

# **PROPOSED SURVEY CHANGES**



# TODAY'S UPDATES

- Proposed changes apply strictly to the standard CC/even-aged surveys
  - Regeneration
  - Stocking
  - Free Growing
- Does **not** apply to Alternative Survey Methodologies, unless noted otherwise
  - Layered
  - DFP/SEDRSS
  - Mixedwood
  - Multi-storied

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Silviculture Survey .....

May 1, 2020

|       |                                                                                                         |     |
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# TIMELINE

- Training sessions through February and March 2022
- FS660, survey manual, plot cards, and RISS will be updated for March 2022
- Encouraging adoption of new methodologies for April 1<sup>st</sup>, 2022
  - In-house surveys
  - Surveys not yet under contract
  - Surveys under contract that can be amended
- Requiring adoption of new methodologies for April 1<sup>st</sup>, 2023
  - To be followed up with audits

# INVENTORY SPECIES COMPOSITION

| Current                                                                                              | Proposed                                                                                                        | Rationale                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mathematically average and manually adjust <b>ocular estimates</b> to determine species composition. | Determine inventory species composition based <b>on tree counts by species</b> for plot-based sampling methods. | <ul style="list-style-type: none"><li>• New TSR process requires higher precision on inventory species composition</li><li>• This will help eliminate overestimations of minor species and underestimations of smaller trees that may be visually obscured by larger trees.</li></ul> |

OCF Senior Biometrician: *“Plot tallies is the best approach. Ocular approaches suffer from observer bias and lack of repeatability.”*

# INVENTORY SPECIES COMPOSITION

| Current                                                         | Proposed                                                        | Rationale                                                                                                                                                       |
|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Roughly average species composition to the <b>nearest 10%</b> . | Record inventory species composition to the <b>nearest 1%</b> . | <ul style="list-style-type: none"><li>• New TSR process requires higher precision on inventory species composition</li><li>• Eliminates rounding step</li></ul> |
| Ex. Hw50Fdc40Cw10                                               | Ex. Hw55Fdc37Cw8<br><br>Note: Applies to all survey types.      |                                                                                                                                                                 |

FAIB: *“Need improved accuracy for the inventory data elements”*

# INVENTORY TREE COUNTS

| Current                                                                                                                                                                                                 | Proposed                                                                                                                                                                                               | Rationale                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Trees: Record the total number of live commercial coniferous and broadleaf trees within the plot. All trees, <b>regardless of their height</b> , are to be tallied, <b>including germinants</b> . | Record the total number of live commercial coniferous and broadleaf trees within the plot. All trees are to be tallied, <b>except germinants</b> .<br><br><b>Germinant= 1-year old tree under 10cm</b> | <ul style="list-style-type: none"><li>• Difficult to identify species of germinants</li><li>• Possibly low survival</li><li>• Create survey efficiencies</li><li>• Inconsequential to other program areas</li></ul> |

# INVENTORY TREE COUNTS

| Current                                                                                                                                                                                 | Proposed                                                                                                                                                        | Rationale                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Total Trees: Record the total number of live commercial coniferous and broadleaf trees within the plot. All trees, regardless of their height, are to be tallied, including germinants. | Tree count by species can be <b>estimated if &gt;50 trees (excluding germinants, all species combined)</b> in the 3.99m radius plot.<br><br><b>Precision: ?</b> | <ul style="list-style-type: none"> <li>Logical break point at 10,000sph</li> <li>Minimal impact if accuracy is reduced above 10,000sph</li> </ul> |

NOTE: The surveyor estimates the # of trees by species meeting the minimum height. They do not complete an ocular estimate of species composition.

