# Tolko Industries Ltd.

# Southern Interior

# Forest Stewardship Plan

## FSP ID# 684

## Amendment #13

***FSP*** **Term: 5 Years (commencing January 30, 2019)**
**Extended to July 30, 2024**
**Extension Request to July 30, 2029**

**Thompson/Okanagan Forest Region**

**Thompson Rivers Forest District – Kamloops *TSA***

**Cascades Forest District – Merritt *TSA***

**Okanagan-Shuswap Forest District – Okanagan *TSA* & TFL 49**

**Selkirk Natural Resource District – Arrow *TSA* & Boundary *TSA***

# Preamble to *FSP*

Tolko Southern Interior Woodlands has prepared this Forest Stewardship Plan (*FSP*) for operations within the Thompson Rivers, Cascades, Okanagan-Shuswap and Selkirk Natural Resource Districts.

The *FSP* defines Forest Development Units (*FDU*'s) within which timber harvesting and *road* construction activities may occur during the 5-year term of the plan. These activities must be conducted consistent with the results, strategies, measures and standards specified in the *FSP,* which in turn must be consistent with the objectives set by *government* for the resource values found within the *FDU*'s of the *FSP*.

This *FSP* is structured to include the following components:

- **Administration and Interpretation (Part 1)** provides definitions of terms used in the *FSP*; links to specific legislation; the overall organization of the *FSP*; provisions for cancellation and exemption; and authorities from *government*.
- **Term (Part 2)** provides details on the date the *FSP* was submitted to *government* for approval; the specified term of the *FSP*; and the commencement date of the *FSP*.
- **Application of the *FSP* (Part 3)** specifies what the *FSP* applies to, including which *Licence*s and *agreement holders* and provides for dis-application of a *licence* or *agreement holder* from the *FSP*.
- **Forest Development Units (Part 4)** outlines five *FDU*'s applicable to the *FSP*, specifies which *licences* and *agreement holders* will operate within each *FDU*, and provides an *FDU* Overview Map.
- **Results or Strategies (Part 5)** specifies results or strategies consistent to the extent *practicable* with each applicable objective set by *government*. Each objective is summarized and sourced. In some instances, such as the objective for Soils, there exists a default practice requirement that has been adopted as the result or strategy for the *FSP*; in other instances, this plan either replaces the default or in situations in which there is no such default it proposes a result or strategy designed to be consistent with *governments* established objective. Sources of objectives addressed by the plan include:
    - objectives prescribed under *FRPA* 149 (1);
    - objectives established under *FPC* and continued under *FRPA* 181 for Specified Designations designated under *FPC* and continued under *FRPA* 180;
    - objectives established under section 93.4 of the Land Act,
    - objectives established under *FPC* section 3-5, and continued under Land Act section 93.8 as an objective established under Land Act section 93.4; and
    - objectives established through the *Government* Actions Regulation.
- **Measures (Part 6),** specifies measures for invasive plants and natural range barriers as required by *FPPR* sections 17 and 18.
- **Stocking Standards (Part 7)** provides background information on the requirements for stocking standards; the election of stocking standards generally for each *cutblock* and any specified variations from the stocking standards.
- **Signatures (Part 8),** includes the signatures of the Preparing Forester, the person required to prepare the plan.
- **Appendices** include Stocking Standards (Appendix A); Objectives for Interpretive Forest Sites, Recreation Sites or Recreation Trails continued under *FPPR* section 181 (Appendix B); Fly Hills Marten RMZ Sub-units (Appendix C); *FSP* Maps (Appendix D); *FSP* Notice, Review and Comment (Appendix E) and Amendment Log (Appendix F).

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# 1 ADMINISTRATION AND INTERPRETATION

## 1.1 Definitions

Definitions appearing in the body of this *FSP* are presented in *italics* for ease of recognition.

In this *FSP*, unless this *FSP* specifies, or the context requires otherwise:

1. ***"Act"*** means the *Forest and Range Practices Act* RSBC 2002, c.69;
2. ***"adjacent"*** as defined in *FPPR* 65(1) means "an area that is sufficiently close to a *cutblock* that, due to its location, could directly impact on, or be impacted by, a forest practice carried out within the *cutblock*";
3. ***"administrative boundary"*** means features including but not limited to private property lines, area-based tenure boundaries, protected area boundaries, or boundaries associated with the buffer of an inventory permanent sample plot that may influence primary forest activities;
4. ***"agreement"*** means an agreement listed in Paragraph 3, unless this *FSP* no longer applies to that agreement;
5. ***"agreement holder"*** is defined in *FPPR* section 1 and "means a holder of an agreement under the *Forest Act*, other than a woodlot *licence*" and for the purpose of this *FSP*, applies to the agreement holders listed in Paragraph 3, or any successor or assignee of that *agreement*, unless this *FSP* no longer applies to that agreement holder;
6. ***"applicable SAR notice"*** means
   (i) a notice issued under *FPPR* section 7(2) entitled:
      a) "*NOTICE – INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE SURVIVAL OF SPECIES AT RISK IN THE ARROW BOUNDARY FOREST DISTRICT*" dated December 30, 2004;
      b) "*NOTICE –INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE SURVIVAL OF SPECIES AT RISK IN THE OKANAGAN SHUSWAP FOREST DISTRICT*" dated December 30, 2004;
      c) "*NOTICE – INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE SURVIVAL OF SPECIES AT RISK IN THE CASCADES FOREST DISTRICT*" dated December 30, 2004;
      d) "*NOTICE – INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE SURVIVAL OF SPECIES AT RISK IN THE HEADWATERS FOREST DISTRICT*" dated December 30, 2004; or
   (ii) The undated document entitled *"BACKGROUND INFORMATION FOR WILDLIFE HABITAT FOR SPECIES AT RISK OBJECTIVES UNDER THE KAMLOOPS LAND AND RESOURCE MANAGEMENT PLAN, IN THE KAMLOOPS FOREST DISTRICT".*
7. **"*BEC*"** means Biogeoclimatic Ecosystem Classification;
8. ***"CP"*** means a Cutting Permit;
9. ***"current"*** means, in the context of an *FSP*, timber sale *licence*, *CP* or *RP*, an approved document that has not expired or been replaced;
10. ***"cutblock"*** means an area:
    (i) in which a holder of a *Licence* has harvested timber under a *CP* or timber sale *licence*; or
    (ii) in which a holder of a *Licence* is authorized to harvest timber but where harvesting has not occurred;
11. *"**dbh**"* means diameter breast *height*, a standard method of expressing the diameter of the bole of a tree, generally measured at a *height* 1.3 metres above the point of germination.
12. ***"established cutblock"*** means a *cutblock* that has been:
    (i) harvested under a *licence* to which this *FSP* applies;
    (ii) declared under this *FSP*;
    (iii) included within a *current CP* issued under a *licence* to which this *FSP* applies, whether the *CP* is or is not subject to this *FSP*; or
    (iv) identified spatially in the BC Geographic Warehouse as a *cutblock*:
       a) harvested under a timber sale *licence* or *major licence* to which this *FSP* does not apply; or

b) included in a timber sale *licence or current CP* issued under a *major licence* to which this *FSP* does not apply.

13. ***"established road"*** means a *road* that has been:
    (i) constructed under a *CP* or *RP* issued under or associated with a *licence* to which this *FSP* applies;
    (ii) declared under this *FSP*;
    (iii) included within a *current CP* or *RP* issued under or associated with a *licence* to which this *FSP* applies, whether the *CP* or *RP* is or is not subject to this *FSP*;
    (iv) identified spatially in the BC Geographic Warehouse as a *road*:
        a) constructed by a person other than a *holder* of this *FSP*; or
        b) included within a *CP* or *RP* issued in respect of a *Licence* to which this *FSP* does not apply.
14. ***"FDU"*** means a Forest Development Unit;
15. ***"Forest Act"*** means the Forest Act R.S.B.C. 1996, c.157;
16. ***"forested area"*** means an area of crown forest identified in the *VRI* as contributing to the forest management land base, as indicated by the Forest Management Land Base Indicator attribute. This attribute indicates whether a polygon is forested or has been forested and is capable of producing a stand of trees. Polygons classified as lakes, rock, alpine, shrub and wetland are not considered *forested area*.
17. ***"FPC"*** means the Forest Practices Code of British Columbia Act R.S.B.C. 1996, c. 159 and all regulations there under;
18. **"*FPPR*"** means the Forest Planning and Practices Regulation B.C. Reg. 14/2004;
19. **"*FRPA*"** means the **"*Act*"** and the regulations there under;
20. **"*FSP*"** means a Forest Stewardship Plan;
21. ***"FSP holder"*** or ***"holder"*** means the *agreement* holders listed in Paragraph 3.1, or any successor or assignee of that *agreement*, unless this *FSP* no longer applies to that *agreement holder*;
22. **"*GAR*"** means the *Government* Actions Regulation B.C. Reg. 582/2004;
23. **"*government*"** means the *government* of British Columbia;
24. **"*height*"** means the average *height* of a specified *forested area*, as confirmed by *VRI* data or a survey that is available to or completed by the *FSP holder*.
25. ***"initial silviculture activities"*** means, for the following activities on a *cutblock*, the activity that is completed last:
    (i) site preparation;
    (ii) debris pile burning; or
    (iii) initial reforestation, including tree planting or direct seeding.
26. ***"KBHLPO"*** means the Kootenay Boundary Higher Level Plan Order, established pursuant to *FPC* sections 3(1), 3(2), and 9.1, objectives of which are continued under section 93.8 of the Land Act as objectives established by the *minister* under section 93.4 of the Land Act, and effective October 26, 2002;
27. ***"KHLPO"*** means the Kamloops Higher Level Plan Order, established pursuant to section 93.4 of the Land Act, and dated Jan 8, 2009;
28. ***"KLRMP"*** means the Kamloops Land and Resource Management Plan;
29. ***"legislated planning date"*** means:
    (i) subject to Clause (ii), the date 4 months before the September 8, 2023 date of FSP extension submission; or
    (ii) if an enactment or an objective set by *government* requires that a date different than the date referred to in Clause (i) be applied under this *FSP*, then that different date;
30. ***"licence"*** means an agreement under the *Forest Act*;
31. ***"major licence***" has the meaning given to it under the *Forest Act*;
32. ***"minister"*** means the *minister* responsible for the *Forest Act*;
33. ***"net area to reforest"*** or ***"NAR"*** has the meaning given to it in *FPPR* section 1 (2);
34. ***"OGMA"*** means an Old Growth Management Area as defined in Paragraphs 5.16.1.1, 5.16.3.1, and 5.16.4.1;
35. **"*OSLRMP*"** means the Okanagan-Shuswap Land and Resource Management Plan;
36. **"*OSLRMP LUO*" or "*LUO*"** means the "*PROVINCE OF BRITISH COLUMBIA, ORDER OF THE MINISTER OF AGRICULTURE AND LANDS ESTABLISHING OBJECTIVES SET BY*

*GOVERNMENT IN THE AREA COVERED BY THE OKANAGAN-SHUSWAP LAND AND RESOURCE MANAGEMENT PLAN IN THE OKANAGAN SHUSWAP FOREST DISTRICT",* established pursuant to section 93.4 of the Land Act, and *e*ffective March 1, 2007;

