

RESULTS INFORMATION SUBMISSION SPECIFICATIONS

Form and Manner of Reporting

Forest Investment Program

Edition 3

March 2024

FOREWORD

This document was developed to provide guidance for reporting activities funded under the Forest Investment Program (FIP). This document contains information submission specifications which pertains to what is required in each electronic submission or submission entry field. For more details on business requirements and 'how to', users can access specific topic related training modules on the <u>RESULTS</u> website. Separate RISS documents are available for Licensee reporting requirements and other Government Funded Programs requirements, including Wildfire Risk Reduction, Restoration & Conservation, Forest Enhancement Society of BC, and FRPA s108 and s107.

ACKNOWLEDGMENTS

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1. PURPOSE

This guide summarizes requirements for preparing and submitting information pertaining to the Ministry of Forests (FOR), Forest Investment Program (FIP) administered by the Forest Investment and Reporting Branch (FIRB) under the Office of the Chief Forester. FIP funds reforestation on areas impacted by pest, drought and wildfires, conducts fertilization, fibre utilization and road rehabilitation projects on Crown Land. Specific details on the silviculture activities funded under the FIP can be provided by FIRB.

General user and formatting submission specifications, including field definitions, are summarized in the *RESULTS Information Submission Specifications - Licensee Submissions* (RISS-ls) document.

Submission specifications for all other government funded programs are summarized in the *RESULTS Information Submission Specifications – Government Funded Programs* (RISS-gf) document. This includes, Habitat Enhancement, Restoration & Conservation, Wildfire Risk Reduction, Forest Enhancement Society of BC, FRPA s.107 Declarations and FRPA s.108 Applications.

- Information on how to use RESULTS is found on the <u>RESULTS website</u>.
- Access to RESULTS is governed by the RESULTS Access Policy (expand the relevant section under Application Access on the above website); and,
- <u>RESULTS training material</u> and documentation, including pre-recorded sessions are also available.

2. REPORTING TIMELINES

All planting activities funded by FIP must be submitted to RESULTS on or before November 30. All other silviculture activities funded by FIP must be submitted to RESULTS on or before March 31.

3. APPLICATION

This guide provides direction to individuals who submit silviculture data to RESULTS as part of the FIP in accordance with FOR contractual agreements.

Sections 6 to 11 of this document provide information on general RESULTS submissions including opening definition, stocking standards, denudation, planned and completed activities, and forest cover.

Sections 12 to 18 include specific information for the following activities:

Section 12. Guidance for Managing Large Disturbance Areas (Wildfire & Pest)

Section 13. Fertilization for Stand Enhancement

Section 14. Juvenile spacing

Section 15. Road Rehabilitation

Section 16. Residual Fibre & Burning Avoidance

Section 17. Aerial Application for Insect Defoliators

Section 18. 2 Billion Tree Program Funded Directly by Federal Government

Sections 19 and 20 cover data discrepancies and quality assurance.

4. INTRODUCTION

RESULTS tracks silviculture information on the land base by managing submissions of opening definitions, disturbances, silviculture and habitat activities, forest cover and obligation declarations as required by FRPA, FPPR and the Woodlot Licence Planning and Practices Regulation (WLPPR).

RESULTS also tracks the following:

- Government funded activities on managed natural disturbance stands;
- Government funded activities on any free growing stands with previous licensee silviculture obligations;
- Government funded activities where the licensee is insolvent;
- Government funded activities on GAR mitigation openings;
- Forest Enhancement Society of BC (FESBC) funded projects with an on-the-ground component;
- Government funded fertilization activities;
- Wildfire Risk Reduction funded activities;
- Habitat Restoration, Enhancement and Conservation activities; and
- Federal Government funded reforestation activities.

RESULTS stores the following information:

- Opening definitions;
- Standards units and associated stocking standards;
- Disturbance (e.g. harvest, natural disturbance, etc.), silviculture, wildfire risk reduction and habitat activities and surveys;
- Forest cover and land status summary;
- Milestone declarations (regeneration and free growing);
- Standard unit modification history;
- Forward planning;
- Spatial data such as opening, standard units, disturbance activities, silviculture activities and forest cover;
- Comments relevant to the history of the opening; and
- Attachments: 'mandatory' information pertinent to the management of the openings.

The information supplied to RESULTS is used to:

- 1. Calculate statistics that support the provincial allowable annual cut allocations as part of the provincial timber supply review.
- 2. Support reporting on Performance Measures identified in the FOR *Annual Service Plan Report*.
- 3. Supply statistics for the BC State of Forest Investment Reporting.
- 4. Update the provincial forest inventory.

- 5. Update the fuel type inventory for use in the Provincial Strategic Threat Assessment.
- 6. Identify stands that are funded under Federal funding sources.
- 7. Provide spatial data for publication and use in the GeoBC/Data BC Catalogue.
- 8. Provide supporting documentation for calculation of greenhouse gas emissions.
- 9. Provide supporting documentation for completed work.
- 10. Monitor submitters for compliance with reporting requirements.

5. ACCESS AND SUPPORT

5.1 AUTHORIZATION TO BC GOVERNMENT SYSTEMS

RESULTS and ESF systems are accessed by authorized users with either BCeID or IDIR accounts. To be granted access to the RESULTS application, a user must complete two steps:

- 1. Register for a BCeID business account or IDIR account; and,
- 2. Apply for access to RESULTS (through the RESULTS Online Access Request Service).

BCeID and IDIR Accounts

<u>BCeID</u> – an online service for private sector clients to securely access any BCeID participating British Columbia (BC) government website. Register for a <u>BCeID</u> account for submissions relating to the FIP programs. BCeID accounts are issued for <u>most</u> RESULTS submissions associated with government funded projects.

<u>IDIR</u> – accounts are only issued to third party program administrators.

5.1.1 RESULTS Access

BCeID or IDIR account holders may apply for RESULTS access. Access is granted via RESULTS Online Access Request.

Applicants are granted access to RESULTS after completion of RESULTS training and/or by demonstrating competency through online testing. Access is granted for 2 years as per current user access policy. On or before expiry date, the authorized user must re-apply to renew access. Training modules and descriptions are available at Results Training and Resources.

5.2 SUPPORT

- 1. Reference materials are available on the <u>RESULTS Business and Policy</u> Documentation.
- 2. RESULTS support is available via the Business service desk NRSenquiries@gov.bc.ca
- 3. Results Technical Documentation

6. GENERAL DATA SPECIFICATIONS

General user and formatting submission specifications are found in the <u>RESULTS</u> <u>Information Submission Specifications - Licensee Submissions</u>. This document specifies additional content requirements and FOR policy applied to submissions related to FIP funded activities.

6.1 OPENING CATEGORIES

Opening Category Codes (Table 1) in RESULTS are meant to identify specific program areas and are based on program description, silviculture obligations, disturbance type and silviculture responsibility.