| Plot: Test   |           |             |                    |             |             |                |             |                  |               |                  |                |                    |                    |                 |                      |          |                          |
|--------------|-----------|-------------|--------------------|-------------|-------------|----------------|-------------|------------------|---------------|------------------|----------------|--------------------|--------------------|-----------------|----------------------|----------|--------------------------|
| Plot Name    | Timestamp |             | Bearing / Dist (m) |             | Total Trees | Total Conifers | Plant spots | Prep spots       | Germinants    | Count Conifers   | Median HL (cm) | Count Ht.          | CC %               | "In" Trees      | GU tallest tree (cm) | GU trees | Partial Plot             |
| Test         | Not Set   |             |                    |             | X           |                |             |                  |               |                  |                | 0                  |                    |                 |                      |          | <input type="checkbox"/> |
| Latitude     | Longitude | UTM North   | UTM East           | Site Index  | Optional    | Comments       |             |                  |               |                  |                |                    |                    |                 |                      |          |                          |
|              |           |             |                    |             |             |                |             |                  |               |                  |                |                    |                    |                 |                      |          |                          |
| Tree Species |           | Total Trees |                    | Well Spaced |             | Free Growing   |             | WS Sample HL (m) | WS Sample Age | FG Sample HL (m) | FG Sample Age  | Leader Height (cm) | Inv. Sample HL (m) | Inv. Sample Age | Inv. Label %         |          |                          |
| Ba           |           | 25          |                    |             |             |                |             |                  |               |                  |                |                    |                    |                 | X                    |          |                          |
| Hw           |           | 55          |                    |             |             |                |             |                  |               |                  |                |                    |                    |                 |                      |          |                          |

# TOTAL CONIFERS/TREES

| Current                                                                                                                                                                                                                                                                                           | Proposed                                                                                                                                                                                                                         | Rationale   |            |             |            |  |  |  |  |                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|------------|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Record</b> the total number of live coniferous and broadleaf trees within the plot, including both acceptable and unacceptable quality trees.</p> <p><b>Record</b> the total number of live coniferous trees within the plot, including both acceptable and unacceptable quality trees.</p> | <p><b>Stop</b> recording total trees and total conifers at each plot.</p> <div><table><tr><td>STRA-TUM</td><td>LAYER</td><td>TOTAL TREES</td><td>TOTAL CON.</td></tr><tr><td></td><td></td><td></td><td></td></tr></table></div> | STRA-TUM    | LAYER      | TOTAL TREES | TOTAL CON. |  |  |  |  | <ul style="list-style-type: none"><li>• Can be calculated with post-processing</li><li>• Does not get reported to RESULTS</li><li>• Create survey efficiencies</li></ul> |
| STRA-TUM                                                                                                                                                                                                                                                                                          | LAYER                                                                                                                                                                                                                            | TOTAL TREES | TOTAL CON. |             |            |  |  |  |  |                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                  |             |            |             |            |  |  |  |  |                                                                                                                                                                          |

# INVENTORY HEIGHTS

| Current                                                                | Proposed                                                                                       | Rationale                                                                                                                                                                                                    |
|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Record inventory heights for the <b>leading and secondary</b> species. | Measure and submit heights for <b>all inventory species</b> .<br><br>Applicable for RG and FG. | <ul style="list-style-type: none"><li>• Significant variation between species</li><li>• Important for G&amp;Y models</li><li>• Important for other program areas (carbon, wildfire, forest health)</li></ul> |

# INVENTORY HEIGHTS

| Current                                                                                     | Proposed                                                                            | Rationale                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measure height to the <b>last completed</b> year's growth during the active growing season. | Measure height to the <b>top</b> of the tree, <b>including any partial growth</b> . | <ul style="list-style-type: none"><li>• Faster</li><li>• Easier for indeterminate species</li><li>• Consistent with survey year in labels</li><li>• Aligned with remote sensing height determinations</li></ul> |

# INVENTORY HEIGHTS

| Current                                                                                                                                                                             | Proposed                                                                                                                                                                                                                           | Rationale                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <p>Select a <b>dominant or co-dominant tree</b> of the leading species or secondary species.</p>  | <p>Select <b>the tallest, healthy, living</b> tree of the species.</p> <p>Healthy = Must meet forest health criteria and advanced regeneration acceptability criteria</p> <p>Note: Excludes seed trees or dispersed retention.</p> | <ul style="list-style-type: none"><li>• Reduce confusion when a leading species does not meet the dom/co-dom definition</li></ul> |