37. **"*practicable*"** means that which is feasible or performable in the circumstances, when the balance of all relevant factors (such as environment, social, economic, safety, usefulness) is considered;
38. ***"primary forest activity"*** has the meaning given to it in *FPPR* section 1, and "means one or more of the following:
    (i) timber harvesting;
    (ii) silviculture treatments;
    (iii) wildlife habitat enhancement;
    (iv) *road* construction, maintenance and deactivation";
39. ***"proposed wildlife habitat area"*** means an area that is:
    (i) located outside of an *established cutblock* or *established road;* and
    (ii) identified by the ministry responsible for environment in a review and comment referral package provided to the *FSP holder* not less than 12 months prior to a cutting authority application or amendment over that area, as being under consideration for establishment as a *wildlife habitat area*;
40. **"*qualified professional*"** means a registered member in good standing with a professional association whose training, ability and experience makes the member professionally competent in the relevant area of practice;
41. **"*range agreement*"** means a grazing tenure held by a *range agreement* holder and issued under the *Range Act* or *Land Act*. Spatial and attribute data for *range agreements* are housed in the BC Geographic Warehouse.
42. **"*road*"** has the meaning given to it in *FPPR* section1;
43. **"*RP*"** means a *road* permit;
44. **"*S6L*"** means a stream as defined in *FPPR* section 47(3b) [*Stream riparian classes*], where the year-round wetted stream width is greater than 1.5m.
45. ***"safety hazard"*** means a situation or circumstance the *holder* determines to be a potential source of harm to workers based on WorkSafe BC regulations and policies, or the general public. *Safety hazards* include but are not limited to danger trees (snags), inadequate visibility, falling objects, steep slopes, or unstable terrain;
46. ***"scenic area"*** has the meaning given to it under *FPPR* section 1;
47. **"*THLB*"** means Timber Harvesting Land Base as defined in the Timber Supply Review document for the Timber Supply Areas applicable to this *FSP*;
48. **"*timeline*"** means, in regard to an *FSP* result or strategy referral provided by the *FSP holder* to a First Nation or stakeholder, the length of time specified in the referral that provides a reasonable opportunity for review and response. A referral response must be received by the *FSP holder* within the *timeline* specified in the referral in order to be considered as part of the result or strategy. The *timeline* will be:
    (i) 60 days for First Nations;
    (ii) 30 days for stakeholders; or
    (iii) another length of time where agreed to with a First Nation or stakeholder, or as indicated in a notice published in a newspaper.
49. **"*TSA*"** means a timber supply area;
50. **"*VRI*"** means Vegetation Resource Inventory, the photo-based inventory data of the BC provincial forest which is housed in the BC Geographic Warehouse. The *VRI* data that is relevant to specific *FSP* results or strategies is the version of *VRI* that is available not less than 18 months prior to cutting authority application or amendment;
51. **"*wildlife habitat area*" or "*WHA*"** as defined in *FPPR* section1 "means a *wildlife habitat area*
    (i) continued under section 180 (b) [grandparenting specified designations] of the *Act*, or
    (ii) established under the *Government* Actions Regulation".

## 1.2 Relevant Date for Legislation and Objective References

In this *FSP*, unless this *FSP* specifies otherwise, reference to:

a) legislation;
b) an established objective;

c) a notice under *FPPR* section 7(2):
d) the designation of a species to which such a notice or established objective applies;
e) the establishment of an area referred to in *FPPR* section 14(3)(a) to (i); or
f) an order made by *government*

means that legislation, established objective, notice, designation, area or order as it existed on the *legislated planning date,* unless it is repealed or cancelled, in which case the reference to that legislation, notice, designation, objective or order does not apply.

## 1.3 Definition from Legislation

In this *FSP*, unless this *FSP* specifies, or the context requires otherwise, words and phrases defined in *FRPA* or the *Forest Act* and the regulations under them have the same meaning as those definitions, as they were on the Legislative Planning Date.

## 1.4 Changes to Legislation

Subject to Paragraph 1.2, if legislation referred to in this *FSP* is renamed or a provision of legislation referred to in this *FSP* is renumbered, the reference in this *FSP* is to be construed as a reference to the provision as renamed or renumbered, as the case may be.

## 1.5 Expressions Inclusive

In this *FSP*, unless this *FSP* specifies, or the context requires otherwise:

a) the singular includes the plural and the plural includes the singular; and
b) the masculine, the feminine and the neuter are interchangeable, and each includes the body corporate.

## 1.6 Organization

This *FSP* is divided into parts, paragraphs, subparagraphs, clauses, sub-clauses and sections, illustrated as follows:

1. Part;
1.1 Paragraph;
(a) Subparagraph;
(i) Clause;
(A) Sub-clause;
(I) Section,

and a reference to a subparagraph, clause, sub-clause or section is to be construed as a reference to a subparagraph, clause, sub-clause or section of the paragraph, subparagraph, clause or sub-clause, as the case may be, in which the reference occurs.

## 1.7 Headings and Preamble

The headings and Preamble in this *FSP* are for ease of reference only and are not to be construed as part of this *FSP*.

## 1.8 Appendices Part of *FSP*

The Appendices to this *FSP* are a part of this *FSP* and any reference in this *FSP* to this *FSP* includes a reference to the Appendices.

## 1.9 Application of Results and Strategies

Each result and strategy in this *FSP* applies to an area that is subject to a *CP* or *RP* held by an *agreement holder*. Notwithstanding the foregoing, in a proceeding in respect of an alleged failure to achieve a result or carry out a strategy, the result or strategy applies only to the *agreement holder* whose *CP* or *RP* is located in the area subject to the proceeding.

## 1.10 Conditional Exemptions under *FPPR* section 12

The *FSP holder* is exempt from the *FPPR* practice requirement sections specified in Table 1.10 by including an applicable result or strategy in this approved *FSP*:

| Table 1.10 Conditional Exemptions | | |
|---|---|---|
| **Paragraph in this *FSP*** | ***FPPR* section providing Exemption** | ***FPPR* Practice Requirement section to which the Exemption Applies** |
| 5.2.1 | 12.2(1) | 35 (adopted in strategy) |
| 5.5.1 | 12.2(2) | 36 (adopted in strategy) |
| 5.5.1 | 12.3(1) | 47(4) to (6) (adopted in strategy) |
| 5.5.1 | 12.3(2) | 48(3) to (5) (adopted in strategy) |
| 5.5.1 | 12.3(3) | 49 (2) (replaced by strategy) |
| 5.5.1 | 12.3(3) | 49(3) (adopted in strategy) |
| 5.5.1 | 12.3(4) | 50(1) (adopted in strategy) |
| 5.5.1 | 12.3(5) | 51(1) and (3) (adopted in strategy) |
| 5.5.1 | 12.3(6) | 52(2) (adopted in strategy) |
| 5.5.1 | 12.3(7) | 53 (adopted in strategy) |
| 5.12.2 | 12.31(1) | 55 (adopted in strategy) |
| 5.12.2 | 12.31(2) | 56 (adopted in strategy) |
| 5.12.2 | 12.31(3) | 57 (adopted in strategy) |
| 5.13.2 | 12.32(1) | 59 (adopted in strategy) |
| 5.13.2 | 12.32(2) | 60(2) (adopted in strategy) |
| 5.13.2 | 12.32(3) | 61 (adopted in strategy) |
| 5.14.2 | 12.4(1) | 64(1) (adopted in strategy) |
| 5.14.2 | 12.4(2) | 65(2) (replaced by strategy) |
| 5.15.2 | 12.5 (1) | 66 (replaced by strategy) |
| 5.15.3 | 12.5 (2) | 67 (replaced by strategy) |

# 2 TERM

## 2.1 Date of Submission

The date of submission of this *FSP* for approval is September 13, 2017.

## 2.2 Term

For the purposes of section 6(1) (a) of the *Act*, the term of this *FSP* is 5 years, commencing on the date specified in Paragraph 2.3 unless:

a) the *holders* of this *FSP* elect to replace it with another approved *FSP*; or
b) it is extended pursuant to *FRPA*.

## 2.3 Commencement of Term

For the purposes of section 6(1) (b) of the *Act*, the term of this *FSP* commences on the date of approval by the Delegated Decision Maker (DDM), or another date as specified by the DDM.

# 3 APPLICATION

## 3.1 Application to Agreements and Holders of Agreements

For the purposes of *FRPA* section 3(4), this *FSP* applies to each cutting permit issued and each *road* permit granted:

a) on or after the date the term of this *FSP* commences, as specified in Paragraph 2.3;
b) within an *FDU*; and

c) in respect of the *agreements* under the *Forest Act* and the *agreement holders* specified in Table 3.1.

**Table 3.1 *FSP* Agreement Holders and Agreements**

| ***FDU* Number** | ***FDU* Name** | ***TSA*/TFL** | **Agreement Holder** | **Forest Act Agreement** |
|---|---|---|---|---|
| 1 | Kamloops | Kamloops | Tolko Industries Ltd. | FLs A18686, A84658 |
| 1 | Kamloops | Kamloops | Ashcroft Indian Band | RFL A89985 |
| 1 | Kamloops | Kamloops | Skeetchestn Indian Band | RFL A89992<br>NRFLs A88945, A91367 |
| 1 | Kamloops | Kamloops | Gilbert Smith Forest Products Ltd. | FLs A18692, A89106 |
| 1 | Kamloops | Kamloops | Neskonlith Indian Band | RFL A89989 |
| 1 | Kamloops | Kamloops | West Fraser | FL A18694 |
| 1 | Kamloops | Kamloops | Tk'emlupsemc Forestry Development Corp | NRFL A73555, RFL A89987 |
| 2 | Merritt | Merritt | Tolko Industries Ltd. | FLs A18696, A18697, A74911 |
| 2 | Merritt | Merritt | Upper Nicola Band | FL A84497 |
| 3 | Okanagan | Okanagan | Tolko Industries Ltd. | FLs A18667, A18672, A74912,<br>TL T0816, A96465 |
| 3 | Okanagan | Okanagan | Stella-Jones Inc. | FLs A18632, A18666 |
| 3 | Okanagan | Okanagan | Gorman Bros. Lumber Ltd. | FL A18671 |
| 3 | Okanagan | Okanagan | Yucwmenlucwu ("Caretakers of the Land") LLP | RFL A89359, FLA98363 |
| 3 | Okanagan | Okanagan | Monashee Community Forest | K2X |
| 3 | Okanagan | Okanagan | Okanagan Indian Band | FL A91117 |
| 3 | Okanagan | Okanagan | Upper Nicola Band | FL A91687 |
| 3 | Okanagan | Okanagan | Westbank First Nation | RFL A91134 |
| 4 | TFL 49 | TFL 49 | Tolko Industries Ltd. | TFL 49 |
| 5 | Arrow | Arrow | Tolko Industries Ltd. | FL A20191 |
| 5 | Arrow | Arrow | Yucwmenlucwu ("Caretakers of the Land") LLP | FL A73614 |
| 6 | Boundary | Boundary | Tolko Industries Ltd. | FL A18970 |

## 3.2 Dis-application of *FSP*

At any time during the term of this *FSP*, an *agreement holder* may elect to dis-apply this *FSP* from an *agreement* it holds, as specified in Paragraph 3.1.

## 3.3 *Cutblock*s or *Road*s Approved under a Previous *FSP*

Consistent with *FRPA* section 21(2), *cutblock*s or *road*s approved under a previous *FSP* or FDP will be subject to this *FSP* for a result or strategy under Part 5, a measure under Part 6 or a stocking standard under Part 7 if an amendment to the *cutblock* or *road* site plan states that the application of the *current FSP* provision applies.