Table 1. Opening Category Codes

Code	Description	Details
CONT	Non-tenured agreements under FIP and FESBC; use NDFS if the activities are a result of a natural disturbance. Non-tenured agreements under the federally funded 2 Billion Tree Program (not administered by FOR).	This would include planting, stand conversion, habitat enhancement, stand rehabilitation or operational fuel treatments.
EXCLU Openings excluded from Crown Managed Forests.		Openings within parks or other protected areas, openings on Federally managed land, or openings on Crown land that have been transferred to private ownership.
FFTFLTC		
Innovative Timber Sale License. The opening BCTS initiative		BCTS initiative, BCTS administered, restricted to the FIP program.
FTMSL Forest Tenure – Ministry Silviculture Liability Instances where insolvent, the open and the Ministry		Instances where a licensee has become insolvent, the opening is not free growing, and the Ministry is now managing the silviculture liabilities.
NDAML Natural Disturbance – Area-based Major Lice		Non-tenured post-87, fire, wind, severe drought, insect or disease attack in major licensee area-based tenures (excluding community forests and woodlots).
NDCF Natural Disturbance – Community Forest		Non-tenured post-87, fire, wind, severe drought, insect or disease attack in community forest tenures.
NDFS	Natural Disturbance – Forest Service	Non-tenured post-87, fire, wind, severe drought, insect or disease attack in areas with no overlapping silviculture obligations. Includes under-planted stands (no overstorey removal).
NDVML Natural Disturbance - volume-based Major Licensee dr		Non-tenured post-87, fire, wind, severe drought, insect or disease attack in major licensee volume-based tenures.
		Non-tenured post-87, fire, wind, severe drought, insect or disease attack in woodlot tenures.
NREQ	Areas not under tenure where site plans or stand management prescriptions are not required.	Government, FESBC or FIP funded activities such as fertilization, juvenile spacing, and aerial defoliator spraying.
Areas under tenure that are exempt from site plan requirements.		No reforestation or free growing obligations exist. SSS without free growing obligations.

6.2 RECORD MANAGEMENT

6.2.1 Approval

Some FIP funded program submissions (e.g. amendments, stocking standards) may require Natural Resource District Manager approval. The submitter should notify either the RESULTS Coordinator(s) of the applicable district(s) and/or the FOR Project Administrators after submitting items that require district approval, to ensure these documents are assessed and approved in a timely fashion.

6.2.2 Inter-Agency Number

The inter-agency field in RESULTS is designed to reconcile project completion with allocated funding.

For BCTS and District-administered silviculture activities use the project number from the FIP allocation letters as the inter-agency number.

For third-party administered silviculture activities use the unique identifier or project number provided by the third-party.

6.3 RESULTS DATA AND MAPPING STANDARDS

Data and mapping standards are described in <u>RISS-ls</u> and <u>RESULTS technical specifications</u>.

Professionals and non-professional staff who collect and prepare data for RESULTS submissions are expected to be familiar with data requirements and required precision and accuracy.

6.4 REPORTING TO NEW OPENING OR AN EXISTING FG OPENING

When RESULTS submissions are initiated, submitters must determine whether they submit to an existing opening (Section 6.4.1) or create a new opening (Section 6.4.2).

FIP funded projects will be reported to new openings except where they occur on existing FFTITSL openings or if a survey is completed and no treatment is recommended.

6.4.1 Existing FG Opening

Survey activities that are completed on large disturbance areas can be entered into existing FG openings if **No Treatment is Recommended** for the surveyed area. However, the forest cover is **NOT** updated for the opening.

Please note that No UPDATES are to be carried out on existing free growing tenured openings or FG standard units within active openings. Tenured openings include the following opening categories: <u>FTML, FTWL, FTCF, FTSBF, FTLEVY, FTNOLVY, or FTFSM.</u>

This is critical to maintaining current forest cover on areas where silviculture obligations existed.

6.4.2 New Opening (non-tenured and tenure)

New openings are created as non-tenured openings or tenured openings.

6.4.2.1 Non-Tenured Openings

Non-tenured openings may be created for:

- Activities on FG tenured openings or FG standards units (see box above);
- Completed treatment(s) and/or disturbance(s) that span several openings;
- Treatments on unmanaged stands where the area is not under any form of tenure;
- Juvenile spacing activities;
- Road rehabilitation activities;
- Fertilization activities:
- Aerial Defoliator activities;
- FIP funded activities, except those that occur on FFTITSL openings.

Where new activities cover only a portion of an existing opening, it is preferable to create a new opening to avoid resubmitting existing forest cover for the untreated area. Non-tenured openings should only include the area being treated. Do not include reserve polygons or areas not being treated.

Non-tenured openings must be created online in RESULTS using the "ADD" button at the bottom of the Opening Inquiry Screen. Mandatory attributes for non-tenured openings include Opening Category, Gross Area and Approval Date (date of survey or current date). Previous stand history is not required. The Opening Id is provided once the opening is created, ensure the Opening Id is recorded for use in future ESF submissions and reporting.

6.4.2.2 Tenured Openings

When a new tenure is created to complete harvesting activities, a new opening is created and subsequent activities are reported to that opening. Tenured openings can be created using an ESF submission or online in RESULTS.

• Forestry License to Cut (FLTC)

For all activities conducted on FLTCs under the FIP program, the opening category code FFTFLTC must be used. FIP surveys and other activities conducted over an area prior to the establishment of an FLTC are reported via non-tenured openings.

• Innovative Timber Sale License (ITSL)

For reporting activities under ITSL that have a shared responsibility between BCTS and FIP:

- 1. FIP surveys and other activities conducted over an area <u>prior to the</u> <u>establishment of an ITSL</u> are reported via non-tenured openings using opening category NREQ;
- 2. BCTS initiates the ITSL and disturbance harvesting occurs;
- 3. BCTS tracks the opening and disturbance in the Land Resource Manager (LRM) as if they hold the silviculture liabilities;
- 4. BCTS creates a new RESULTS opening using 'FFTITSL' opening category and supplies the opening definition, the standards units and

- associated stocking standards, the disturbance activity and denuded forest cover;
- 5. Subsequent silviculture activities and updates (surveys, planting, forest cover updates, milestones, etc.) are reported to the FFTITSL opening created by BCTS (Step 4 above). FFTITSL is a viewable category and as such, the records will be available for other submitters to manage and update.

7. OPENING DEFINITION SUBMISSION

An opening must exist in RESULTS before other attributes or spatial data can be submitted.

Opening spatial submission and/or update is mandatory on all existing and new openings where forest cover is submitted.

7.1 OPENING DEFINITION DATA REQUIREMENTS

Please refer to RISS-ls.

Where non-tenured openings are created to report activities on area-based tenures (i.e. TFLs, Community Forests, First Nations Woodland Licenses, and Woodlots), the following procedures must be followed when the opening is created:

- 1. Include the License (Forest File ID no cutting permits or blocks)
- 2. Submit all fields in the Pre-Harvest Stand Label (Previous Stand Type, Species1, Age Class, Height Class, Stocking Class, Site Index and Site Index Source).

7.2 CHANGES TO OPENING DEFINITIONS

Occasionally, opening definitions may require updates because of changes to the landscape, new or better information or because of administrative changes (e.g. tenure information). RESULTS accommodates three kinds of changes to openings definitions:

- 1. **Spatial and Attribute Area Update:** to revise spatial boundaries and attributes of affected openings.
- 2. Retire: to permanently disable the opening from receiving further updates (the records associated with these openings are not deleted). History associated with the opening is archived. FOR staff with Approval authorisation may retire openings.

 Where a managed non-tenured opening (except fertilization) entirely overlaps one or more existing free growing openings, the free growing opening(s) must be retired.
- 3. **Delete:** to completely delete an opening record from RESULTS. History associated with the opening is permanently removed and is not archived. Candidate records for deletion are usually openings that were submitted in error. Deletions are completed with the assistance of NRS Application Service Desk staff.

8. STOCKING STANDARDS SUBMISSION

Stocking standards and Biogeoclimatic Ecosystem Classification (BEC) information are required for openings under FOR responsibility. While these areas have no legal obligations, the objective is to manage them like obligated areas under FRPA. Stocking standards are assigned to establish the regeneration and free growing milestones that enable the FOR to monitor reforestation progress.