# INVENTORY AGE

| Current                                                                                                                                          | Proposed                                                                                    | Rationale                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Record the number of <u>completed</u> year's growth.</p> <p>The reported age can be described as the number of completed growing periods.</p> | <p>Record the <u>age</u> of the tree. Include the <u>current partial</u> year's growth.</p> | <ul style="list-style-type: none"><li>• Consistent with survey year in labels</li><li>• Aligned with Inventory Height measurement (proposed)</li></ul> |

# INVENTORY AGE

| Current                                                                                              | Proposed                                                                                                                                                                                                                    | Rationale                                                                                                                         |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Select the <b>average dominant and co-dominant tree</b> of the leading species or secondary species. | Select <b>the tallest, healthy, living</b> tree of the species.<br><br>Healthy = Must meet forest health criteria and advanced regeneration acceptability criteria<br><br>Note: Excludes seed trees or dispersed retention. | <ul style="list-style-type: none"><li>• Reduce confusion when a leading species does not meet the dom/co-dom definition</li></ul> |

# SILVICULTURE HEIGHTS

| Current                                                                                                                                                                                                                                                                                                                                                                              | Proposed                                                         | Rationale                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><u>Plot</u>: Select an <b>average</b> well-spaced or free growing tree. Measure and <b>record the total height</b> to the last completed year's growth.</p> <p><u>Reporting</u>: Submit average of well spaced or free growing sample heights.</p> <p>This value is meant to be representative of all preferred and acceptable WSTs or FGTs. It is not specific to a species.</p> | <p><b>Stop</b> collecting and reporting silviculture heights</p> | <ul style="list-style-type: none"><li>• Not used by any program areas</li><li>• May not be reflective of any species</li><li>• Difficult to audit due to variability in WS/FG trees between surveyors</li><li>• Not possible to compare FG heights to minimums for compliance</li><li>• Not possible to predict when a species will hit FG minimum heights or green-up</li></ul> |

# SILVICULTURE AGE

| Current                                                                                                                                                                                                                                                                                                  | Proposed                                                       | Rationale                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Select an <b>average</b> well-spaced or free growing tree. Measure and <b>record the age</b> of the selected representative tree to the last completed year's growth.</p> <p>A single age is submitted to RESULTS. It is meant to be representative of all preferred and acceptable WSTs or FGTs.</p> | <p><b>Stop</b> collecting and reporting silviculture ages.</p> | <ul style="list-style-type: none"><li>• Only used by C&amp;E</li><li>• Not required to measure compliance with stocking standards</li><li>• Prevent destructive sampling</li><li>• May not be reflective of any species</li><li>• Difficult to audit due to variability in WS/FG trees between surveyors</li></ul> |

# SILVICULTURE SITE INDEX

| Current                                                                                                                                                                                     | Proposed                                              | Rationale                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Record</b> the site index of the leading species in the <b>silviculture label</b>.</p> <p>This value may be different than the inventory SI if the leading species are different.</p> | <p><b>Stop</b> recording silviculture site index.</p> | <ul style="list-style-type: none"><li>• Not reported to RESULTS</li><li>• No application</li><li>• Create survey efficiencies</li></ul> |

# SAMPLING METHODS

| Current                                           | Proposed                                                                                                                                                                                                                                                                                                                                            | Rationale                                                                  |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| There are BMPs for the use of Visual Assessments. | <p>For <u>declaration</u> surveys, <b>restrict</b> the use of visual assessments to <u>low risk</u> strata or strata with <u>significant access or safety issues</u>.</p> <p>Must use a surveyor with <u>5+ years</u> of related experience.</p> <p>A form/matrix will be developed for licensees to demonstrate that conditions have been met.</p> | Precision standards are not being consistently met for ocular assessments. |