# 4 FOREST DEVELOPMENT UNITS

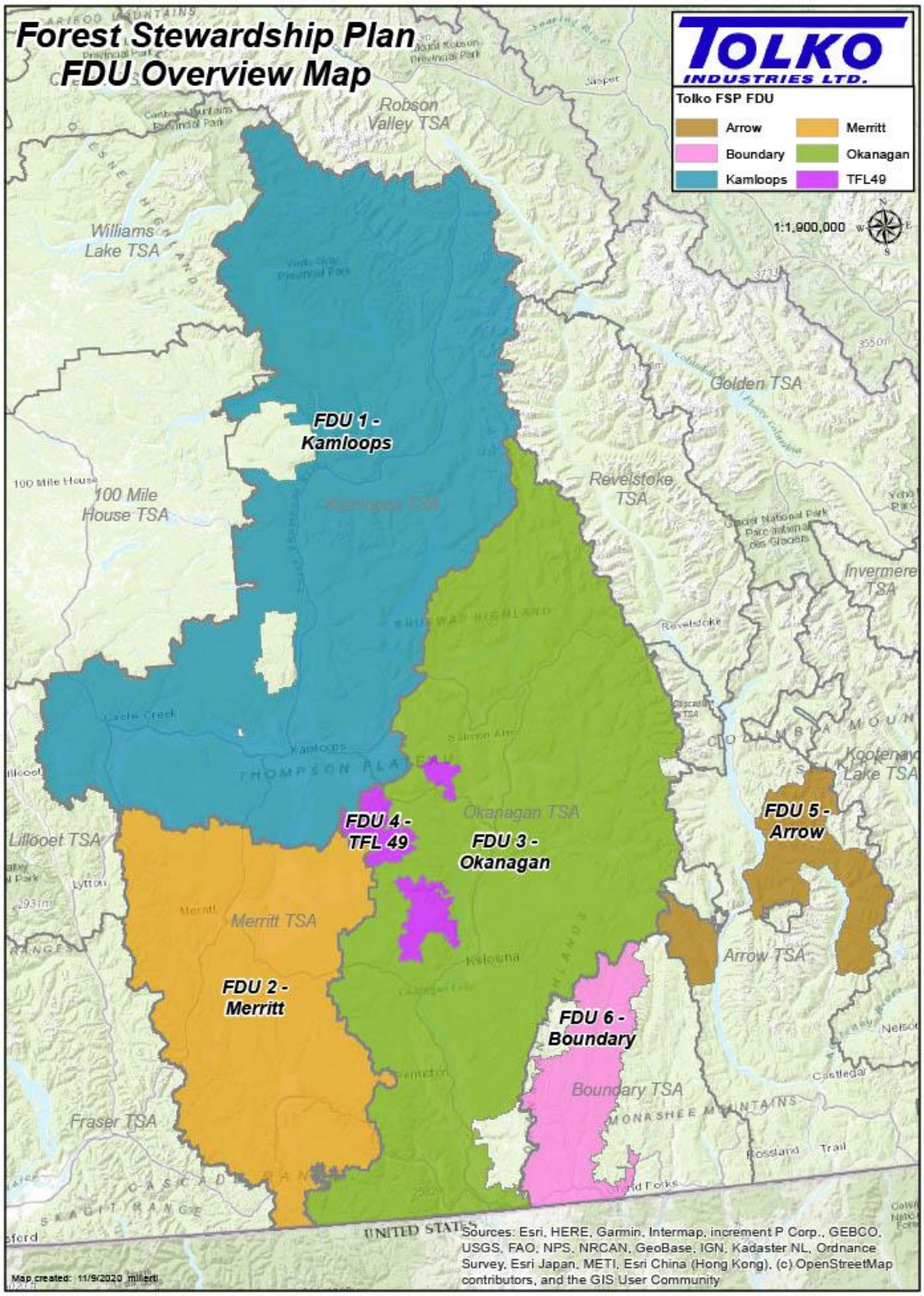
## 4.1 Forest Development Units

For the purposes of the *FRPA* section 5(1)(a)(ii) and *FPPR* section 14(1)(a), the *FDU*s that apply to *agreement holders* and *agreements* specified in Paragraph 3 are indicated in Table 4.1 and shown on the Forest Stewardship Plan Maps in Appendix D to this *FSP*. An overview map is shown in section 4.2 for illustrative purposes. This FSP is not applicable to area-based tenures that are located within the identified FDU's. Due to map scale limitations these area-based tenures have not been mapped out, with the exception of Tree Farm Licences.

**Table 4.1 Forest Development Units**

| ***FDU* Number** | ***FDU* Name** | **Description** |
|---|---|---|
| 1 | Kamloops | Kamloops *TSA*, excluding *KLRMP* Battle Bluffs Habitat Resource Management Zone H10 |
| 2 | Merritt | Merritt *TSA* |
| 3 | Okanagan | Okanagan *TSA* and Monashee Community Forest |
| 4 | TFL 49 | TFL 49 Area |
| 5 | Arrow | Portions of the Arrow *TSA* as indicated on the *FSP* maps in Appendix D |
| 6 | Boundary | Portions of the Boundary T*SA* as indicated on the *FSP* maps in Appendix D |

## 4.2 *FDU* Overview Map



## 4.3 Identifying Required Values within Forest Development Units

For the purposes of *FPPR* sections 14(2) and (3), Table 4.2.1 and the Forest Stewardship Plan Maps in Appendix D to this *FSP* identify the things referred to in those sections that are in the *FDU*s and in effect as of the *legislated planning date*. These items include: ungulate winter range, *wildlife habitat area*, fisheries sensitive watershed, *scenic area*, community watershed, *old growth management area*, area in which commercial harvesting is prohibited by another enactment and cutting permits and *road* permits that are held by the *agreement holder* if that is the person required to prepare the plan.

**Table 4.2.1 Cutting Permits and *Road* Permits held by the agreement holder that is the person required to prepare the plan, and are in effect as of the legislated planning date**

| ***FDU* #** | ***Licence*** | **Cutting Permit/*Road* Permit** |
|---|---|---|
| 1 | FL A18686 | CP's 252, 257, 258, 259, 260, 261, 363, 369, 373, 377, 378, 379, 382, 386, 393, 394, 398, 400, 401, 403. (timbermark prefix ES4)<br>RP R13467 |
| 1 | FL A84658 | CP's 112, 115, 116, 255, 390, 402, 994, 15K. (timbermark prefix DG2)<br>RP R17009 |
| 2 | FL A18696 | CP's 636, 811 (timbermark prefix EU5)<br>RP R07748 |
| 2 | FL A18697 | CP's 217, 229, 267, 289, 293, 295, 296, 346, 349, 350, 351, 456, 459, 544, 557, 558, 560, 566, 567, 568, 569, 570, 571, 572, 574, 630, 635, 637, 638, 740, 751, 752, 753, 764. (timbermark prefix EU6)<br>RP R07753 |
| 2 | FL A74911 | CP's 203, 204, 211, 214, 215, 265, 268, 290, 294, 298, 299, 352, 451, 454, 458, 551, 554, 559, 563, 573, 634, 639, 640, 641, 728, 744, 746, 748, 754, 812, 813, 814, 815. (timbermark prefix BJ5)<br>RP R14883 |
| 3 | FL A18667 | CP's 243, 247, 253, 361, 377, 400, 463, 467, 470, 473, 496, 497, 501, 533, 538, 539, 542, 545, 547, 548, 573, 577, 679, 689, 701, 702, 785, 806, 817, 930, 939, 982, 984, 988, 989. (timbermark prefix ER4)<br>RP R07604 |
| 3 | FL A18672 | CP's 101, 102, 104, 105, 106, 108, 109, 205, 313, 340, 348, 352, 361, 398, 412, 419, 420, 430, 445, 450, 454, 455, 458, 459, 460, 464, 466, 467, 468, 469, 470, 471, 473, 476, 479, 481, 484, 485, 487, 488, 489, 490, 492, 493, 494, 495, 496, 497, 498, 533, 534, 535, 536, 537, 538, 540, 543, 544, 546, 547, 549, 551, 553, 554, 555, 558, 559, 563, 564, 565, 566, 567, 568, 569, 607, 631, 632, 648, 653, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 667, 668, 670, 748, 781, 812, 813, 850, 912, 914, 915. (timbermark prefix ER9)<br>RP R07605 |
| 3 | FL A74912 | CP's 303, 328, 343, 388, 389, 532, 541, 589, 603, 604, 802, 919, 921, 922, 923, 924, 926, 927, 928, 929, 930, 931, 932, 933, 935, 936, 937, 938, 939, 940, 941, 942, 943, 945, 946, 947, 948, N66, N72, N76, N78, N86, N87, N90, N91, N94, N95, N96. (timbermark prefix BJ6)<br>RP R14669 |
| 3 | TL T0816 | CP's AC, AD, EB, GA, (timbermark prefix TAXB)<br>CP J (timbermark prefix T0816)<br>RP R07603 |
| 4 | TFL 49 | CP's 571, 696, 698, 738, 745, 746, 750, 754, 760, 763, 764, 765, 766, 859, 860, 868, 981, 983, 989, 990, 991, 992, 993, 997, N64, N65, N73, N82, N89, N90, N97. (timbermark prefix 49/)<br>RP R07602 |
| 5 | FL A20191 | CP 85 (timbermark prefix FA7)<br>RP R04298 |
| 6 | FL A18970 | none |

# 5 RESULTS AND STRATEGIES

## 5.1 Timber

| **Source of Objective:** *FPPR* section 6 Timber |
|---|
| The objectives set by *government* for timber are to<br>a) Maintain or enhance an economically valuable supply of commercial timber from British Columbia's forests,<br>b) Ensure that delivered wood costs, generally, after taking into account the effect on them of the relevant provisions of this regulation and of the *Act*, are competitive in relation to equivalent costs in relation to regulated primary forest activities in other jurisdictions, and<br>c) Ensure that the provisions of this regulation and of the *Act* that pertain to primary forest activities do not unduly constrain the ability of a holder of an agreement under the *Forest Act* to exercise the holder's right under the agreement. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

Consistent with *FPPR* section 12(8), the *FSP holder* is exempt from the requirement to prepare a result or strategy for the objectives set by *government* for timber.

## 5.2 Soils

| **Source of Objective:** *FPPR* section 5 Soils |
|---|
| The objective set by *government* for soils is to conserve the productivity and the hydrologic function of soils. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.2.1 Result or Strategy for Soils

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objective set by *government* for soils that is set out in section 5 of the *FPPR*, the *FSP holder* adopts as a strategy, *FPPR* section 35 (*Soil disturbance limits)* and *FPPR* section 36 (*Permanent access structure limit*s) as those sections were on the *legislated planning date* of this *FSP*.

## 5.3 Wildlife - *FPPR* section 7(1) Species at Risk and *KHLPO* Wildlife Objectives

### 5.3.1 *KHLPO* Mountain Goat

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Source of Objective:** *KHLPO* section 2.1.3.1 |
| To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP. |
| **Source of Objective:** *KHLPO* section 2.1.12 |
| Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue-listed species, as defined by Ministry of Environment, and species designated as regionally important (e.g. Mule Deer). |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat areas*. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.1.1 Definitions

For the purposes of this result or strategy:

**"*Mountain Goat winter range*"** means areas that are identified as mountain goat winter range, provided as spatial data supporting the *FPPR* section 7(2) Notice for Mountain Goat.

**"*escape terrain*"** means rock outcrops or cliffs with slopes greater than 60%, within *Mountain Goat Winter Range*.

**"*early seral state*"** means a *VRI* polygon with an age less than 40 years as determined by *VRI* attribute PROJ_AGE_1.