Standard Units (SUs) are created through Opening Definition submissions where surveys or reforestation activities will occur within an opening. Where SUs are created only for submitting regeneration and/or free growing declarations, assign the SUs and associated stocking standards or stocking Standard IDs (SSIDs) based on the stocking and free growing survey parameters that were used to make the assessments.

Stocking standards are assigned to SUs as follow:

- 1. <u>PREFERRED METHOD Provincial Default Standards</u> in accordance with the <u>Reference Guide for Forest Development Plan (FDP) Stocking Standards</u>. Data requirements in Table 2 apply.
 - ✓ From FDP Stocking Standard document: the appropriate SSID that matches the desired stocking standards may be used for most government funded projects where the stocking standard is primarily based on BEC.
- 2. <u>UNIQUE CIRCUMSTANCES District-Approved Default or other FOR-Approved Standards</u>
 - ✓ *Individual standards* may be loaded into RESULTS for given SUs in consultation with, and under the direction of, District silviculture staff and the FOR contract administrator. This may be desirable for stands with management objectives that are not reflected in the Provincial default standards in the *Reference Guide for Forest Development Plan Stocking Standards*. In this case, the stocking standards are sent to the RESULTS Inbox for District approval. Data requirements in Table 3 apply. Stocking standards for government-funded projects are not developed through the Forest Stewardship Plan Tracking System.

8.1 STOCKING STANDARDS DATA REQUIREMENTS

Depending on the option chosen to assign stocking standards, Table 2 and Table 3 list mandatory information required for stocking standard submissions. SU Spatial is mandatory and can only be submitted via ESF.

Note that for Natural Disturbance (ND*), NREQ, and SPEX opening categories, RG and FG milestone dates are calculated from the approval date of the opening, not the DN start date. Offset years may need to be adjusted so that the milestone dates are appropriate for each SU.

Table 2. Minimum Stocking Standard Data Requirements for Site Plan Openings using SSIDs

Field	Details
Mapsheet & Opening No, Opening ID,	Must use one of the mandatory keys used for RESULTS ESF
Timber Mark/Cut Block; Licence/CP/Cut	Submission.
Block	
SU	A unique alphanumeric identifier.
Net Area to be Reforested (NAR)	Area in hectares must be > 0 .
BEC fields	BEC zone, subzone, and site series.
SSID	Unique number in the <u>Reference Guide to Forest Development</u>
	<u>Plan Stocking Standards</u> , specific to ecosystems within each
	region, to which a specific set of stocking standards has been
	assigned. When entered, all related stocking standards are
	automatically generated for the defined SU in RESULTS.
Spatial (Map) for areas that will receive	SU boundaries must be provided in spatial submission (via
treatment	ESF). *Roads and landings are not mapped, only the outer
	boundaries are to be submitted

Table 3. Minimum Stocking Standard Data Requirements for Silviculture Prescription Openings (no SSIDs)

Field	Details
Mapsheet & Opening No, Opening ID, Timber Mark/Cut Block; Licence/CP/Cut Block	Must use one of the mandatory keys used for RESULTS ESF Submission.
SU	A unique alphanumeric identifier.
Net Area to be Reforested (NAR)	Area in hectares must be > 0 .
Regen Offset	The end of the period, following the commencement date, by which a stand being established on the NAR must conform to regeneration stocking standards. In RESULTS, this is an offset field called 'Regen'.
FG Offsets	The end of the period, following the commencement date, by which a stand being established on the NAR must conform to free growing stocking standards. In RESULTS, the offsets fields are referred to as 'Early' and 'Late'.
Preferred Species/Minimum Heights	Preferred species and the minimum heights that must be attained by the preferred species in meters.
Acceptable Species/Minimum Heights	Acceptable species and the minimum heights that must be attained by the acceptable species in meters.
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/ha, 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.

Field	Details
Comment	Required where applicable to expand or justify stocking
	requirements. Select a standards comment type code, then type
	applicable comment related to stocking standards.
Spatial	SU boundaries must be provided in spatial submission (via
	ESF). *Roads and landings are not mapped, only the outer
	boundaries are to be submitted

8.2 MODIFICATIONS TO STANDARDS UNITS

Modifications to SUs and associated stocking standards are submitted into RESULTS via ESF if spatial updates are required. If there are no changes to the spatial data, the updates may be submitted online.

Changes to site plan openings, which do not require approval, may be made through a site plan amendment.

Changes to FOR Approved Stocking Standards that do not require approval (NAR adjustment because of better available information) may be made via a minor amendment. Any other updates required to stocking standards must be submitted via a major amendment and will require approval. The correction functionality is only used to update erroneous information that is not consistent with the latest approved version of the prescription or submitted in error.

9. DISTURBANCE AND SILVICULTURE ACTIVITIES SUBMISSION

Data requirements are described for four activities: disturbance, surveys, planned treatments, and completed treatments.

9.1 DISTURBANCE DATA REQUIREMENTS

Fields in Table 4 are required with disturbance submissions. Data fields not listed in the table are optional. <u>Disturbance reporting must be accompanied by forest cover updates that include both spatial and attributes information.</u> Disturbance activities may be reported online in RESULTS or through the ESF.

Table 4. Disturbance Activity Data Requirements

Field	Details
Mapsheet & Opening No, Opening ID, Timber	Must use one of the mandatory keys used for RESULTS
Mark/Cut Block; Licence/CP/Cut Block	ESF Submission
Disturbance Code	As appropriate:
	B (burned, wildfire)
	E (stand enhancement)
	F (flood)
	I (slide)
	L (logged)
	P (pest – e.g. beetle)
	R (rehabilitation)
	S (salvage)
	W (wind damage)
Disturbance Start Date	YYYY-MM-DD

Field	Details
Disturbance Completion Date	YYYY-MM-DD
Disturbance Area	In hectares
Silvicultural System	Required for projects that involve harvest activity. e.g. CLEAR, CCRES, SELEC
Silvicultural Variant	Conditionally required for IMCUT, SEEDT, SELEC, SHELT.
Silvicultural Cut Phase	Required for projects (e.g. salvage) that involve harvest activity. e.g. REMOV, SALV

9.2 SURVEYS (PLANNED OR COMPLETED) DATA REQUIREMENTS

Fields in Table 5 are required with planned or completed survey submissions. Data fields not listed on the table are optional. Submit survey submissions through an ESF submission since spatial is mandatory.

Table 5. Survey Activity Data Requirements

Field	Details
Mapsheet & Opening No, Opening ID, Timber Mark/Cut Block; Licence/CP/Cut Block	Must use one of the mandatory keys used for RESULTS ESF Submission.
Base	SU
Technique	RE (Reconnaissance)
	RG (Regen/Stocking)
	RA (Regen Performance Assessment)
	FG (Free Growing)
	SU (Survival)
	Or other appropriate code relevant to program requirement.
Method	PLOT
	RECCE
	WALK
Activity Status Indicator	Or other appropriate code relevant to program requirement Set to 'Planned' or 'Complete' as appropriate.
(in RESULTS)	Some ESF submission software has an Actual Date Indicator instead of an
(III KESOL 13)	Activity Status indicator. In the case of a 'yes' or 'no' indicator.
	• Set to 'no' if the survey is planned.
	Set to 'yes' if the survey has been completed.
Activity Date	YYYY-MM-DD. Date of the planned or completed survey.
(Planned or Completion Date)	For ESF submission software that does not have an 'Activity Status' indicator:
,	• If <i>Actual Date Indicator</i> is set to 'no' this the planned commencement date for the survey.
	• If <i>Actual Date Indicator</i> is set to 'yes', this is the date on which the survey was completed.
Funding Source	FIP
Net Area Treated	Areas surveyed, in hectares
Cost	Not required
Inter-agency No.	See Section 6.2.2
Activity Spatial	Mandatory *Roads and landings are not mapped, only the outer boundaries
	are to be submitted
Attachments	Survey documents must be attached to the opening

Field	Details
Forest Cover	Forest cover updates, both attribute and spatial, are required based on survey
	technique or as specified by program area. *Roads and landings are not
	mapped, only the outer boundaries are to be submitted

9.3 PLANNED TREATMENTS DATA REQUIREMENTS

Forward planning to free growing, using planned activities, is required for FIP treatment areas. The fields in Table 6 are required for planned treatment submissions, all other data fields are optional. Submit planned treatment submissions through an ESF submission since spatial is mandatory.

