trained in the use of this software.
- (b) The ministry is not responsible for training.
- (c) The ministry provides assistance to users who encounter difficulties through the Application Help Desk Service (forhisp.apphelp@gov.bc.ca).

6.0 DATA CAPTURE REQUIREMENTS

6.1 Data loaded into RESULTS must follow submission requirements in the [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Government Funded Silviculture Activities](#).

- i. This guide describes submission requirements for tenure holders; however, the ESF and submission and data standards are the same for submissions relating to the FFT program, with the exception that new opening definitions are sometimes needed to be assigned and activated by district staff before a submission can be prepared by the client or user.

6.2 The following data elements must be entered into RESULTS after a field survey has been completed for the FFT program. No legal obligations are associated with these areas; however, the ministry's objective is to manage these areas consistent with the requirements of the *Forest and Range Practices Act* (FRPA):

- (a) Opening definition
 - i. Create a new opening definition
 - 1. Many FFT treated areas in wildfire or MPB infested areas will have a new opening created but consult [RESULTS INFORMATION SUBMISSION SPECIFICATIONS Government](#)

[Funded Silviculture Activities](#) to determine if an existing opening should be updated.

- ii. Set the openings category to the appropriate natural disturbance designation
 - iii. Set the SP (Site Plan) Exempt to "Y"
 - iv. Provide the previous stand data (Previous Stand Type and Previous Timber Type fields)
- (b) Stocking Standards. Where treatments are proposed, load Stocking Standard information including:
- i. For cases where the stocking standards are in accordance with the *Reference Guide to FDP Stocking Standards*:
 - 1. Standards Unit (SU)
 - 2. Net Area to be Reforested
 - 3. Standards ID
 - 4. Biogeoclimatic Ecosystem Classification (BEC) data (e.g., BGC Zone, BGC Subzone, Variant, Site Series)
 - 5. Spatial map that shows the location of each SU (GML)
 - ii. For cases where unique standards are created (subject to district manager approval):
 - 1. SU
 - 2. Net Area to be Reforested
 - 3. Regen offset (Regeneration delay period - automatically sets the Regeneration due date)
 - 4. Late offset (Free growing assessment period - automatically sets the Free Growing due date)
 - 5. Preferred Species/Minimum Heights
 - 6. Acceptable Species/Minimum Heights
 - 7. Target Stocking (Well-spaced Trees/hectare)
 - 8. Minimum horizontal inter-tree distance (meters)
 - 9. Minimum Preferred Stocking (Min Pref)
 - 10. Minimum Preferred and Acceptable Stocking (Min)
 - 11. Maximum number of coniferous (trees/hectare)
 - 12. % Height relative to competition
 - 13. Spatial map that shows the location of each SU (GML)
- (c) Forest Cover. Load forest cover data that meets ministry precision and mapping standards specified in the *Silviculture Information Submission Guide*, including:
- i. SU and Polygon labels:
 - ii. Area (gross and net)
 - iii. Reference year (year of survey)
 - iv. Stocking status and type
 - v. Inventory and Silviculture layer data (Crown Closure, Basal Area, Total Stems/ha, 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)

- vi. Reserve Type and Reserve Objective (where applicable)
- vii. Spatial location of each forest cover polygon (GML)

(d) Activities

- i. Two (minimum) activities require mandatory data:
 - 1. Disturbance activity data:
 - a. Disturbance Code
 - b. Disturbance Start and End Dates (provide estimates)
 - c. Disturbance (Gross) Area
 - 2. Survey activity data:
 - a. Base = SU
 - b. Technique (RE-Reconnaissance or RG-Regen/Stocking)
 - c. Method (RECCE, WALK, PLOT, or other appropriate code)
 - d. Funding Source
 - e. Activity Completion Date
 - f. Treated Amount (Net Area surveyed in hectares)
 - g. Project # (if available)
 - h. Projected costs (provide estimate of survey cost)
- ii. Where treatments are planned or completed, load activity data to the following fields as applicable:
 - 1. Planned Silviculture Activity
 - a. Base
 - b. Technique
 - c. Method
 - d. Objective (at least one silvicultural objective)
 - e. Planned Date
 - f. Projected Costs (estimate)
 - g. Funding Source = FTM
 - h. Treated Amount (planned number of hectares to be treated)
 - i. Project Number
 - 2. Completed Silviculture Activity
 - a. Base
 - i. If Base=Planting, the load the following data for each species planted: Species, Number Planted, Number Beyond Transfer Limit, Lot
 - b. Technique
 - c. Method
 - d. Objective (at least one silvicultural objective)
 - e. Completion Date
 - f. Projected Costs (actual costs if available, otherwise provide estimate)

- g. Funding Source = FTM
 - h. Treated Amount (number of hectares treated)
 - i. Project Number
- iii. Treatment maps are required for all treatments and can be supplied as either pdf documents attached to the applicable opening in RESULTS, or as GML data included with the ESF submission document.
 - iv. Treatments which modify the inventory and/or silviculture forest cover labels, and/or surveys which provide updated inventory and/or silviculture forest cover data require forest cover submissions including attribute and spatial data must be submitted to RESULTS.
 - 1. If more than one silviculture activity occurs within a given reporting period, on a given opening, under the responsibility of a given project administrator, then forest cover XML and GML may be submitted after the last activity is completed in that reporting period

Summary

Disturbance/Activity	Disturbance XML (attribute)	Disturbance GML (spatial)	Activity XML (attribute)	Activity Spatial GML and/or pdf	Forest cover XML & GML (attribute and spatial)
Disturbance	Required	Optional	N/A	N/A	Required
Completed surveys	N/A	N/A	Required	GML or pdf attachment	Required
Completed Planting	N/A	N/A	Required	GML or pdf attachment	Required
Danger Tree assessment and Felling	N/A	N/A	Required	Conditional (pdf required if only portions of opening have been assessed / felled)	Conditional (only if inventory of the block has changed from what is currently recorded)
Completed Brushing and Site Preparation	N/A	N/A	Required	GML or pdf attachment	Conditional (only if inventory of the block has changed from what is currently recorded)
Completed Fertilization and other large broadcast treatments	N/A	N/A	Required	GML	Required
Planned Surveys and Treatments	N/A	N/A	Required	Optional	N/A