#### 5.3.1.2 Result or Strategy for *KHLPO* Mountain Goat

Applicable *FDU*: #1-Kamloops

In relation to the objectives set by *government* for the winter survival of Mountain Goat, where the *FSP holder* harvests a *cutblock* or constructs a *road* within *Mountain Goat winter range,* the *FSP holder* will:

1. not harvest *VRI* polygons comprised of >50% Douglas-fir, that are at least 12 metres in *height*, with a canopy closure exceeding 70%, unless that harvesting is required for *road* access and no *practicable* alternative *road* location exists;
2. at the conclusion of that harvesting, not cause there to be:
   a) more than 33% of the *forested area* within 200 metres (slope distance) of *escape terrain* in an *early seral state*; and
   b) less than 50% of the pre-harvest, non-lodgepole pine basal area retained within a *cutblock*, exclusive of *road* rights-of-way and landings;
3. not construct a new *road*, unless no *practicable* alternative *road* location exists; and
4. restrict access to new constructed *road* within *Mountain Goat winter range* to the extent that it is non-passable to a standard four-wheel drive pickup truck within six months of the conclusion of harvesting the *cutblock* accessed by that *road*, where use of the *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* on an ongoing basis. Where the *road* is reactivated on a short-term basis to complete *initial silviculture activities*, restrict access to the *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within three months of the conclusion of the *initial silviculture activities.*

### 5.3.2 *KHLPO* Moose

| |
|---|
| **Source of Objective:** *KHLPO* section 2.1.12.2 |
| [a] Maintain thermal and visual cover for moose and enhance browse production.<br>[b] Maintain suitable forest cover attributes with respect to thermal cover and forage production. |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat area*s. |
| **Source of Objective:** *KHLPO* section 2.5.2 |
| [H12 - Skwilatin Wildlife Habitat] Maintain or enhance forage production and habitat requirements in critical moose winter range. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.2.1 Definitions

For the purposes of this result or strategy:

**"*critical moose winter range*"** means, within *FDU* #1, the area identified as Critical Moose Winter Range on *Map 1: Critical Deer & Moose Winter Range for Kamloops Higher Level Plan* of the Kamloops Higher Level Plan Order, dated January 8, 2009.

"***critical moose winter range planning cell*"** means each spatially separate and distinct polygon identified as *critical moose winter range* on *Map 1: Critical Deer & Moose Winter Range for Kamloops Higher Level Plan* of the Kamloops Higher Level Plan Order, dated January 8, 2009.

**"*moose habitat key element*"** means a W1, W2, W3 or W5 wetland, or a L1-A, L1-B, L2, L3 or L4 classified lake.

**"*moose management unit*"** means an area consisting of a *moose habitat key element* and a 200 metre (slope distance) zone applied to the outside edge of a *moose habitat key element,* inclusive of the riparian management area associated with the *moose habitat key element*.

**"*visual screen*"** means vegetation and/or topography that partially or completely obstructs the view from a *road* surface into an adjacent area.
**"*moose forage*"** means palatable species of plants that are a food source for moose, including willow (*Salix spp*.), birch (*Betula spp*.) and Red-osier dogwood (*Cornus stolonifera*).

#### 5.3.2.2 Result or Strategy for *KHLPO* Moose

Applicable *FDU*: #1-Kamloops
In relation to the objectives set by *government* for moose in the *KLRMP* area, where the *FSP holder* harvests a *cutblock*, constructs a *road* or conducts silviculture treatments within a *critical moose winter range planning cell*, the *FSP holder* will:

1. at the conclusion of harvesting that *cutblock*:
    a) when the harvest area of the *cutblock* is added to the area of *established cutblocks,* not cause:
        (i) less than 20% of the *forested area* within the *critical moose winter range planning cell* to be less than 15 metres in *height;*
        (ii) more than 50% of the *forested area* in a *moose management unit* to be less than 5.0 metres in *height*;
    b) if less than 40% of the pre-harvest basal area is retained on that cutblock, ensure that no point within that *cutblock* is greater than 400 metres from an area that is at least 100 meters in width and has conifer leading forest cover $\geq$ 5 meters in height;
2. not harvest forest types identified as deciduous leading in the *VRI* that are greater than 3 hectares in area;
3. not construct a new permanent *road* within a *moose management unit*, unless no *practicable* alternative *road* location exists;
4. where new permanent *road* is constructed within a *moose management unit*, at the conclusion of the *road* construction and where *practicable*, retain a *visual screen* along and/or between the new permanent *road* and *moose habitat,* unless the safe use of the *road* warrants removal of the v*isual screen*; and
5. retain *moose forage* at the conclusion of harvesting and silviculture treatments (including brushing, weeding and stand tending) where present and *practicable*, unless retaining *moose forage* impedes the ability of a stand to reach free growing status.

### 5.3.3 Merritt *TSA* Moose

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #2-Merritt** |

#### 5.3.3.1 Definitions

For the purposes of this result or strategy:
**"*moose winter range*"** means, within *FDU* #2-Merritt, the area identified as moose winter range on *Figure 2 Ungulate Winter Range in the Merritt Timber Supply Area*, issued as part of the material supporting the *FPPR* section 7(2) Notice for Moose.
**"*landscape unit*"** means the landscape units established for the Merritt Timber Supply Area on June 30, 2004, pursuant to section 4(1) of the Forest Practices Code of British Columbia Act, in which a *cutblock* is located.
**"*moose winter range planning cell*"** means the area of *moose winter range* that is located with a unique landscape unit.
**"*cover*"** means the area of coniferous stands that are at least 16 metres in *height*, with a crown closure not less than 25%.
**"*early seral*"** means forest types identified in the *VRI*:
(i) in the IDF or ICH *BEC* zones, with an age of less than 25 years; and

(ii) in the MS or ESSF *BEC* zones, with an age of less than 35 years.

**"*patch*"** means the total area of contiguous forest types that meet the definition of *cover*.

#### 5.3.3.2 Result or Strategy for Merritt *TSA* Moose

Applicable *FDU*: #2-Merritt

In relation to the objectives set by *government* for moose in the Merritt *TSA*, where the *FSP holder* harvests a *cutblock* that is located within a *moose winter range planning cell*, at the conclusion of harvesting that *cutblock*, the *FSP holder* will not cause:

1. the amount of *early seral* within that *moose winter range planning cell* to be less than 15% of the *forested area;*
2. the amount of *cover* within that *moose winter range planning cell* to be less than 20% of the *forested area;* and
3. less than 50% of the *cover* required by subsection (2), within that *moose winter range planning cell,* to be in *patches* that are at least 20 hectares in area.

### 5.3.4 ***KHLPO* Deer**

| **Source of Objective:** *KHLPO* section 2.1.12.1 |
|---|
| [a] Maintain or enhance forage production and habitat requirements in critical deer winter range.<br>[b] Disperse the timber harvest throughout the winter range and spread it out evenly over the rotation.<br>[c] Maintain at least 25% of *forested area* in thermal cover. Link thermal cover units together with suitable travel corridors, especially mature Douglas-fir vets on ridges. |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat area*s. |
| **Source of Objective:** *KHLPO* section 2.5.2 |
| [H11 - Skull Wildlife Habitat] Maintain or enhance forage production and habitat requirements in critical deer winter range. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.4.1 Definitions

For the purposes of this result or strategy:

**"*critical deer winter range*"** means an area that:

a) is identified as critical deer winter range on *Map 1: Critical Deer & Moose Winter Range for Kamloops Higher Level Plan* of the Kamloops Higher Level Plan Order, dated January 8, 2009; or
b) is within the Skull Wildlife Habitat Management Area.

"***harvest area***" means the area associated with harvesting a cutblock or road, where the harvest is conducted with a silviculture system other than a single tree or group selection, and less than 40% of the pre-harvest basal area is retained at the conclusion of harvesting

**"*suitable snow interception cover*"** or **"*SIC*"** means:

1. a *VRI* polygon within *critical deer winter range* that:
   a) is greater than 0.25 hectares in size;
   b) is conifer leading (with preference given to Douglas-fir); and
   c) has a crown closure class of:
      (i) 2 or greater in the PP or IDFxh *BEC*;
      (ii) 5 or greater in the ICH *BEC*; or
      (iii) 4 or greater in *BEC* zones or subzones not identified in (i) or (ii).

**"*planning cell*"** means a sub-unit of a *Critical Deer Winter Range* polygon with a maximum area of 800 hectares, that is designated and managed internally by the *FSP holder*.

**"*ridge*"** means a topographic feature consisting of a continuous elevated crest of land at least 50 metres in length, where the ground slope perpendicular and downslope of both sides of the crest exceeds 30% for a distance of at least 20 metres (all distances measured as slope distance).

***"suitable travel corridors"*** means areas identified by a QP that provide suitable winter travel habitat for mule deer, with preference given to areas where Douglas-fir greater than 65cm dbh are located on *ridges*.

***"deer forage"*** means palatable species of plants that are a food source for deer, including Douglas maple (*Acer glabrum*), Trembling aspen (*Populus tremuloides*), Saskatoon (*Amelanchier alnifolia*), and Redstem ceonothus (*Ceanothus sanguineus*).

#### 5.3.4.2 Result or Strategy for *KHLPO* Deer

Applicable *FDU*: #1-Kamloops
In relation to the objectives set by government for deer, where the *FSP holder* harvests a cutblock or constructs a road within *critical deer winter range*, the *FSP holder* will:

1. at the conclusion of that harvesting or *road* construction, when the *harvest area* of the *cutblock* or *road* is added to the *harvest area* of *established cutblocks* or *established roads*, not cause there to be less than 25% of the *forested area* in a *planning cell* retained as *SIC*; unless that harvesting is required to construct a *road* and no *practicable* alternative *road* location exists;
2. at the conclusion of that harvesting, road construction, or silviculture treatments on that cutblock (including brushing, weeding and stand tending):
    a) areas of suitable snow interception cover within or directly adjacent to the cutblock are adequately linked together with suitable travel corridors, to the extent that it is *practicable* to do so*;* and
    b) retain *deer forage* where present and practicable, unless retaining deer forage impedes the ability of a stand to reach free growing status.

### 5.3.5 Coastal Tailed Frog

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #2-Merritt** |

#### 5.3.5.1 Definitions

For the purposes of this result or strategy:
**"*occurrence site*"** means the location on a stream having an occurrence of coastal tailed frogs, identified spatially:

a) in information provided as background to the *applicable SAR notice*;
b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
c) as a *proposed wildlife habitat area* for coastal tailed frog.

**"*tailed frog habitat*"** means the area within 100 metres (slope distance) upstream and downstream of an *occurrence site*, and 50 metres (slope distance) on each side of the stream as measured from the edge of the stream channel bank and perpendicular to the stream axis.
**"*core area*"** means the portion of the *tailed frog habitat* within 30 metres (slope distance) on each side of the stream as measured from the edge of the stream channel bank and perpendicular to the stream axis.
**"*management area*"** means the portion of the t*ailed frog habitat* outside of the *core area*.
**"*tailed frog habitat crossing assessment*"** means an assessment completed by a *qualified professional* that evaluates potential impacts to *tailed frog habitat* at a proposed *road* crossing site and provides recommendations regarding crossing width, crossing structure type, sediment control measures timing of construction and access control, in order to:

a) ensure that the constructed crossing does not have a material adverse effect on the passage of tailed frog within the stream channel: and
b) mitigate a potential material adverse impact to *tailed frog habitat*.