Table 6. Planned Treatment Data Requirements

Field	Details
Mapsheet & Opening No,	Must use one of the mandatory keys used for RESULTS ESF Submission.
Opening ID, Timber	
Mark/Cut Block;	
Licence/CP/Cut Block	
Activity Base	Select appropriate codes for the planned activity. At a minimum, include
Activity Technique	Activity Base. For complete list of valid codes and associated descriptions
Method	please refer to the code tables in the Forest Investment Program RESULTS
	Codes.
Activity Status Indicator	Set status to 'Planned'.
(RESULTS)	(Note: Some ESF submission software has an 'Actual Date Indicator' instead
	of an Activity Status indicator. In this case, for planned data, set Actual Date
	Indicator to 'no'.)
Planned Date	YYYY-MM-DD (planned commencement date of activity)
Funding Source	FIP
Treated amount	Planned number of hectares proposed for treatment.
Planned Cost	Not required
Spatial	Mandatory. *Roads and landings are not mapped, only the outer
	boundaries are to be submitted

9.4 COMPLETED TREATMENTS DATA REQUIREMENTS

Fields in Table 7 are required with completed treatment submissions. Data fields not listed in the table are optional. Transmit completed treatment submissions through an ESF submission since spatial is mandatory. Forest cover submissions with spatial information accompany completed treatment submissions.

*Note: in order to avoid creating orphan records, when reporting previously planned activities, please ensure the planned records and associated attributes are updated to complete.

Table 7. Completed Activity Data Requirements

Field	Details
Mapsheet & Opening No, Opening ID,	Must use one of the mandatory keys used for RESULTS ESF
Timber Mark/Cut Block;	Submission
Licence/CP/Cut Block	
Base	For complete list of valid codes and associated descriptions please
Technique	refer to the code tables in the Forest Investment Program RESULTS
	<u>Codes</u> .
Activity Status Indicator (RESULTS)	Set status to 'Complete'. (Note: Some ESF submission software
	has an 'Actual Date Indicator' instead of an Activity Status
	indicator. In this case, for activity completion data, set Actual Date
	Indicator to 'yes'.)
Activity Completion Date	YYYY-MM-DD
Funding Source	FIP
Treatment Cost	Not required
Net Area Treated	Area treated, in hectares
Inter-agency No.	See Section 6.2.2
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer
	boundaries are to be submitted
Forest Cover	Forest cover updates are required with all government funded
	programs where a treatment and/or activity results in a change in
	forest cover attributes. *Roads and landings are not mapped, only
	the outer boundaries are to be submitted

Table 8. Completed Planting Activity Data Requirements

Field	Details
Base	PL
Technique	FP (Fill Planting)
	PL (Planting)
	RO (Roadside)
	RP (Re-Planting)
	RR (Road Rehab)
Method	CTAIN (Container)
	UNDER (Planting trees beneath fire killed overstory)
	WHIPS (Whips)
Species	See RESULTS species code list
Number Planted	
Number Beyond Transfer Limit	
Lot	Seedlot must exist in the <u>Seed Planning and Registry (SPAR)</u>
	database and must match the species.
Request ID	Mandatory for all Government Funded programs.
	*Note: the Request ID can only be supplied in RESULTS online
	as field is not part of the ESF schema. When entering the
	Request Key online, the Species and Lot fields are automatically populated
CBST Indicator	A "Yes" or "No" indicator.
	Set to "Yes" if a seedlot-veglot is planted in an allowable
	Climate Based Seed Transfer (CBST) area of use as identified in
	the "CBST Areas of Use for British Columbia" document
	located at the Chief Forester's Standards for Seed Use website at
	https://www2.gov.bc.ca/gov/content/industry/forestry/managing-

Field	Details
	our-forest-resources/tree-seed/legislation-standards/chief-forester-s-standards-for-seed-use Note: the CBST indicator field is not part of ESF schema. CBST will default to "No" for ESF submissions and can be updated to "Yes" online in RESULTS.
Spatial	Activity spatial is mandatory for all PL activities completed under all funding sources. *Roads and landings are not mapped, only the outer boundaries are to be submitted

Planting on pre-existing mature or juvenile stands impacted by wildfire or insects where there is no overstorey removal or removal of debris must use UNDER method code to report the activity.

10. FOREST COVER AND MAP SUBMISSION

Forest cover updates are required with all government funded programs where a treatment and/or activity results in a change in forest cover attributes. The only exception is if the understory is modified but the overstory as reported in the most recent inventory is unchanged.

All forest cover updates must be submitted via ESF and must include both GML and XML data files (spatial and attributes) for the entire opening.

When reporting new activities on an existing opening where forest cover updates are mandatory, forest cover must be reported for the <u>entire opening</u> even if the treatment or survey only covers a portion of the opening. All untreated polygons must accompany the forest cover update since it is a complete delete and replace.

10.1 POLYGON COMPONENT DATA REQUIREMENTS

Polygon component fields in Table 9 are required with forest cover submissions. For reserve polygons where the forest cover has not changed since the last inventory, only the attributes and spatial shown in Table 9 are submitted.

Table 9. Forest Cover Data Requirements: Even-Aged and Multi-Layer Stands. Polygon Component.

Field	Details
SU label	Required only for IMM, MAT or NSR polygons that are located within an SU.
Polygon ID	Required
Gross Area	Area of the polygon.
Reference year	Year of survey.
Reserve Type	Group (G), Dispersed (D). Required if reserves (long-term or short-term) exist within the polygon.
Reserve Objective	BIO (Biodiversity), WTR (Wildlife Tree Retention), CHR (Cultural Heritage Resource), TIM (Timber Management), VIS (Visual), etc. For complete list of valid codes and associated descriptions please refer to the code tables in the RESULTS technical specification.
Site Index	Required

Site Index Source	Select appropriate code.
Stocking status	Select appropriate code.
Stocking type	Select appropriate code.
Spatial location of each forest cover polygon (GML)	Load through ESF.
Non-mapped area	Conditional - Include areas (ha) that should be taken out of the productive forest area (NAR) but are too small to map (< 0.1ha) but should be accounted for as well as roads and landings if they are not mapped. Consists of four components: ID, area, stocking status and stocking type.

10.2 EVEN-AGED STANDS DATA REQUIREMENTS

Inventory component data is required for all even-aged stands except reserves (Table 10). Silviculture component data (Table 11) is required for even-aged stands when differences exist between inventory and silviculture forest cover. Even-aged inventory and silviculture component data may be combined into the inventory component if no significant differences exist between species composition in the silviculture (crop trees) and inventory (all trees) components; that is, if the stand inventory consists almost entirely of preferred and acceptable crop trees.