# MAXIMUM DENSITY

| Current                                                                                                                                                              | Approved?                                                                                                                       | Rationale                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| The number of countable conifers needs to be assessed where the number of total trees per hectare is in excess of the maximum density for the survey standards unit. | Countable conifers do not need to be assessed.<br><br>All stand types exempt from obligation to space prior to FG declarations. | <ul style="list-style-type: none"><li>• If maximum density requirements no longer apply, then countable conifers are not required.</li></ul> |

# COMPARISON- INVENTORY LABEL

## **CURRENT:**

Ac40Fdi30Sx20Bl10-13/12-1.7/1.6-18/M-19-9850(22)

## **PROPOSED:**

Ac44Fdi32Sx19Bl5-14/13-2.0/1.8/1.5/1.3-18/M-19-9500(22)

- No rounding
- Species composition based on tree counts
- Density and species composition excludes germinants
- Heights and age include new growth
- Heights for all species

# INVENTORY LABEL

A

B

C

D

E

F

G

**Ac44Fdi32Sx19B15-14/13-2.0/1.8/1.5/1.3-18/M-19-10800(20)**

- A. Average species composition based on tree counts by species, excluding germinants. No rounding.
- B. Average age by species using FS658, including partial growth. Based on tallest trees.
- C. Average height by species using FS658, including partial growth. Based on tallest trees.
- D. Site index of the leading species in the label and the SI method.
- E. Crown closure by visual observation of aerial photography or ground observation.
- F. Average number of total trees per hectare of commercial species, excluding germinants.
- G. The last 2 digits of the year the survey was conducted.

# COMPARISON- SILVICULTURE LABEL

## **CURRENT:**

FG-Fdi56Sx22B113Cw9-12-2.4-21/E-920(20)

## **PROPOSED:**

FG-Fdi56Sx22B113Cw9-920(20)

- No height
- No age
- No site index

# SILVICULTURE LABEL

A

B

C

D

**FG -Fdi56Sx22B113Cw9- 920 (20)**

- A. Prefix identifies the stocking status (NSR, SR, or FG).
- B. Average species composition based on the well-spaced or free-growing tree counts by species. No rounding.
- C. The average number of well-spaced or free growing trees per hectare.
- D. The last 2 digits of the year the survey was conducted.



BRITISH COLUMBIA

Ministry of Forests, Lands,  
Natural Resource Operations &  
Rural Development

SILVICULTURE  
SURVEY PLOT CARD

**SURVEYOR NAME(S) & REGISTRATION NO(S).**

|        |   |   |   |      |    |
|--------|---|---|---|------|----|
| SURVEY | Y | M | D | PAGE | OF |
| DATE   |   |   |   |      |    |

MAPSHEET - OPENING NO.

LICENCE NO.

CUTTING  
PERMIT

BLOCK

STANDARDS  
UNIT

STRATUM

POINT OF COMMENCEMENT  
(DESCRIPTION OR COORDINATES)

FS 658 2020/5/1 Well spaced/free growing age and height sample data is recorded for the representative well spaced/free growing tree within plots. It is not species specific. Collect approx. 1 per 4 plots, min. 3 per stratum, then mathematically averaged.  
Inventory label data is collected periodically, (approx. 1 per 4 plots, min. 3 per stratum), from visual observations throughout the stratum, then 'roughly averaged' to represent the stratum.

# MOCK-UP PAPER CARD



Ministry of Forests, Lands,  
Natural Resource Operations &  
Rural Development



## SILVICULTURE SURVEY PLOT CARD

SURVEYOR NAME(S) & REGISTRATION NO(S).

Anne Simpson, A201500999

SURVEY  
DATE Y M D

20 03 14

PAGE OF

3 5

MAPSHEET - OPENING NO.

93B023-123

LICENCE NO.