#### 5.3.5.2 Result or Strategy for Coastal Tailed Frog

Applicable *FDU*: #2-Merritt

In relation to the objectives set by *government* for Coastal Tailed Frog, when conducting harvesting, *road* construction or silviculture treatments within *tailed frog habitat*, the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless required for a stream crossing and no *practicable* alternative *road* location exists; and
    b) not harvest a *cutblock*;
2. within a *management area*:
    a) not cause there to be less than 70% of the pre-harvest basal area remaining at the conclusion of harvesting; and
    b) not construct a new *road* unless required for a stream crossing and no *practicable* alternative *road* location exists;
3. not employ the use of pesticides;
4. ensure a *tailed frog habitat crossing assessment* is completed prior to constructing a new *road* within *tailed frog habitat*, and construct the crossing consistent with the recommendations of the assessment; and
   if the *FSP holder* harvests a *cutblock* within a *management area*, establish the w*ildlife tree retention area* that pertains to that *cutblock* in the *core area* or *management area* prior to harvesting the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

### 5.3.6 Flammulated Owl

| |
|---|
| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #2-Merritt, #3-Okanagan, #5-Arrow, #6-Boundary** |
| **Source of Objective:** *KHLPO* section 2.1.3.1 |
| To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP. |
| **Source of Objective:** *KHLPO* section 2.1.12 |
| Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue-listed species, as defined by Ministry of Environment, and species designated as regionally important (e.g. Mule Deer). |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat areas*. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.6.1 Result or Strategy for Flammulated Owl

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #5-Arrow, #6-Boundary
In relation to the objectives set by *government* for Flammulated Owl, the strategies specified in the following Paragraphs are the strategies for Flammulated Owl:

1. Paragraph 5.3.4.2 [Result or Strategy for *KHLPO* Deer ] in *FDU* #1;
2. Paragraph 5.4.5.2 [Result or Strategy for OSLRMP LUO Williamson's Sapsucker] in *FDU* #3;
3. Paragraph 5.16.1.2 [Result or Strategy for *KLRMP* Area Old Growth Management Areas] in *FDU* #1;
4. Paragraph 5.16.3.2 [Result or Strategy for Non-Spatial Old Growth] in *FDU* #2 and *FDU* #3; and
5. Paragraph 5.16.4.2 [Result or Strategy for *KBHLPO* Old and Mature Forests] in *FDU* #5 and FDU#6.

### 5.3.7 Great Basin Gopher Snake

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #2-Merritt, #3-Okanagan** |

#### 5.3.7.1 Definitions

For the purposes of this or strategy:

**"*occurrence site*"** means the location of an occurrence of Great Basin Gopher Snake, identified spatially:

a) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
b) as a *proposed wildlife habitat area* for Great Basin Gopher Snake.

***"core area"*** means an area within 200 metres (slope distance) of an *occurrence site*.

#### 5.3.7.2 Result or Strategy for Great Basin Gopher Snake

Applicable *FDU*s: #2-Merritt, #3-Okanagan

In relation to the objectives set by *government* for Great Basin Gopher Snake, the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not harvest a *cutblock*;
    c) not employ the use of pesticides; and
2. if the *FSP holder* constructs a new *road* within a *core area*:
    a) not construct that *road* between April and October of any given year;
    b) not remove or disturb rock outcrops, talus slopes or concentrations of boulders; and
    c) restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*.

### 5.3.8 Spotted Bat

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #2-Merritt, #3-Okanagan** |
| **Source of Objective:** *KHLPO* section 2.1.3.1 |
| To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP. |
| **Source of Objective:** *KHLPO* section 2.1.12 |
| Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue-listed species, as defined by Ministry of Environment, and species designated as regionally important (e.g. Mule Deer). |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat areas*. |

**Applicable *FDU*s: #1-Kamloops**

### 5.3.8.1 Definitions

For the purposes of this result or strategy:
**"*occurrence site*"** means the mapped location of an occurrence of Spotted Bat that where cliff features or talus slope is also present, and is identified spatially:

a) in information provided as background to the *applicable SAR notice*;
b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
c) as a *proposed wildlife habitat area* for Spotted Bat.

***"core area"*** means an area not less than 5 hectares, incorporating an *occurrence site*.
**"*management area*"** is an area located 100 metres (slope distance) beyond the edge of a *core area*.

### 5.3.8.2 Result or Strategy for Spotted Bat

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan
In relation to the objectives set by *government* for Spotted Bat, the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not harvest a *cutblock;*
2. within a *management area:*
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not cause there to be less than 50% of the pre-harvest basal area retained at the conclusion of harvesting;
    c) retain single or grouped tree reserves at the conclusion of harvesting or silviculture treatments, consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level] including stems greater than 65cm dbh where *practicable*;
    d) not employ the use of pesticides;
3. if the *FSP holder* constructs a new *road* within a *core area* or *management area*:
    a) not construct a *road* between March 1 and October 31 of any given year;
    b) not remove rock or talus;
    c) restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*; and
4. if the *FSP holder* harvests a *cutblock* within a *management area*, establish the w*ildlife tree retention area* that pertains to that *cutblock* in the *core area* or *management area* prior to harvesting that *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

## 5.3.9 Coeur d'Alene Salamander

**Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2).

The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for
(a) the survival of species at risk,
(b) the survival of regionally important wildlife, and
(c) the winter survival of specified ungulate species.

**Applicable *FDU*s: #5-Arrow, #6-Boundary**

### 5.3.9.1 Definitions

For the purposes of this result or strategy:

**"*Coeur d'Alene Salamander habitat*"** means an area within the ICH *BEC* zone that is within 50 metres (slope distance) of continuously wet talus, continuously wet fissured bedrock, or waterfall splash zones, located between 500 meters and 1550 meters elevation.
***"Coeur d'Alene Salamander habitat crossing assessment"*** means an assessment completed by a *qualified professional* that evaluates potential impacts *to Coeur d'Alene Salamander habitat* at a proposed road crossing location and provides recommendations regarding crossing width, crossing structure type, sediment control measures, timing of construction and access control, to mitigate a material adverse impact to *Coeur d'Alene Salamander habitat*.

#### 5.3.9.2 Result or Strategy for Coeur d'Alene Salamander

Applicable *FDUs*: #5-Arrow, #6-Boundary
In relation to the objectives set by *government* for Coeur d'Alene Salamander, the *FSP holder* will:

1. not harvest a cutblock within *Coeur d'Alene Salamander habitat*;
2. not construct a new *road* within *Coeur d'Alene Salamander habitat*, unless:
    a) a *qualified professional* confirms that the area does not provide habitat for the Coeur d'Alene Salamander; or
    b) there is no practicable alternative location for the *road*;
3. where a new *road* is constructed within *Coeur d'Alene Salamander habitat*, ensure that a *Coeur d'Alene Salamander habitat crossing assessment* is completed prior to constructing the new *road,* and
4. construct the new *road* consistent with the recommendations of the Coeur *d'Alene Salamander habitat crossing assessment*.

### 5.3.10 Tiger Salamander

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #3-Okanagan** |

#### 5.3.10.1 Definitions

For the purposes of this result or strategy:
**"*occurrence site*"** means the location of an occurrence of Tiger Salamander, identified spatially:

a) in information provided as background to the *applicable SAR notice*;
b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
c) as a *proposed wildlife habitat area* for Tiger Salamander.

***"core area"*** means an area not less than 5 hectares, incorporating an *occurrence site* and any aquatic habitat within 250 metres (slope distance) of the *occurrence site*.
**"*management area*"** is an area located 100 metres (slope distance) beyond the edge of a *core area*.

#### 5.3.10.2 Result or Strategy for Tiger Salamander

Applicable *FDU*: #3-Okanagan
In relation to the objectives set by *government* for Tiger Salamander the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless not *practicable* alternative *road* location exists;
    b) not harvest a *cutblock*.
2. within a *management area*:
    a) not construct a new *road* unless not *practicable* alternative *road* location exists;
    b) not cause there to be less than 40% of the pre-harvest basal area retained at the conclusion of harvesting or silviculture treatments;

c) not employ the use of pesticides;

3. if the *FSP holder* constructs a new *road* within a *core area* or *management area,* restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*; and
4. if the *FSP holder* harvests a *cutblock* within a *management area*, establish the *wildlife tree retention area* that pertains to that *cutblock* in the *core area* or *management area* prior to harvesting the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

### 5.3.11 Great Basin Spadefoot Toad

| **Source of Objective**: *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #3-Okanagan** |

#### 5.3.11.1 Definitions

For the purposes of this result or strategy:

**"*occurrence site*"** means the location of an occurrence of Great Basin Spadefoot Toad, identified spatially:

a) in information provided as background to the *applicable SAR notice*;
b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
c) as a *proposed wildlife habitat area* for Great Basin Spadefoot Toad.

***"core area"*** means an area not less than 5 hectares, incorporating an *occurrence site* and any aquatic habitat within 250 metres (slope distance) of the *occurrence site*.

**"*management area*"** is an area located 100 metres (slope distance) beyond the edge of a *core area*.

#### 5.3.11.2 Result or Strategy for Great Basin Spadefoot Toad

Applicable *FDU*s: #3-Okanagan

In relation to the objectives set by *government* for Great Basin Spadefoot Toad, the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless not *practicable* alternative *road* location exists;
    b) not harvest a *cutblock*.
2. within a *management area*, when conducting *primary forest activities* on a *cutblock*:
    a) not construct a new *road* unless not *practicable* alternative *road* location exists;
    b) retain single or grouped tree reserves at the conclusion of harvesting or silviculture treatments, consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level];
    c) not employ the use of pesticides;
3. if the *FSP holder* constructs a new *road* within a *core area* or *management area,* restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck, within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*; and
4. if the *FSP holder* harvests a *cutblock* within a *management area,* establish the *wildlife tree retention area* that pertains to the *cutblock* in the *core area* or *management area* prior to harvesting the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

### 5.3.12 Fringed Myotis Bat

| **Source of Objective:** *FPPR* section 7(1) Wildlife, triggered by a notice provided under *FPPR* 7(2). |
|---|
| The objective set by *government* for wildlife is to conserve sufficient wildlife habitat in terms of amount of area, distribution of areas and attributes of those areas, for<br>(a) the survival of species at risk,<br>(b) the survival of regionally important wildlife, and<br>(c) the winter survival of specified ungulate species. |
| **Applicable *FDU*s: #3-Okanagan** |

#### 5.3.12.1 Definitions

For the purposes of this result or strategy:

**"*occurrence site*"** means the location of an occurrence of Fringed Myotis Bat, identified spatially:

a) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
b) as a *proposed wildlife habitat area* for Fringed Myotis Bat.

***"core area"*** means an area not less than 3 hectares, incorporating an *occurrence site* and any rock outcrop features within 100 metres (slope distance) of the *occurrence site*.

**"*management area*"** is an area located 100 metres (slope distance) beyond the edge of a *core area*.

#### 5.3.12.2 Result or Strategy for Fringed Myotis Bat

Applicable *FDU*s: #3-Okanagan

In relation to the objectives set by *government* for Fringed Myotis Bat the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not harvest a *cutblock*;
2. within a *management area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not harvest a *cutblock* between May 1 and August 31 of any given year;
    c) not disturb rocky outcrops, loose boulders or talus;
    d) not employ the use of pesticides;
    e) at the conclusion of harvesting a *cutblock* and where *practicable*, not cause there to be less than three (3) of the largest Ponderosa Pine or Douglas-fir trees retained per hectare;
3. if the *FSP holder* constructs a new *road* within a *core area* or *management area*:
    a) not construct that *road* between May1 and August 31 of any given year;
    b) not remove rocky outcrops, loose boulders or talus;
    c) restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*; and
4. if the *FSP holder* harvests a *cutblock* within a *management area,* establish the *wildlife tree retention area* that pertains to the *cutblock* in the *core area* or *management area* prior to harvesting the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

### 5.3.13 Lewis's Woodpecker

| **Source of Objective:** *KHLPO* section 2.1.3.1 |
|---|
| To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP. |
| **Source of Objective:** *KHLPO* section 2.1.12 |

| |
|---|
| Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue-listed species, as defined by Ministry of Environment, and species designated as regionally important (e.g. Mule Deer). |
| **Source of Objective:** *KHLPO* section 2.5.1 |
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat area*s. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.13.1 Definitions

For the purposes of this result or strategy:

**"*occurrence site*"** means the location of an occurrence of Lewis's Woodpecker, identified spatially:

a) in information provided as background to the *applicable SAR notice*;
b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
c) as a *proposed wildlife habitat area* for Lewis's Woodpecker.