Table 10. Forest Cover Data Requirements: Even-Aged Stands Except Reserves. Inventory Component.

Field	Details
Layer Component	Component = I. Inventory component.
Crown Closure	The percentage of ground area covered by the vertically projected crowns of the tree cover for each inventory component tree layer within the polygon. Required if tree species are entered.
Basal Area	 Average cross-sectional residual basal area (m²) per hectare of all stems ≥ 12.5 cm diameter at breast height (dbh: 1.3 m). Required if BA is part of stocking requirements Required for commercial thinning or intermediate cuts where BA is used to assess post-harvest stocking requirements Required where the BA of dispersed stems is > 5 m² per hectare Not required for even-aged stands, except if prescribed as an even-aged partial or intermediate cut
Total Stems/ha	Total number of live stems per hectare within the forest cover polygon, excluding germinants. Required if tree species are entered
Species	Code representing the tree species (primary, secondary, tertiary) within the polygon.
Species %	Estimate of given inventory component tree species percentage within the polygon. The sum of all species in the inventory component must equal 100. Each species should be rounded to the nearest 1%. Required if species are entered in the inventory component
Average Species Age	The reported age is an average of the inventory sample ages of the species. Regeneration delay surveys: Required for the leading species. Free growing surveys: Required for the leading and secondary species.
Average Species Height	The reported height is an average of the inventory sample heights of the species.

Field	Details
	Height is expressed in metres to 1 decimal place. E.g., 4.1 m
	Regeneration delay surveys: Required for the leading species.
	Free growing surveys: Required for the leading and secondary
	species
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 11. Forest Cover Data Requirements: Even-Aged Stands Except Reserves. Silviculture Component.

Field	Details
Layer Component	Component = S. Silviculture component.
Total Well Spaced Stems/ha	Total number of well-spaced stems per hectare. Stem density for silviculture layer disregarding the M-value. Trees are preferred or acceptable species, and well-spaced using the minimum inter-tree distance in the stocking standards (as defined by the Standards ID). Required for all polygons within an SU
Well Spaced Stems/ha	Number of well-spaced stems per hectare. Stem density for silviculture layer using the M-value. Trees are preferred or acceptable species, and well-spaced using the minimum inter-tree distance in the stocking standards (as defined by the Standards ID). Required for all polygons within an SU
Free Growing Stems/ha	Number of free-growing stems per hectare. Free-growing stem density for the silviculture layer (based on the M-value). Free-growing trees are healthy, preferred, or acceptable species, well-spaced, free from inhibiting brush, and meet or exceed the required minimum height (if applicable). Greater than or equal to the minimum stocking standard if SU is declared free-growing. Required for all polygons within an SU
Species	Code representing the tree species
Species %	Must total 100% for all species.
Average Species Age	The reported age is an average of the silviculture sample ages of the species
Average Species Height	The reported height is an average of the silviculture sample heights of the species. It is required for the leading silviculture species; it is optional for all other silviculture species.

10.3 MULTI-LAYER STANDS DATA REQUIREMENTS

These specifications apply to forest stands that have more than one layer. Four layers are recognized (Table 12): mature, pole, sapling and regeneration. Please refer to Table 10 and Table 11 above for multi-layer stands data requirement.

Table 12. Forest Cover

Layer	Description	Details
1	Mature Layer – uneven-aged	Uneven-aged stand with trees ≥ 12.5 cm dbh – based on all commercial 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.

Inventory component data is mandatory for multi-layer stands. When reporting uneven-aged inventory and silviculture component, data may be combined into the inventory component report if no significant differences exist between species composition in the silviculture (crop trees) and inventory (all trees) components; that is, if the stand inventory consists almost entirely of preferred and acceptable crop trees.

For reserves, follow procedures for <u>Submitting Forest Cover to RESULTS for Openings with</u> *Treed Retention*.

General information on multi-layer stands is in the <u>RISS-ls</u> or the <u>Silvicultural Systems</u> Handbook for British Columbia website.

10.4 ROADS

Permanent and temporary access structure (and other temporary structures such as landings) should be reported as non-mapped areas:

- 1) Permanent Access Structure: as (NP-RD)
- 2) Temporary Access Structures; as (NP-UNN)

*Note: the stocking status of the temporary access structure may change from unproductive (NP-UNN) to NSR or IMM through the lifecycle of the opening as the road becomes rehabilitated and trees re-established.

11. DECLARATION SUBMISSION

Declarations for openings subject to government funded treatments or surveys are the same as for licence holders. Follow procedures for submitting declarations according to the RISS-ls.

If an area is declared stocked or free growing but does not meet the stocking standards in the given SSID because a decision was made that further treatment will not be done, a comment is added to the declaration stating that no further treatments are planned.

Fields in Table 13 are required with declaration submissions. Declaration fields not listed in the table are optional. Forest cover and spatial submissions must accompany declaration submissions. Submit completed declarations online in RESULTS or through the ESF. Forest

cover updates are submitted through the ESF. Attachments of supporting documentation are submitted online in RESULTS.

Table 13. Declaration Data Requirements

Field	Details
SU	Standards Unit ID to which the declaration relates.
Declaration type	Enter appropriate code:
	RG = Regeneration
	FG = Free Growing
Declared date	YYYY-MM-DD (not necessarily the same as submission date)
Comment	Include the name of the Registered Professional Forester who supervised the
	professional field assessments that support the declaration. Add comments as necessary
	to explain the declaration or to satisfy contractual requirements.

12. GUIDANCE FOR MANAGING LARGE DISTURBANCE AREAS (WILDFIRE & PEST)

Wildfire and pest disturbances on Crown land are considered for treatment under FIP. These types of disturbances can impact large areas that have potential for treatment, however, not all portions of the area will be suitable for treatment.

Treatable areas and areas not suitable for treatment that have been surveyed are reported **separately** to RESULTS. Areas that will be treated with FIP funded silviculture activities must be reported to RESULTS in manageable sized openings under **200 ha** in size.

12.1 LARGE DISTURBANCE AREAS NOT SUITABLE FOR TREATMENT

"Suitability" will be defined through surveys and in discussions with local Ministry Designated Representatives and may include operability, impact of disturbance, sufficient return-on-investment, as well as other silviculture funding criteria.

Non-tenured openings created for areas determined to not be suitable for treatment can cover a large area that is not contiguous. Opening Spatial and Forest Cover are **NOT** provided. Activity spatial is required for all completed activities. These openings allow for the tracking of areas considered for treatment and avoid having an area assessed multiple times.