FLA12345

CUTTING  
PERMIT

678

BLOCK

9a

STANDARDS  
UNIT

1

STRATUM

A

| PLOT NO. | STRATUM | DATA TYPE OR LAYER | USER | USER |                                                |     |     |     |     |     |     |     |     |      |      |      | TOTALS | INV SPP #1 AGE | INV SPP #2 AGE | INV CRN CLR | GI SAMPLE FOR INV SPP #1 |         | PLANTABLE | PREPARABLE | NUMBER "IN" | COMPETING VEG. |            |                             | FOREST HEALTH |            |            |   |  |
|----------|---------|--------------------|------|------|------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--------|----------------|----------------|-------------|--------------------------|---------|-----------|------------|-------------|----------------|------------|-----------------------------|---------------|------------|------------|---|--|
|          |         |                    |      |      | Fdi                                            | Sx  | Cw  | Bl  | Pa  | Pw  | Pli | Lw  | At  | Ac   | Ep   | Hw   |        |                |                |             | SPECIES                  | % COVER |           |            |             | HT (m)         | PEST CODE  | TREE SPECIES AND # AFFECTED |               |            |            |   |  |
|          |         |                    |      |      | p                                              | p   | p   | a   | u   | u   | u   | u   | u   | u    | u    | u    |        |                |                |             | AGE @1.3m                | Ht (m)  |           |            |             | LIVE TREES     | DEAD TREES |                             |               |            |            |   |  |
| 1        | A       | T                  |      |      | 1                                              | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11   | 12   | 78     | 10             | 11             | 2           | 2                        | 2.2     | -         | -          | 2           | Ac             | 23         | 2.0                         | DRA           | 1Fdi, 1Pli | -          |   |  |
|          |         | Ht                 |      |      | 1.1                                            | 2.2 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 10.0 | 11.1 | 12.2 | -      | 10.0           | 11.1           | -           | -                        | -       | -         | -          | -           | Rubu par       | 10         | 1.5                         | AD            | 1Fdi       | -          |   |  |
|          |         | W                  |      |      | 1                                              | 2   | 3   | 1   |     |     |     |     |     |      |      |      | M      | -              | -              | -           | -                        | -       | 2         | 2          | -           | Ac             | 23         | 2.0                         | IWW           | 15x        | -          |   |  |
|          |         | F                  |      |      | 1                                              | 1   | 2   | 1   |     |     |     |     |     |      |      |      | 5      | -              | -              | -           | -                        | -       | -         | -          | -           | Sali spp.      | 15         | 2.0                         | DRA           | 1Fdi, 1Pli | 1Fdi       |   |  |
|          |         |                    |      |      | 1 Sx is too short, 1 Cw overtopped by Aspen    |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                | Ac         | 23                          | 2.0           | DRA        | 1Fdi, 1Pli | - |  |
| 2        | A       | T                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | Ht                 |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | W                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | F                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         |                    |      |      | Plot 2-no signs of repression in the conifers. |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
| 3        | A       | T                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | Ht                 |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | W                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         | F                  |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |
|          |         |                    |      |      |                                                |     |     |     |     |     |     |     |     |      |      |      |        |                |                |             |                          |         |           |            |             |                |            |                             |               |            |            |   |  |

Notes:

Plot 1-The well spaced are clustered to one side so there is still one plantable spot.

Plot 5-Willow is being browsed. The remaining well spaced Fdi and Sx will outgrow the minor willow competition in 2 or 3 years.

A brushing treatment is not required. Moose browse on the willow.