***"core area"*** means an area located within 100 metres (slope distance) of an *occurrence site*.

**"*management area*"** is an area located 100 metres (slope distance) beyond the edge of an *occurrence site*.

**"*mature tree*"** means a lodgepole pine tree at least 12.5 cm *dbh*, or another tree species at least 17.5 cm *dbh*.

**"*stub*"** means a *mature tree* that is either mechanically felled or broken off at least 3m above the ground.

#### 5.3.13.2 Result or Strategy for Lewis's Woodpecker

Applicable *FDU*s: #1-Kamloops

In relation to the objectives set by *government* for Lewis's Woodpecker the *FSP holder* will:

1. within a *core area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not harvest a *cutblock*;
2. within a *management area*:
    a) not construct a new *road* unless no *practicable* alternative *road* location exists;
    b) not employ the use of pesticides;
    c) at the conclusion of harvesting a *cutblock* and where *practicable*:
        (i) not cause there to be less than six (6) dead standing *mature trees* or *stubs* per hectare of the largest diameter stems;
        (ii) retain live ponderosa pine and black cottonwood trees great than 30 cm *dbh;*
3. if the *FSP holder* constructs a new *road* within a *core area* or *management area,* restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock*; and
4. if the *FSP holder* harvests a *cutblock* within a *management area,* establish the w*ildlife tree retention area* that pertains to the *cutblock* in the *core area* or *management area* prior to harvesting the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

### 5.3.14 Wildlife – *KHLPO* General Wildlife Objectives

| |
|---|
| **Source of Objective:** *KHLPO* section 2.1.3.1 |
| To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP. |
| **Source of Objective:** *KHLPO* section 2.1.12 |
| Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue-listed species, as defined by Ministry of Environment, and species designated as regionally important (e.g. Mule Deer). |
| **Source of Objective:** *KHLPO* section 2.5.1 |

| |
|---|
| The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified *wildlife habitat areas*. |
| **Applicable *FDU*s: #1-Kamloops** |

#### 5.3.14.1 Result or Strategy for *KHLPO* General Wildlife Objectives

Applicable *FDU*s: #1-Kamloops

In relation to the general wildlife objectives set by *government*, the *FSP holder* will be consistent with the results or strategies applicable to *FDU* #1 specified in:

1. Paragraph 5.3 [Wildlife - *FPPR* section 7(1) Species at Risk *and KHLPO* Wildlife];
2. Paragraph 5.5 [Water, Fish, Wildlife and Biodiversity within Riparian Areas ];
3. Paragraph 5.6 [Retention of Trees in a Riparian Management Zone];
4. Paragraph 5.14 [Wildlife and Biodiversity – Landscape Level ;
5. Paragraph 5.15 [Wildlife and Biodiversity – Stand Level ]; and
6. Paragraph 5.16 [Old Growth Management ].

## 5.4 Wildlife - *OSLRMP LUO* Wildlife Objectives

### 5.4.1 *OSLRMP LUO* Elk Areas

| |
|---|
| **Source of Objective:** *OSLRMP LUO* Objective 6, Elk Areas |
| The objective for areas shown on Map 6 (of the Order) is to maintain congregation areas and movement corridors between summer and winter ranges for Elk. |
| **Applicable *FDU*s: #3-Okanagan** |

#### 5.4.1.1 Definitions

For the purposes of this result or strategy:

**"*elk corridor*"** means an area identified as Elk Habitat Corridor on the map titled *Wildlife-Elk Habitat RMZ Corridor*, on page WILDLIFE_ELK 4-6 of the *OSLRMP*.

**"*elk congregation area*"** means an area identified as an Elk Congregation Area on the map titled *Wildlife-Elk Congregation Areas*, on page WILDLIFE_ELK 4-7 of the *OSLRMP*.

**"*elk areas*"** means the areas identified as Elk Areas on *LUO* Map 6.

**"*mule deer winter range*"** means the ungulate winter range identified in *GAR* Order Ungulate Winter Range #U-8-001-Okanagan *TSA*.

**"*suitable snow interception cover*"** or **"*SIC*"** means a *VRI* polygon that:

a) is greater than 0.25 hectares in size;
b) is Douglas-fir leading;
c) is age class 8 or older; and
d) has a crown closure class of 4 or greater.

**"*contributing snow interception cover*"** means an area in an *elk congregation area* that is:

a) *SIC* and not in an *established cutblock*;
b) not in an *established cutblock* and was *SIC* immediately prior to being harvested;
c) *SIC* and is in an *established cutblock* where harvest is complete; or
d) in an *established cutblock* that is planned to be harvested in a manner that will provide *SIC* upon conclusion of harvesting.

#### 5.4.1.2 Result or Strategy for *OSLRMP LUO* Elk Areas

Applicable *FDU*s: #3-Okanagan

In relation to the objectives set by *government* for *elk areas*, where the *FSP holder* harvests a *cutblock* within e*lk areas*, the *FSP holder* will:

1. if the *cutblock* is within an *elk corridor*, at the conclusion of harvesting:
   a) not cause less than 30% of the *forested area*, including *established cutblocks*, within the *elk corridor* to be greater than 16.0 metres in *height*;
   b) not cause more than 30% of the *forested area,* including *established cutblocks,* within the *elk corridor* to be less than 3.0 metres in *height;*

c) if less than 40% of the pre-harvest basal area in the harvested *cutblock* is retained at the conclusion of harvesting, limit the maximum horizontal distance across the interior of the harvested *cutblock* to 425 metres (horizontal distance), measured from one outside *cutblock* edge to another; and

2. if the *cutblock* is within that portion of the *elk congregation area* that is outside of *mule deer winter range*, conduct harvesting consistent with *GAR Order Ungulate Winter Range #U-8-001-Okanagan TSA* point 9, Schedule 1 - General Wildlife Measures 2 through 9 and 12, and Table 1, not causing *contributing snow interception cover* to be less than the lesser of 33% of the *forested area*, or the amount that existed prior to harvesting the *cutblock*.

### 5.4.2 ***OSLRMP LUO* Marten Areas**

| **Source of Objective:** *OSLRMP LUO* Objective 7, Marten Areas |
|---|
| The objective for areas shown on Map 7 (of the Order) is to maintain forage, cover and connectivity for Marten. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.4.2.1 Definitions

For the purposes of this result or strategy:
**"*marten areas*"** means the areas identified as Marten Areas on *LUO* Map 7.
**"*Fly Hills Marten RMZ*"** means the area identified as Marten Habitat on the map displayed on *OSLRMP* page WILDLIFE_MARTEN 4-4.
**"*Fly Hills Marten RMZ sub-units*"** means the five mapped sub-units which, when combined together comprise the Fly Hills Marten RMZ, as indicated on the map displayed in Appendix C of this *FSP*.
**"*marten corridors*"** means areas of retention established within the *Fly Hills Marten RMZ*, consisting of *OGMA*, Enhanced Riparian Reserve and w*ildlife tree retention*, and managed internally by the *FSP holder*.
**"*debris pile*"** means an accumulation of woody debris mechanically piled to a *height* of at least 2 metres and a diameter of at least 5 metres, which is left on site at the conclusion of harvesting or site preparation activities.

#### 5.4.2.2 Result or Strategy for *OSLRMP LUO* Marten Areas

Applicable *FDU*s: #3-Okanagan, #4-TFL 49
In relation to the objectives set by *government* for *marten areas*, where the *FSP holder* harvests a *cutblock* within *marten areas, the FSP holder will:*

1. prior to harvesting the *cutblock*, establish wildlife tree retention areas where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level], within or adjacent to:
    a) *OGMA*'s;
    b) *enhanced riparian reserves*;
    c) riparian management areas; or
    d) very xeric to xeric sites within or *adjacent* to the *cutblock;*
2. at the conclusion of harvesting and silviculture treatments on the cutblock, retain basic and enhanced levels of coarse woody debris consistent with Paragraph 5.18.2 [Result or Strategy *for* OSLRMP LUO Basic and Enhanced Levels of Coarse Woody Debris Areas] within;
    a) that *cutblock* if it located within the *Fly Hills Marten RMZ;*
    b) the riparian management area of one stream per 40 hectares of harvest area for S4, S5 or S6 streams that do not have an *enhanced riparian reserve* (as defined in Paragraph 5.8.1), for *marten areas* that are located outside the *Fly Hills Marten RMZ*; and
3. if the *cutblock* is within the *Fly Hills Marten RMZ,* at the conclusion of harvesting and silviculture treatments:
    a) not cause there to be less than 2300 hectares of *marten corridors*;
    b) retain where *practicable* at least one unburnt *debris pile* per hectare within the portion of the *cutblock* that is located within 50 metres of:
        (i) riparian areas; or

(ii) *cutblock* edges directly adjacent to areas meeting the *height* requirements of Paragraph 5.14.2 [Result or Strategy for Wildlife and Biodiversity – Landscape Level]; and

c) not cause there to be less than 33% of the *forested area* that is within at least 4 of the 5 *Fly Hills RMZ sub-units* to be 19 metres or greater in *height.*

### 5.4.3 ***OSLRMP LUO* Fisher Areas**

| **Source of Objective:** *OSLRMP LUO* Objective 8, Fisher Areas |
|---|
| The objective for areas shown on Map 8 (of the Order), is to maintain forage, cover and connectivity for Fisher. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.4.3.1 Definitions

For the purpose of this result or strategy:
**"*fisher areas*"** means the areas identified as Fisher Areas on *LUO* Map 8.

#### 5.4.3.2 Result or Strategy for *OSLRMP LUO* Fisher Areas

Applicable *FDU*s: #3-Okanagan, #4-TFL 49
In relation to the objectives set by *government* for *fisher areas*, where the *FSP holder* harvests a *cutblock* within *fisher areas*, the *FSP holder* will:

1. prior to harvesting the *cutblock,* establish *wildlife tree retention areas*, where *practicable* and consistent with Paragraph 5.15.2 Result or Strategy for Wildlife and Biodiversity – Stand Level], within or adjacent to:
    a) *OGMA*'s;
    b) *Enhanced Riparian Reserves* as defined in Paragraph 5.8.1;
    c) riparian management areas; or
    d) areas 0.2 hectares or greater where cottonwood comprises > 80% of the trees per hectare, measured by the number of standing stems greater than 17.4 cm *dbh;* and
2. at the conclusion of harvesting and silviculture treatments on the *cutblock*:
    a) retain basic and enhanced levels of coarse woody debris within the riparian management area of S5 and S6 streams consistent with Paragraph 5.18.2 [Result or Strategy for OSLRMP LUO Basic and Enhanced Levels of Coarse Woody Debris Areas]; and
    b) retain cottonwood trees greater than 75.0 cm *dbh*, where *practicable.*

### 5.4.4 ***OSLRMP LUO* Bighorn Sheep Areas**

| **Source of Objective:** *OSLRMP LUO* Objective 9, Bighorn Sheep Areas |
|---|
| The objective for areas shown on Map 9 (of the Order), is, for the purposes of conserving the suitability of Bighorn Sheep habitat that is not in established deer winter ranges, to retain sufficient forest cover during primary forest activities, including sanitation and salvage activities, to provide for the thermal, snow interception and security requirements of Bighorn Sheep. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.4.4.1 Definitions

For the purposes of this result or strategy:
**"*bighorn sheep areas*"** means the areas identified on *LUO* Map 9.
**"*special features*"** means open grasslands, mineral licks, rutting areas, lambing areas and loafing sites identified by the ministry responsible for wildlife.
**"*bighorn sheep planning cell*"** means each spatially separate and distinct portion of the *bighorn sheep areas* identified on *LUO* Map 9.
**"*crown closure*"** means the percentage of ground area covered by the vertically projected crowns of the tree cover for each tree layer within the polygon and provides an estimate of the vertical projection of tree crowns upon the ground, as confirmed by:

a) *VRI* attribute CROWN_CLOSURE; or

b) a survey of the *forested area* within the *bighorn sheep planning cell* that is available to or completed by the *FSP holder*.