Table 14. Data Requirements for Large Disturbance Areas Reviewed but NOT Suitable for Treatment

Field	Details
Opening Definition	Create new non-tenured opening. New Opening will create Opening ID that
(non-tenured openings only)	will be used as the key for reporting by ESF.
Opening Category	NREQ
Opening ID	Automatically generated by RESULTS upon creation of opening
Opening Gross Area	0.1 ha (do not use total area surveyed)
Approval Date	Use the date of the wildfire disturbance
Spatial	DO NOT submit any opening spatial
Stocking Standards Data Requirements	Not required
Disturbance Reporting	Not required

Field	Details
Completed Survey	
Base	SU
Technique	RE (Reconnaissance)
-	RG (Regen/Stocking)
	RA (Regen Performance Assessment)
	FG (Free Growing)
	Or other appropriate code relevant to program requirement
Method	PLOT
	WALK
	FILE
	Or other appropriate code relevant to program requirement.
Completion Date	YYYY-MM-DD (date of survey completion)
Funding Source	FIP
Cost	Not required
Net Area Treated	Total area surveyed and is not suitable for treatment
Inter-agency No.	See Section 6.2.2
Activity Spatial	Mandatory *Roads and landings are not mapped, only the outer
	boundaries are to be submitted
Comments or Attachments	Attach details regarding survey
	If the surveyed area deemed not suitable, please add a comment to the
	activity indicating "Not suitable for Treatment" and any details pertaining the
	decision.
Forest Cover Submission	DO NOT provide Forest Cover

12.2 LARGE DISTURBANCE AREAS SUITABLE FOR TREATMENT

Areas within large disturbances that are considered suitable for treatment are reported to RESULTS in manageable size openings that should be under 200 ha. If an area that will be treated is larger than 200 ha, it is recommended that the area be divided into separate openings that follow ecological units or natural landforms. This is recommended to ensure the integrity of the forest cover throughout the lifecycle of the opening.

Table 15. Data Requirements for Large Disturbance Areas Suitable for Treatment

Field	Details	
Opening Definition	Create new non-tenured opening and report using Section 6.4.2.1, Table 1,	
(non-tenured openings only)	Section 7, Section 9, and Section 10 with changes below.	
Opening Category	NDFS	
Opening Gross Area	The gross area that will be treated	
Approval Date	Use the date of the wildfire disturbance	
Spatial	Submit opening definition spatial	
Stocking Standards Data	Required	
Requirements		
Disturbance Reporting	DN B for wildfire	
DN P for pest disturbance		
Completed Treatments		
Base	For complete list of valid codes and associated descriptions please refer to	
Technique	the code tables in the <u>Forest Investment Program RESULTS Codes</u> .	
Method		
Completion Date	YYYY-MM-DD (date of survey or treatment completion)	
Funding Source	FIP	
Cost	Not required	

Field	Details	
Net Area Treated	Total area treated	
Inter-agency No.	See Section 6.2.2	
Activity Spatial	Mandatory for all programs unless otherwise specified. *Roads and	
	landings are not mapped, only the outer boundaries are to be submitted	
Comments or Attachments	Attach details regarding completed treatment	
Planned Activities	Include all planned activities to FG, using the funding source code FIP. Required for all openings planted with FIP funded seedlings.	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer	
	boundaries are to be submitted	
Forest Cover Submission	Forest Cover updates, both spatial and attribute, are mandatory for	
	completed field-based activities including surveys. *Roads and landings	
	are not mapped, only the outer boundaries are to be submitted	

13. FERTILIZATION FOR STAND ENHANCEMENT

The Forest Investment Program (FIP) funds fertilization of stands with good growth potential, to supplement anticipated timber supply shortfalls in some timber supply areas and increase growth rates and sequester atmospheric carbon at an improved rate. These treatments are mapped and tracked to monitor the investments.

13.1 REPORTING TO NON-TENURED OPENINGS

All FIP funded fertilization treatments (except time-of-planting fertilization) are reported to non-tenured openings and may overlap existing openings in RESULTS. Reporting by a non-tenured opening for fertilization allows for complete coverage of the entire assessed, treated, and planned area in one record. Fertilization treatment may be reported as a multi-part polygon but should fit within a resolution unit such as drainage or landscape unit so that the areas can be reviewed using existing FOR map viewing tools (e.g. Mapview or iMap). A non-tenured opening must not be in more than one TSA.

<u>Please note that when reporting fertilization activities using a non-tenured opening, the opening gross area supplied is always 0.1 ha and opening spatial must NOT be submitted.</u>

*Note: in order to avoid creating orphan records, when reporting previously planned activities, please ensure the planned records and associated attributes are updated to complete. If submitting new record, delete pre-existing associated planned record.

13.2 FERTILIZATION ACTIVITY DATA REQUIREMENTS

Fields in Table 16 are required with fertilization treatment activity submissions to RESULTS. Fertilization at time of planting such as tablets and gro-max bags, is submitted as a fertilization activity in RESULTS.

Table 16. Fertilization Data Requirements

Field	Details	
Opening Definition (Non-	New Opening will create Opening ID that will be used as the key for	
Tenured Opening Only)	reporting online by ESF.	
Mapsheet Number		
Opening ID	Automatically generated by RESULTS upon submission.	
Opening Category	NREQ	
Opening Gross Area	Opening gross area must be set to 0.1 ha to be used for fertilization activities and do NOT supply opening spatial.	
Approval Date	Fertilization application date or date or pre-treatment assessment (YYYY-MM-DD)	
Opening Status	IDIR Users: Set to 'FG' BCeID Users: Set to 'APP' and contact district RESULTS Coordinator with request to reset Opening Status to 'FG'.	
Survey Activity (pre-treatment)	Fertilizer Pre-treatment Assessment with map	
Base	SU (Survey)	
Technique	FE (Fertilization)	
Method	PHOTO (Air Photo Interpretation) PLOT (Plots) WALK (Walkthrough) HELI (Helicopter)	
Objective	FE (Fertilization)	
Funding Source	FIP	
Completion Date	YYYY-MM-DD	
Area Treated	Total surveyed area reviewed for fertilization treatment.	
Actual Cost	Not required	
Inter-agency No	See Section 6.2.2	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Comments or Attachments	Attach details regarding survey assessments	
Planned Treatment Activity	Immediate or Future Planned Fertilization Treatment (enter fertilization treatment if treatment is expected to be done within three years and a stand management prescription exists). If stands are suitable for fertilization but treatment will occur after three years, then indicate a follow-up survey for fertilization. Re-treatments do not need to be planned for as these areas will be based on areas previously treated.	
Base	FE (Fertilization)	
Technique	CA (Chemical Air) or CG (Chemical Ground)	
Method	HELI (Helicopter) BPACK (Backpack Application) GRANU (granular application) TABLT (Fertilizer Tablet) BAGS (Gro-Max Bags)	
Objective	FE (Fertilization)	
Funding Source	FIP	
Planned Date	YYYY-MM-DD	
I failled Date	Total planned eligible fertilization treatable area(s).	
Planned Area	Total planned eligible fertilization treatable area(s).	
Planned Area Planned Cost	Not required.	
Planned Area		

Field	Details	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer	
	boundaries are to be submitted	
Comments or Attachments	Attach details regarding future fertilization	
Completed		
Treatment Activity	Completed Fertilizer Treatment	
Base	FE (Fertilization)	
Technique	CA (Chemical Air)	
	CG (Chemical Ground)	
Method	HELI (Helicopter)	
	BPACK (Backpack)	
	GRANU (Granular Application)	
	TABLT (Fertilizer Tablet)	
	BAGS (Gro-Max Bags)	
Funding Source	FIP	
Completion Date	YYYY-MM-DD	
Area Treated	Total fertilization coverage area in hectares.	
Treatment Cost	Not required	
Inter Agency No	See Section 6.2.2	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer	
7 1	boundaries are to be submitted	
Comments or Attachments	Attach treatment details	
Survey Activity	Fertilizer Post-treatment Assessment	
(post-treatment)		
Base	SU (Survey) or AU (Audit) – as appropriate	
Technique	FE (Fertilization)	
Method	PLOT	
	PHOTO (Air Photo Interpretation)	
	WALK (Walkthrough)	
	HELI (Helicopter)	
Objective	FE (Fertilization)	
Funding Source	FIP	
Completion Date	YYYY-MM-DD	
Area Treated	Total surveyed area monitored for fertilization treatment	
Treatment Cost	Not required	
Inter-agency No	See Section 6.2.2	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer	
J 1	boundaries are to be submitted	
Comments or Attachments	Attach details regarding survey assessments	
Standards Unit		
n/a	Not required. 'NREQ' opening category removes requirement for SU information.	
Forest Cover		

14. JUVENILE SPACING

All aspects of a juvenile spacing program from initial pre-treatment project area assessments to the treatment records, and post-treatment monitoring, are submitted to RESULTS. Submissions include required information listed in Table 17. All opening submissions for juvenile spacing activities must have sufficient information to describe the treatment event and to determine impacts on higher level plans, silviculture, forest cover/land status, land use decisions and other local issues that may be impacted by those activities. Figure 1 shows the workflow associated with juvenile spacing activities.