# MOCK-UP EXCEL

| PLOT | STRATUM | DATA TYPE/LAYER | TOTALS | Fdi | Sx  | Cw  | Bl  | Pa  | Pw  | Pli | Lw  | At  | Ac   | Ep   | Hw   | CROWN<br>CLOSURE<br>(%) | PLANTABLE | PREPARABLE | NUMBER<br>"IN" | VEG<br>SPECIES | VEG %<br>COVER | VEG<br>HT<br>(M) | FH<br>SPP. | FH<br>PEST<br>CODE | FH<br>LIVE | FH<br>DEAD | GI-AGE<br>@ 1.3M | GI<br>HT<br>(M) |
|------|---------|-----------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-------------------------|-----------|------------|----------------|----------------|----------------|------------------|------------|--------------------|------------|------------|------------------|-----------------|
| 1    | A       | TOTAL           | 78     | 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   | 11   | 12   | 10                      | 1         |            | 1              | RUBU PAR       | 10             | 1.2              | FDI        | DRA                | 1          | 1          | 7                | 2               |
| 1    | A       | WS              | 6      | 1   | 2   | 3   | 1   |     |     |     |     |     |      |      |      |                         |           |            |                | RUBU SPE       | 45             | 1.1              | PLI        | DRA                | 1          |            |                  |                 |
| 1    | A       | FG              | 5      | 1   | 1   | 2   | 1   |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 1    | A       | INV HT (M)      |        | 1   | 2.2 | 3.3 | 4.4 | 5.5 | 6.6 | 7.7 | 8.8 | 9.9 | 10.1 | 11.1 | 12.2 |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 1    | A       | INV AGE         |        | 10  | 10  | 10  | 8   | 8   | 8   | 8   | 8   | 8   | 8    | 8    | 8    |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 1    | A       | SILV HT (M)     |        | 1   | 2.3 | 3.4 | 4.5 | 5.6 | 6.7 | 7.8 | 8.9 | 10  | 10.2 | 11.2 | 12.3 |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 1    | A       | SILV AGE        |        | 10  | 10  | 10  | 8   | 8   | 8   | 8   | 8   | 8   | 8    | 8    | 8    |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 1    | A       | LEADER (CM)     |        | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  | 55   | 60   | 70   |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | TOTAL           | 123    | 8   | 5   | 11  | 3   | 15  |     | 18  | 3   | 21  | 6    | 24   | 9    |                         |           |            |                |                |                |                  | SX         | IWW                | 1          |            |                  |                 |
| 2    | A       | WS              | 6      | 4   | 3   |     | 1   |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  | FDI        | AD                 | 1          |            |                  |                 |
| 2    | A       | FG              | 5      | 3   | 2   |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | INV HT (M)      |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | INV AGE         |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | SILV HT (M)     |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | SILV AGE        |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 2    | A       | LEADER (CM)     |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | TOTAL           | 96     | 6   | 10  | 5   |     |     | 5   |     |     | 50  |      |      | 20   |                         | 1         |            |                |                |                |                  | DRA        | FDI                | 1          | 1          |                  |                 |
| 3    | A       | WS              | 5      | 2   | 2   | 1   |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | FG              | 5      | 2   | 2   | 1   |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | INV HT (M)      |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | INV AGE         |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | SILV HT (M)     |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | SILV AGE        |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 3    | A       | LEADER (CM)     |        |     |     |     |     |     |     |     |     |     |      |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |
| 4    | A       | TOTAL           | 35     | 4   | 4   | 4   |     |     | 8   |     | 10  |     | 5    |      |      |                         |           |            |                |                |                |                  |            |                    |            |            |                  |                 |