#### 5.4.4.2 Result or Strategy for *OSLRMP LUO* Bighorn Sheep Areas

Applicable *FDU*s: #3-Okanagan, #4-TFL 49
In relation to the objectives set by *government* for bighorn sheep, where the *FSP holder* harvests a *cutblock* within *bighorn sheep areas*, the *FSP holder* will:

1. prior to harvesting the *cutblock*:
    a) refer a proposed *cutblock* to the ministry responsible for wildlife, requesting that s*pecial features* located within or *adjacent* to the *cutblock* be identified;
    b) where the ministry responsible for wildlife identifies *special features* within or *adjacent* to the *cutblock* within the *timeline* specified in the referral, establish the *wildlife tree retention area* that pertains to the *cutblock* such that it encompasses or is *adjacent* to those *special features* that are identified within or *adjacent* to the *cutblock*, where *practicable* and consistent with Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level];
2. at the conclusion of harvesting the *cutblock*, when the harvest area of the *cutblock* is added to the area of *established cutblocks* in a *bighorn sheep planning cell*, not cause greater than 67% of the *forested area* to be less than 16 metres in *height,* with a crown closure less than 26%.

### 5.4.5 *OSLRMP LUO* Williamson's Sapsucker

| **Source of Objective:** *OSLRMP LUO* Objective 11, Williamson's Sapsucker |
|---|
| The objective for Williamson's Sapsucker is to conserve critical breeding habitat. |
| **Applicable *FDU*s: #3-Okanagan** |

#### 5.4.5.1 Definitions

For the purposes of this result or strategy:
**"*Williamson's Sapsucker area of occupation*"** means an area:

1. identified in Figure 2, page 6 of "B.C. Ministry of Forests, Lands and Natural Resource Operations. 2014. *Best management practices for timber harvesting, roads, and silviculture for Williamson's Sapsucker in British Columbia: Okanagan-Boundary Area of Occupancy.* B.C. Ministry of Forests, Lands and Natural Resource Operations, Nelson, BC. 15 pp";
2. within a 500-meter radius (slope distance) of a Williamson's Sapsucker breeding location, identified by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
3. proposed by the ministry responsible for Environment as a Williamson's Sapsucker *wildlife habitat area*, not less than 12 months prior to cutting authority application or amendment, which is located outside of an *established cutblock* or *established road*.

**"*Williamson's Sapsucker primary forest activity design*"** means a design of *primary forest activities*, developed by a *qualified professional* that provides for the conservation of Williamson's Sapsucker critical breeding habitat during harvesting, *road* construction and maintenance, and silviculture treatments by considering:

a) pre-harvest stand condition;
b) forest health factors such as insect infestation, root disease, blowdown, and wildfire;
c) site conditions that may affect worker or public safety;
d) activity timing windows;
e) critical breeding habitat suitability;
f) forest stand management practices and
g) Williamson's Sapsucker critical breeding habitat requirements, including:
    (i) nest tree retention and recruitment;
    (ii) live tree retention targets;
    (iii) sap tree habitat targets; and
    (iv) coarse woody debris retention.

#### 5.4.5.2 Result or Strategy for *OSLRMP LUO* Williamson's Sapsucker

Applicable *FDU*s: #3-Okanagan

In relation to the objectives set by *government* for Williamson's Sapsucker, where the *FSP holder* carries out a *primary forest activity* that is located within a *Williamson's Sapsucker area of occupation*, the *FSP holder* will:

1. prior to harvesting a *cutblock* or constructing a *road*, ensure a *Williamson's Sapsucker primary forest activity design* is developed; and
2. conduct harvesting, *road* construction and maintenance, and silviculture treatments consistent with the *Williamson's Sapsucker primary forest activity design*.

### 5.4.6 Wildlife - *OSLRMP LUO* Forest *Road* Construction

| |
|---|
| **Source of Objective:** *OSLRMP LUO* Objective 10b(i), Map 10 |
| The objective for areas shown on *LUO* Map 10 is to limit the adverse impacts of forest *road* construction on the habitat values of Grizzly Bear, Moose, Mountain Goat, Mule Deer, grasslands and low elevation forests (Ecosystem – Natural Disturbance Type 4) |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |
| **Source of Objective:** *OSLRMP LUO* Objective 10b(ii), Map 10 |
| The objective for areas shown on *LUO* Map 10 is to limit the adverse impacts of forest *road* construction on *walk-in lakes* (listed in *LUO* Schedule); |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.4.6.1 Definitions

For the purposes of this result or strategy:

**"*Grizzly Bear Habitat RMZ*"** means the specified area shown in the map set out in Schedule A of *GAR* ORDER – Grizzly Bear Specified Area # 8-232.

**"*critical grizzly bear habitat*"** means areas within the *Grizzly Bear Habitat RMZ* that include:

a) avalanche tracks;
b) glacier lily complexes;
c) meadow/wetland complexes;
d) riparian site series as per "*OSLRMP* Table 2 Riparian Site Series", page "Wildlife_Grizzly 4-13"; or
e) burn areas that no longer contribute to the *THLB* and are dominated by Vaccinium species.

**"*grizzly bear suitability areas*"** means those areas within the *Grizzly Bear Habitat RMZ* that:

a) north of Highway 6, are identified on the map on page "Wildlife_Grizzly 4-15" of the *OSLRMP* as "High-Moderate" or "High" grizzly habitat suitability
b) south of highway 6, are identified on the map on page "Wildlife_Grizzly 4-15" of the *OSLRMP* as "Moderate", "High-Moderate" or "High" grizzly habitat suitability.

**"*critical moose winter habitat*"** means, within those specified areas shown in the map set out in Schedule A of *GAR* ORDER – Ungulate Winter Range #U-8-006 – Okanagan *TSA*, a zone extending 200 metres (slope distance) from the outer edge of a W1 wetland, a W3 wetland in the MSdm2 or MSxk *BEC*, or a W5 wetland.

**"*mountain goat plateau habitat*"** means the specified areas shown in the map set out in Schedule A of *GAR* ORDER – Ungulate Winter Range #U-8-005 – Okanagan *TSA*, as well as a zone extending 200 metres (slope distance) from the edge those areas.

**"*mule deer winter range*"** means the specified areas shown in the map set out in Schedule A of *GAR* ORDER - Ungulate Winter Range #U-8-001 – Okanagan *TSA*.

**"*NDT4 areas*"** means ecosystems with frequent stand-maintaining fires located within the *LUO* Map 10 area, and identified as the following *BEC*'s:

a) Bunchgrass (all variants);
b) Ponderosa Pine (all variants); and
c) Interior Douglas-fir xh1 and xh2 variants.

**"*walk-in lakes*"** means the lakes listed in the *OSLRMP LUO* Schedule.

#### 5.4.6.2 Result or Strategy for *OSLRMP LUO* Forest *Road* Construction

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the objectives set by *government* to limit the adverse impacts of forest *road* construction on identified habitat values established in *OSLRMP LUO* 10b (i, and ii), the *FSP holder* will:

1. not construct new *road* unless required for a stream crossing, or no other *practicable road* location exists, within:
    a) *critical grizzly bear habitat*;
    b) *grizzly bear suitability areas*;
    c) *critical moose winter habitat*;
    d) 500 metres (slope distance) of a *walk-in lake*;
    e) *mule deer winter range*; or
    f) *NDT 4 areas*;
2. restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of the *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on the *cutblock,* if the *FSP holder* constructs a new *road* within:
    a) *critical grizzly bear habitat;*
    b) *grizzly bear suitability areas*; or
    c) *critical moose winter habitat;*
3. if the *FSP holder* constructs a new *road* within *mountain goat plateau habitat:*
    a) restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within six months of the conclusion of harvesting the *cutblock* accessed by that *road*, where use of the *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* on an ongoing basis; and
    b) if that *road* is reactivated on a short-term basis to complete *initial silviculture activities* on a *cutblock*, restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within three months of the conclusion of the *initial silviculture activities* on that *cutblock*.

## 5.5 Water, Fish, Wildlife and Biodiversity within Riparian Areas

| **Source of Objective:** *FPPR* section 8 |
|---|
| The objective set by *government* for water, fish, wildlife and biodiversity within riparian areas is to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.5.1 Result or Strategy for Water, Fish, Wildlife and Biodiversity Within Riparian Areas

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary
In relation to the objectives set by *government* for water, fish, wildlife and biodiversity within riparian areas set out in section 8 of the *FPPR*, the *FSP holder*:

1. adopts the following *FPPR* sections, as those sections were on the *legislated planning date* of this *FSP*, consistent with *FPPR* section 12.3, which provides for a conditional exemption from one or more of *FPPR* sections 47 to 53:
    a) 47 (4) to (6) [Stream Riparian Classes];
    b) 48 (3) to (5) [Wetland Riparian Classes];
    c) 49 (3) [Lake Riparian Classes];
    d) 50 (1) [Restrictions in a Riparian Management Area];
    e) 51 (1) and (3) [Restrictions in a Riparian Reserve Zone];
    f) 52 (2) [Restrictions in a Riparian Management Zone];
    g) 53 [Temperature Sensitive Streams];
2. is conditionally exempt from *FPPR* section 49(2), consistent with *FPPR* section 12.3(3);
3. establishes for each riparian class of lake, the minimum riparian management area width, riparian reserve zone width and riparian management zone width as indicated in Table 5.5.1;
4. will, when harvesting or carrying out a silviculture treatment on a *cutblock* to which this *FSP* applies:

a) not permit the tracks or wheels of ground-based machinery within 5 metres (slope distance) of a S4, S5, S6 or S6L stream bank unless:
   (i) required to construct a stream crossing;
   (ii) operating the machinery more than 5 metres from the stream bank would create a higher risk of sediment delivery to the stream; or
   (iii) the harvesting or silviculture treatment is conducted in a manner that does not cause a material adverse effect to the stream bank and understory vegetation that is within 5 metres (slope distance) of the stream bank, and
b) fall and yard or skid trees away from the stream channel of S4, S5, or S6 streams where it is *practicable* to do so; and

5. will, within 12 months of the conclusion of harvesting within a riparian management zone that is within a *cutblock* to which this *FSP* applies, remove logging related debris that has been introduced to the stream channel of a S4, S5, S6 or *S6L* stream where that debris will have a material adverse effect on stream channel stability.

**Table 5.5.1 Lake Class Riparian Zones**

| Riparian Class | RMA width (m) | RRZ width (m) | RMZ width (m) |
|---|---|---|---|
| L1-A lake | 0 | 0 | 0 |
| L1-B lake | 30 | 10 | 20 |
| L2 lake | 30 | 10 | 20 |
| L3 lake | 30 | 0 | 30 |
| L4 lake | 30 | 0 | 30 |

## 5.6 Retention of Trees in a Riparian Management Zone

| **Source of Regulation:** *FPPR* section 12(3) |
|---|
| Despite section 12.1(2) and (6), a person who prepares a forest stewardship plan must specify in it, for the objective set out in section 8, a result or strategy that addresses retention of trees in a riparian management zone. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.6.1 Definitions

For the purposes of this result or strategy:

**"*RMZ affected area*"** means the area of riparian management zone contained within a *cutblock* to which this *FSP* applies.