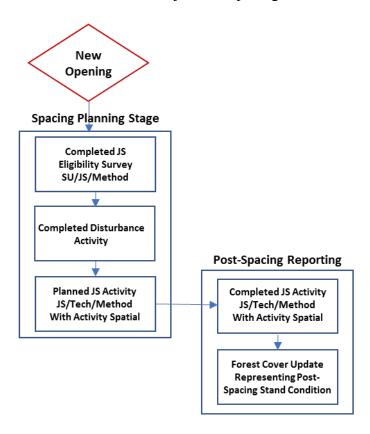


Figure 1. Juvenile Spacing Treatment Workflow

14.1 REPORTING BY NON-TENURED OPENINGS

Juvenile spacing activities are reported as non-tenured openings on free growing (non-obligation) areas. Using non-tenured openings allows for reporting of an entire surveyed, planned and treated area in one single opening. Please note that when using a non-tenured opening for juvenile spacing, opening spatial is mandatory.

14.2 JUVENILE SPACING ACTIVITY DATA REQUIREMENTS

Fields in Table 17 are required with juvenile spacing treatment activity submissions to RESULTS. Sections 10.2 and 10.3 outline data requirements for forest cover submissions for both even-aged and multi-layer stands.

Table 17. Juvenile Spacing Data Requirements

Field	Details		
Opening Definition	New Opening initiated online will generate an Opening ID that will be used as the		
(shell openings only)	key for ESF reporting.		
Mapsheet Number			
Opening ID	Automatically generated by RESULTS upon submission.		
Opening Category	NREQ		
Opening Gross Area	Must equal treatment area		
Approval Date	Date of initial spacing eligibility survey (YYYY-MM-DD)		
Opening Status	IDIR Users: Set to 'FG'		
	BCeID Users: Set to 'APP' and contact district RESULTS Coordinator with		
	request to reset Opening Status to 'FG'.		
Spatial	Spatial data representing treatment area. *Roads and landings are not mapped,		
	only the outer boundaries are to be submitted		
Disturbance Activity	Mandatory to allow Forest Cover updates		
Silviculture System	Leave Blank		
Silviculture Variant	Leave Blank		
Silviculture Cut Phase	Leave Blank		
Disturbance Code	E (Stand Enhancement)		
Disturbance Start Date	Set to date of eligibility survey		
Disturbance End Date	YYYY-MM-DD		
Disturbance Area	Always use 0.1 ha		
	-		
Eligibility Survey	Juvenile Spacing Eligibility Survey		
Activity			
(pre-treatment)			
Base	SU (Survey)		
Technique	JS (Juvenile Spacing)		
Method	PHOTO (Air Photo Interpretation)		
	PLOT (Plots)		
	WALK (Walkthrough)		
	HELI (Helicopter)		
Objective	JS (Juvenile Spacing)		
Funding Source	FIP		
Completion Date	YYYY-MM-DD		
Area Treated	Total surveyed area reviewed for juvenile spacing treatment		
Treatment Cost	Not required		
Inter-agency No	See Section 6.2.2		
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer boundaries		
(GML)	are to be submitted		
Comments or	Attach details regarding survey assessment or treatment plan		
Attachments			
Forest Cover			
Conditional	Forest Cover updates are required for all ground surveys unless (a) no treatment is		
	recommended or (b) there is a current (within the last 5 years) FG survey forest		
	cover inventory label in RESULTS that still best describes the stand attributes.		
Planned	Immediate or Future Planned Juvenile Spacing Treatment or additional		
Treatment Activity	treatment as identified in the stand management prescription (e.g. pruning). If		
	stands are suitable for Juvenile Spacing but treatment will occur after more		
	than three years, then indicate a follow-up survey for spacing.		
Base	JS (Juvenile Spacing)		
Technique	MA (Manual)		

Details	
MANCT (Manual Cutting)	
POWER (Power Saw)	
JS (Juvenile Spacing)	
FIP	
YYYY-MM-DD	
Total planned eligible juvenile spacing treatable area(s)	
Not required	
Set status to 'Planned'. (Note: Some ESF submission software has an 'Actual	
Date Indicator' instead of an Activity Status indicator. In this case, for activity	
completion data, set Actual Date Indicator to 'no'.)	
Not required for planned activities	
Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Completed Juvenile Spacing Treatment	
JS (Juvenile Spacing)	
MA (Manual)	
MANCT (Manual Cutting)	
POWER (Power Saw, Brush Saw)	
JS (Juvenile Spacing)	
FIP	
YYYY-MM-DD	
Total spaced area in hectares	
Not Required	
See Section 6.2.2	
Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Must attach treatment prescription	
The state of the s	
Mandatory.	
SU (Survey) or AU (Audit) – as appropriate	
JS (Juvenile Spacing)	
PHOTO (Air Photo Interpretation)	
PLOT (Plots)	
WALK (Walkthrough)	
HELI (Helicopter)	
JS (Juvenile Spacing)	
FIP	
YYYY-MM-DD	
Total surveyed area monitored for juvenile spacing treatment	
Not Required	
See Section 6.2.2	
Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Attach details regarding survey assessments	
Timeli demin regarding our rey descessions	
Not required	

15. ROAD REHABILITATION

All road rehabilitation completed under the FIP must be reported to RESULTS. This includes all planting of seedlings or direct seeding of roads.

Field	Details	
Opening Definition (non-tenured openings only)	Create new non-tenured opening and report using Section 6.4.2.1, Tall, Section 7, Section 9, and Section 10 with changes below. One openican include multiple sections of roads that are being rehabilitated and may be non-contiguous but must be within the same TSA.	
Opening Category	CONT	
Opening Gross Area	The gross area that will be treated	
Approval Date	Use the date of the initial survey	
Spatial	Submit opening definition spatial. Spatial must be a polygon.	
Stocking Standards Data Requirements	Required. If targeted stocking is outlined in the rehabilitation plan, the standard can be entered manually in RESULTS as an Amendment requiring District approval. If standards are not defined, use the default SSID under Resource Practices Branch (HFP) for the appropriate biogeoclimatic subzone and site series. Spatial is required.	
Disturbance Reporting	Enter a DN "R" (Rehabilitation) with a disturbance area of 0.1 ha . Use the initial survey date as the disturbance date. Do NOT include spatial.	
Completed Treatments		
Base	For complete list of valid codes and associated descriptions please refer to	
Technique	the code tables in the <u>Forest Investment Program RESULTS Codes</u> .	
Method		
Completion Date	YYYY-MM-DD (date of survey or treatment completion)	
Funding Source	FIP or other program funding source codes as necessary. Please refer to the code tables on <u>RESULTS online technical specification</u> .	
Cost	Not required	
Net Area Treated	Total area treated	
Inter-agency No.	See Section 6.2.2	
Activity Spatial	Mandatory.	
Comments or Attachments	Attach details regarding completed treatment	
Planned Activities	Include all planned activities to FG, using the funding source code FIP. Required for all openings planted with FIP funded seedlings.	
Activity Spatial	Mandatory.	
Forest Cover Submission	Forest Cover updates, both spatial and attribute, are mandatory for completed field-based activities including surveys.	
Comments or Attachments	Information regarding the rehabilitation should be attached to the RESULTS opening for future reference. This includes rehabilitation plans, planting reports, completed surveys and maps of treated areas.	