|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|------------------------------------------------|--|-------|--|-----------------------------------------------------------------------------------|--|------------------------------------------------------|--|--------------------------------------------------|--|----------------------------------|--|-------------------------------------------------|--|-----|--|--------------------------------------|--|-----|--|------------------------------------------|--|-----------------|--|-------------------------|--|-----|--|---|--|----------|--|---------------------|--|-----------------|--|----------------------------|--|------------|--|-------------|--|------|--|----------------|--|-------------|--|
| MAPSHEET - OPENING NO.                         |  |       |  | LICENCE NO.                                                                       |  |                                                      |  | CUTTING PERMIT                                   |  |                                  |  | BLOCK                                           |  |     |  | STANDARDS UNIT                       |  |     |  | STRATUM                                  |  |                 |  | REPORT DATE             |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| PROJECT IDENTIFICATION                         |  |       |  | LICENSEE                                                                          |  |                                                      |  | PLOT MULTIPLIER (pm)                             |  |                                  |  | TARGET 'M' VALUE (MWF)                          |  |     |  | PLANTING 'M' VALUE (MP)              |  |     |  | STRATUM AREA (ha)                        |  |                 |  | DATA ENTRY DATE         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| BGC ZONE, SUBZONE, VARIANT, SITE SERIES        |  |       |  | TARGET STOCKING STANDARD (TSS) /ha                                                |  |                                                      |  | MINIMUM STOCKING STANDARD (MSS or MSS p + a) /ha |  |                                  |  | MINIMUM PREFERRED STOCKING STANDARD (MSS p) /ha |  |     |  | COMPILED BY                          |  |     |  | DATA ENTRY BY                            |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| NO. PLOTS (n)                                  |  | LAYER |  | TOTAL TREES (T)                                                                   |  | TOTAL CONIFERS (TC)                                  |  | COUNT CONIFERS (CC)                              |  | PREFERRED AND ACCEPTABLE SPECIES |  |                                                 |  |     |  |                                      |  |     |  | PLANTABLE (P)                            |  | PREPARABLE (PR) |  | TOTAL NUMBER "IN" (TNI) |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| SUM OF WS DISREGARDING THE 'M' VALUE (WnoM's)  |  |       |  |                                                                                   |  | =                                                    |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| WELL SPACED SPECIES COMPOSITION                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| SUM OF FG DISREGARDING THE 'M' VALUE (FGnoM's) |  |       |  |                                                                                   |  | =                                                    |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| FREE GROWING SPECIES COMPOSITION               |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| T x pm ÷ n =                                   |  |       |  |                                                                                   |  | TOTAL TREES per ha                                   |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| TC x pm ÷ n =                                  |  |       |  |                                                                                   |  | TOTAL CONIFERS per ha                                |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| CC x pm ÷ n =                                  |  |       |  |                                                                                   |  | COUNTABLE CONIFERS per ha                            |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| WnoM's x pm ÷ n =                              |  |       |  |                                                                                   |  | TOTAL WELL-SPACED per ha (disregarding the M-value)  |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| FGnoM's x pm ÷ n =                             |  |       |  |                                                                                   |  | TOTAL FREE GROWING per ha (disregarding the M-value) |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| [(WM's x MWF) + W] x pm ÷ n =                  |  |       |  |                                                                                   |  | WELL SPACED per ha x SPW =                           |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| [(FGM's x MWF) + FG] x pm ÷ n =                |  |       |  |                                                                                   |  | FREE GROWING per ha x SPFG =                         |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| [CPM's x MP + P] x pm ÷ n =                    |  |       |  |                                                                                   |  | PLANTABLE SPOTS per ha                               |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| TNI ÷ n x BAF =                                |  |       |  |                                                                                   |  | LAYER 1 BASAL AREA per ha                            |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| SURVEY CONFIDENCE LIMITS FOR                   |  |       |  | STANDARD DEVIATION (S)                                                            |  |                                                      |  | STANDARD ERROR OF THE MEAN (Sx̄)                 |  |                                  |  | T VALUE (t.90 )                                 |  |     |  | CONFIDENCE INTERVAL (CI) ± tr per ha |  |     |  | LOWER CONFIDENCE LIMIT (LCL) ± tr per ha |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| <input type="checkbox"/> WELL SPACED           |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| <input type="checkbox"/> FREE GROWING          |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| INVENTORY LABEL                                |  |       |  | SPECIES COMPOSITION 'ROUGHLY AVERAGED' TO NEAREST 10%                             |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| Leading Species                                |  |       |  | %                                                                                 |  | 2 <sup>nd</sup> Spp                                  |  | %                                                |  | Spp                              |  | %                                               |  | Spp |  | %                                    |  | Spp |  | %                                        |  | Spp             |  | %                       |  | Spp |  | % |  | Ldg. Age |  | 2 <sup>nd</sup> Age |  | Ldg. Height (m) |  | 2 <sup>nd</sup> Height (m) |  | Site Index |  | Source Code |  | CC % |  | TOTAL TREES/ha |  | SURVEY YEAR |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| <input type="checkbox"/> NSR                   |  |       |  | SILVICULTURE LABEL                                                                |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| <input type="checkbox"/> SR                    |  |       |  | SPECIES COMPOSITION MATHEMATICALLY AVERAGED TO NEAREST 1% FROM CALCULATIONS ABOVE |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
| <input type="checkbox"/> FG                    |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  |                                                  |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |
|                                                |  |       |  |                                                                                   |  |                                                      |  | </                                               |  |                                  |  |                                                 |  |     |  |                                      |  |     |  |                                          |  |                 |  |                         |  |     |  |   |  |          |  |                     |  |                 |  |                            |  |            |  |             |  |      |  |                |  |             |  |