16. RESIDUAL FIBRE AND BURNING AVOIDANCE

The Chief Forester expects that projects funded by the provincial government will seek every opportunity to utilize residual fibre associated with the forest activity to avoid unnecessary emissions from slash burning. Tracking of burning and residual fibre utilizations is necessary to support calculations of carbon offsets. These activities should be reported in the same RESULTS opening as the other activities associated with the FIP project.

Table 18. Completed Fibre Utilization Activities

Field	Details
Mapsheet & Opening No, Opening ID,	Must use one of the mandatory keys used for RESULTS ESF
Timber Mark/Cut Block;	Submission
Licence/CP/Cut Block	
Base	SP
Technique	ME
Method	CHAUL (chip and hauling from site)
	BURY (bury surface fuels)
	CSCAT (chip and scatter)
	MULCH (mulching)
Activity Completion Date	YYYY-MM-DD
Funding Source	FIP
Treatment Cost	Not required
Net Area Treated	Area treated, in hectares
Inter-agency No.	See Section 6.2.2
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer
· -	boundaries are to be submitted
Forest Cover	Not required

Table 19. Completed Burning Activities

Field	Details
Mapsheet & Opening No, Opening ID,	Must use one of the mandatory keys used for RESULTS ESF
Timber Mark/Cut Block;	Submission
Licence/CP/Cut Block	
Base	SP
Technique	BU
Method	PBURN (pile and burn)
	BROAD (broadcast burn)
Activity Completion Date	YYYY-MM-DD
Funding Source	FIP
Treatment Cost	Not required
Net Area Treated	Area treated, in hectares
Inter-agency No.	See Section 6.2.2
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer
• •	boundaries are to be submitted
Forest Cover	Not required

17. AERIAL APPLICATION FOR INSECT DEFOLIATORS

Insect defoliators can impact multiple forest values. The Ministry conducts operational treatments to decrease damage to host trees, reduce populations of insects harmful to human and animal health and to protect tree growth and survival for timber, wildlife and carbon values.

Provide the target insect damage agent code in the licensee activity id. List of damage agent codes is available in the <u>technical specification code tables</u>.

Fields in Table 20 are required for aerial defoliator treatment activity submissions to RESULTS.

Table 20. Aerial Defoliator Data Requirements

Field	Details	
Opening Definition (Non-	New Opening will create Opening ID that will be used as the key for	
tenured openings only)	reporting online by ESF.	
Mapsheet Number		
Opening ID	Automatically generated by RESULTS upon submission.	
Opening Category	NREQ	
Opening Gross Area	Opening gross area must be set to 0.1 ha to be used for aerial defoliator activities and do NOT supply opening spatial .	
Approval Date	Application date (YYYY-MM-DD)	
Opening Status	IDIR Users: Set to 'FG'	
	BCeID Users: Set to 'APP' and contact district RESULTS Coordinator with request to reset Opening Status to 'FG'.	
Completed		
Treatment Activity	Completed Aerial Defoliator Treatment	
Base	PC (Pest Control)	
Technique	CA (chemical Air)	
Method	FIXED (Fixed Wing) or	
	HELI (Helicopter)	
Activity Objectives	Mandatory. ID (defoliator) must be included as the primary objective. Other objectives can be used if needed as secondary and tertiary objectives.	
Licensee Activity ID	Mandatory. Use Damage Agent code for target defoliator species.	
•	Example: IDW-Western Spruce Budworm, IDL – Western Hemlock Looper,	
	IDT – Douglas-fir Tussock Moth,	
Funding Source	FIP	
Completion Date	YYYY-MM-DD	
Area Treated	Total coverage area in hectares.	
Treatment Cost	Not required	
Inter Agency No	See Section 6.2.2	
Activity Spatial	Mandatory	
Forest Cover	Not required	

18. 2 BILLION TREE PROGRAM FUNDED DIRECTLY BY FEDERAL GOVERNMENT

Individuals, First Nations and agencies can apply directly to the Federal Government for 2 Billion Tree projects and they identify candidate sites with proper consultations, acquire authorization, make all preparations such as procuring seed and seedlings, and establish site plans. Candidate stands on Crown Land must be referred to FOR staff to ensure that there is no potential for conflicts or overlap with existing plans.

RESULTS reporting is mandatory for all 2 Billion Tree project activities completed on Crown Land. Reporting is completed based on the reporting requirements below.

Table 21. External 2 Billion Tree Data Requirements

Field	Details	
Opening Definition	Create new non-tenured opening and report using Section 6.4.2.1, Table 1,	
(non-tenured openings only)	Section 7, Section 8, Section 9, and Section 10 with changes below.	
Opening Category	CONT	
Opening Gross Area	The gross area that will be treated	
Approval Date	Date of initial treatment	
Spatial	Submit opening definition spatial	
Stocking Standards	Required. Use Ministry default stocking standards for the appropriate Biogeoclimatic zone, subzone and site series. See Section 8 for stocking standard data requirements.	
Disturbance Reporting	DN B for wildfire DN P for pest disturbance DN E if no disturbance occurred (required for forest cover submissions) Or other codes as applicable. See Section 9.1 for disturbance data requirements	
Completed Treatments		
Base	For complete list of valid codes and associated descriptions please refer to	
Technique	the code tables in the Forest Investment Program RESULTS Codes.	
Method	See Section 9.2 – Section 9.4 for survey and treatment data requirements	
Completion Date	YYYY-MM-DD (date of survey or treatment completion)	
Activity Objectives	Mandatory. 2BT must be included as the primary objective	
Funding Source	FED	
Cost	Not required	
Net Area Treated	Total area treated	
Inter-agency No.	Not required	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Comments or Attachments		
Planned Activities	Include planned activities to monitor the stand to free-growing (FG), using the funding source code FED based on the schedule in Table 22 below. Required for all openings planted with federally funded 2 Billion Tree Program seedlings.	
Activity Spatial	Mandatory. *Roads and landings are not mapped, only the outer boundaries are to be submitted	
Forest Cover Submission	Forest Cover updates, both spatial and attribute, are mandatory for completed field-based activities including planting and surveys. *Roads and landings are not mapped, only the outer boundaries are to be submitted. See Section 10 for forest cover data requirements.	

Table 22. 2BT Planned Activity Schedule

Activity Type	RESULTS Base/Tech/Method	Years Post- Planting
Regen Survey	SU RG PLOT	2
Regen Assessment Survey	SU RA PLOT	6
Free-Growing Survey	SU FG PLOT	12

19. DATA DISCREPANCIES

When data inconsistencies are found, forest professionals should contact the custodians of the data (e.g. licensees and/or district office for licensee-responsibility openings; district office for government-responsibility openings) to report their findings, so that the custodians may check and correct the data if required.

20. QUALITY ASSURANCE MONITORING

Submissions made to RESULTS under FIP and the Federal 2 Billion Tree Program are subject to data quality assurance monitoring. All submissions must be consistent with this guide and all submitters are responsible for any required updates identified by the quality assurance process.