# REPORTING

# TERMINOLOGY

| Current                                                                                                                                                                                                                                                  | Proposed                                                                                                                                                                                                                                                                                                                                           | Rationale                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Fill planting:</b><br/>Supplementary planting required to augment poorly stocked natural regeneration <b>or</b> to replace seedlings that have died on previously planted sites.</p> <p><b>Replanting:</b><br/>No definition in survey manual.</p> | <p><b>Fill planting:</b> Supplementary planting required to augment poorly stocked natural regeneration. Associated with a <u>natural regeneration regime</u>.</p> <p><b>Replanting:</b> Supplementary planting required to replace seedlings that died on previously planted sites. Associated with an <u>artificial regeneration regime</u>.</p> | <ul style="list-style-type: none"><li>• Inconsistently used.</li><li>• Proposed RISS changes (next slide) only apply to replants.</li></ul> |

**Just a warning-  
This one is coming!**

# REPLANT OBJECTIVE

| Current                                                                                                                   | Proposed                                                                                                                                                                                                                         | Rationale                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Objective codes are <b>optional</b>.</p> <p>Intended to describe the <b>reason</b> for the silviculture treatment.</p> | <p>Objective codes are <b>mandatory for replants</b>.</p> <p>-Intended to describe the <b>cause</b> of the low planting stocking (ie. drought, frost, conifer seedling weevil, elk, etc).</p> <p>-Can submit up to 3 causes.</p> | <ul style="list-style-type: none"><li>• Demonstrate due diligence when amending a stratum into a forest health related variance from normal stocking standards</li><li>• Fulfill needs of the Interior Silviculture Committee Drought Working Group</li></ul> |

# ACTIVITY SPATIAL

**Just a warning-  
This one is coming!**

**Can start transferring now!**

| Current                                                                                                                                                                                                                                                    | Coming soon...                                                                                                                                                        | Rationale                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Licensees: Spatial data are <b>optional</b> for silviculture activity treatment unit.</p> <p>Government funded:<br/>Activity spatial is mandatory for fertilization, juvenile spacing, and planting activities completed under all funding sources.</p> | <p>Activity spatial is <b>mandatory</b> for <b>site preparation, planting, brushing, fertilization, and juvenile spacing</b>.</p> <p>Not applicable for woodlots.</p> | <ul style="list-style-type: none"><li>• Critical change for inventory and G&amp;Y</li><li>• High priority for all program areas (carbon, wildfire, wildlife, forest health)</li><li>• Difficult to project stand development or understand the impacts of a treatment without the spatial info</li><li>• N/A for woodlot due to scope and scale</li></ul> |

# QUESTIONS?

To further discuss or provide feedback, please email  
[taisa.brown@gov.bc.ca](mailto:taisa.brown@gov.bc.ca) or call 250-480-9883