**"*RMZ retained basal area equivalency*"** or **"*RMZ RBAE*"** means, for an RMZ that has been partial cut, the proportion of RMZ tree basal area retained that is equivalent to RMZ area, determined from the following equation:

$$\textit{RMZ RBAE} = \frac{\text{basal area/ha of trees retained trees in the RMZ}}{\text{basal area/ha of RMZ}} \times \text{RMZ harvest area}$$

**"*RMZ retention*"** means the treed proportion of the *RMZ affected area* retained at the conclusion of harvesting based on a combination of RMZ area reserved from harvest and *RMZ RBAE*, determined from the following equation:

$$\% = \frac{\text{(RMZ area reserved from harvest)} + (\textit{RMZ RBAE})}{\textit{RMZ affected area}} \times 100$$

### 5.6.2 Result or Strategy for Retention of Trees in a Riparian Management Zone

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary

In relation to the objectives set by *government* for retention of trees in a riparian management zone, the *FSP holder* will, at the conclusion of harvesting within a riparian management zone that is within a *cutblock*

to which this *FSP* applies, not cause *RMZ retention* to be less than specified in Table 5.6.2, unless the harvesting is conducted:

1. to recover a tree that has been windthrown or has been damaged by fire, insects, disease or other causes, if the recovery of the tree will not have a material adverse impact on the riparian management zone; or
2. with a harvest system that is other than ground-based, and the use of a ground-based harvest system is not *practicable* due to terrain constraints; and
3. the *FSP holder* ensures that the *RMZ retention* specified in Table 5.6.2 is reduced only to the extent necessary to recover the windthrown or damaged tree or conduct the non-ground-based harvesting.

**Table 5.6.2 Riparian Management Zone Tree Retention**

| Riparian Class | RMA width (m) | RRZ width (m) | RMZ width (m) | *RMZ Retention (%)* |
|---|---|---|---|---|
| S1-A Stream | 100 | 0 | 100 | **50** |
| S1-B stream | 70 | 50 | 20 | **50** |
| S2 stream | 50 | 30 | 20 | **20** |
| S3 stream | 40 | 20 | 20 | **20** |
| S4 stream (fish bearing) | 30 | 0 | 30 | **30** |
| S4 stream (non-fish bearing) | 30 | 0 | 30 | **30** |
| S5 stream | 30 | 0 | 30 | **30** |
| *S6L* stream | 20 | 0 | 20 | **20** |
| S6 stream | 20 | 0 | 20 | **>0** |
| L1-A lake | 0 | 0 | 0 | **N/A** |
| L1-B lake | 30 | 10 | 20 | **100** |
| L2 lake | 30 | 10 | 20 | **20** |
| L3 lake | 30 | 0 | 30 | **20** |
| L4 lake | 30 | 0 | 30 | **20** |
| W1 wetland | 50 | 10 | 40 | **20** |
| W2 wetland | 30 | 10 | 20 | **20** |
| W3 wetland | 30 | 0 | 30 | **20** |
| W4 wetland | 30 | 0 | 30 | **20** |
| W5 wetland | 50 | 10 | 40 | **20** |

## 5.7 ***OSLRMP LUO* Enhanced Riparian Management Zone Retention**

| **Source of Objective:** *OSLRMP LUO* Objective 10c, Map 10 |
|---|
| During primary forest activities, including sanitation and salvage activities, to provide for the conservation of water, fish, wildlife, and biodiversity associated with streams by maintaining<br>(ii) an enhanced level of riparian management zone retention. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.7.1 Definitions

For the purpose of this result or strategy:

**"*enhanced RMZ retention*"** means the *RMZ retention* prescribed in Table 5.7.2 for each applicable stream riparian class, to achieve consistency with the objective.

### 5.7.2 Result or Strategy for *OSLRMP LUO* Enhanced Riparian Management Zone Retention

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the objective set by *government* to provide for the conservation of water, fish, wildlife, and biodiversity associated with streams by maintaining an enhanced level of riparian management zone

retention, at the conclusion of harvesting a *cutblock* to which this *FSP* applies that includes a stream riparian management zone, the *FSP holder* will not cause *enhanced RMZ retention* to be less than specified in Table 5.7.2, unless the harvesting is conducted:

1. to recover a tree that has been windthrown or has been damaged by fire, insects, disease or other causes, if the recovery of the tree will not have a material adverse impact on the riparian management zone; or
2. with a harvest system that other than ground-based, and the use of a ground-based harvest system is not *practicable* due to terrain constraints; and
3. the *FSP holder* ensures that the *RMZ retention* specified in Table 5.7.2 is reduced only to the extent necessary to construct the *road*, recover the windthrown or damaged tree, or conduct the non-ground based harvesting.

**Table 5.7.2 *OSLRMP LUO* Enhanced Riparian Management Zone Tree Retention**

| Riparian Class | *Enhanced RMZ Retention (%)* |
|---|---|
| S1-A Stream | **50** |
| S1-B stream | **50** |
| S2 stream | **50** |
| S3 stream | **50** |
| S4 stream (fish bearing) | **30** |
| S4 stream (non-fish bearing) | **30** |
| S5 stream | **50** |
| *S6L* stream | **50** |
| S6 stream | **>0** |

## 5.8 *OSLRMP LUO* Enhanced Riparian Reserves

| **Source of Objective:** *OSLRMP LUO* Objective 10c, Map 10 |
|---|
| During primary forest activities, including sanitation and salvage activities, to provide for the conservation of water, fish, wildlife, and biodiversity associated with streams by maintaining<br>(i) enhanced riparian reserves over a total of 10,000 hectares of timber harvesting land base |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.8.1 Definitions

For the purpose of this result or strategy:

**"*enhanced riparian reserve*"** or **"*ERR*"**, means a minimum 0.1-hectare reserve within the *THLB*, identified and tracked internally by the *FSP holder*, and supplemental to the statutory reserves specified under *FPPR*, that:

a) is within the riparian management zone of a stream; or
b) is contiguous with a riparian management zone of a stream.

### 5.8.2 Result or Strategy for *OSLRMP LUO* Enhanced Riparian Reserves

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the objective set by *government* to provide for the conservation of water, fish, wildlife, and biodiversity associated with streams by maintaining an enhanced level of riparian reserves, at the conclusion of harvesting a *cutblock* the *FSP holder* will not cause there to be less than:

a) 3114 hectares of *ERR* identified for Tolko in *FDU* #3-Okanagan;
b) 1057 hectares of *ERR* identified for Tolko in *FDU* #4-TFL 49; and
c) 157 hectares of *ERR* for Stella-Jones in *FDU* #3-Okanagan.

## 5.9 *KHLPO* Riparian Management Areas and Inland Fisheries

| **Source of Objective:** *KHLPO* section 2.1.2.1 Riparian Management Areas |
|---|
| Manage riparian areas, including streams, wetlands and lakes in accordance with the Forest Planning and Practices Regulation and the Kamloops and Clearwater District Lakeshore Management Guidelines or other applicable management tools or agency agreements. |
| **Source of Objective:** *KHLPO* section 2.1.5 Inland Fisheries |
| Maintain a mosaic of angling opportunities within the recreational spectrum (i.e. walk-in lakes, drive-to lakes, trophy lakes). |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.9.1 Result or Strategy for *KHLPO* Riparian Management Areas and Inland Fisheries

Applicable *FDU*s: #1-Kamloops

In relation to the objective set by *government* for Riparian Management Areas and Inland Fisheries, the *FSP holder* will:

1. not construct new *road* within 200 metres (slope distance) of a L1, L2 or L3 lake, unless no *practicable* alternative *road* location exists;
2. if the *FSP holder* constructs a new *road* within 200 metres (slope distance) of a L1, L2 or L3 lake restrict access to that *road* to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the conclusion of *initial silviculture activities* on the *cutblock* accessed by that *road*, where use of that *road* beyond the *cutblock* accessed by that *road* is not required by the *FSP holder* within two years following the conclusion of *initial silviculture activities* on that *cutblock*; and
3. ensure harvesting and *road* construction is consistent with results or strategies specified in:
    a) Paragraph 5.6.2 [Result or Strategy for Retention of Trees in a Riparian Management Zone];
    b) Paragraph 5.19 [Visual Quality]; and
    c) Paragraph 5.15.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].

## 5.10 *KHLPO* Water Management

| **Source of Objective:** *KHLPO* 2.1.2 |
|---|
| The objective set by *government* for water management is to ensure implementation of a referral process to notify all potentially impacted water *licence*es when development is proposed. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.10.1 Definitions

For the purposes of this result or strategy:

**"*water licence*"** means a *licence* issued under the *Water Sustainability Act* or a former water *licence* related Act not less than 4 months prior to cutting authority application or amendment. Water *licence* spatial and attribute data is housed in the BC Geographic Warehouse.

**"*point of diversion*"** means the location where water is legally diverted for the purpose specified in a *water licence*.

**"*water management mitigation strategy*"** means a plan developed by a *qualified professional* in order to mitigate potential impacts to a *water licence* that are related to harvesting and *road* construction and identified by a *water licence* holder. The strategy specifies:

a) what actions are to be undertaken;
b) who is responsible for undertaking the actions;
c) where the actions will occur; and
d) when the actions will be completed.

#### 5.10.1.1 Result or Strategy for *KHLPO* Water Management

Applicable *FDU*s: #1-Kamloops

In relation to the objective set by *government* for water management, where the *FSP holder* proposes *cutblock* harvesting or *road* construction that is within the catchment area of an S3, S4, S5 or S6 stream upon which a *point of diversion* is established, and that proposed *cutblock* harvesting or *road* construction is located less than two kilometres (horizontal distance) upstream of that *point of diversion,* the *FSP holder* will:

1. prior to harvesting the *cutblock* or constructing the *road*:
    a) refer the proposed *cutblock* harvesting or *road* construction activities to the holder of the *water licence* associated with the *point of diversion*, requesting that the *water licence* holder identify concerns about their *water licence* that may be related to the activities;
    b) where the *water licence* holder responds within the *timeline* specified in the referral and identifies concerns, ensure that a *water management mitigation strategy* is developed that addresses the concerns of the *water licence* holder to the extent that it is *practicable* to do so;
    c) communicate the *water management mitigation strategy* to the *water licence* holder; and
2. conduct harvesting or *road* construction consistent with the *water management mitigation strategy*.

## 5.11 *KBHLPO* Consumptive Use of Streams

| **Source of Objective:** KBHLP Order, Objective 6 |
|---|
| To reduce the impacts of forest development on streams licensed for human consumption. |
| **Applicable *FDU*s: #5-Arrow, #6-Boundary** |

### 5.11.1 Definitions

For the purposes of this result or strategy:

**"*water licence*"** means a *licence* issued under the *Water Sustainability Act* or a former water *licence* related Act that authorizes the diversion and use of water for the purpose of domestic consumption and was issued not less than 4 months prior to cutting authority application or amendment. Water *licence* spatial and attribute data is housed in the BC Geographic Warehouse.

**"*point of diversion*"** means the location where water is legally diverted for the purpose of domestic consumption, as authorized in a *water licence*.

**"*stream side management provisions*"** are as defined in *KBHLPO* Objective 6 (1)(a).

**"*stream side management zone*"** as defined in *KBHLPO* Objective 6 means "…from the edge of the stream channel bank or the outer edge of the active floodplain, to a minimum distance of 30 metres on each side of the stream, or to the top of the inner gorge, whichever is greater".

### 5.11.2 Result or Strategy for *KBHLPO* Consumptive Use of Streams

Applicable *FDU*s: #5-Arrow, #6-Boundary

In relation to the objective set by *government* for consumptive use of streams, where the *FSP holder* proposes harvesting or *road* construction that is within the *stream side management zone* of a S5 or S6 stream where the *stream side management provisions* of *KBHLPO* Objective 6 apply*,* the *FSP holder* will:

1. comply with *KBHLPO* Objective 6;
2. comply with *FPPR* sections 59 [Protecting Water Quality], and 60(1) [*Licence*d Waterworks];
3. prior to harvesting a cutblock or constructing a road within that *stream side management zone*, provide a referral letter to licensed domestic water users who have a water intake within that *stream side management zone.* The referral will include a description of the proposed harvesting and/or road construction activities and provide a *timeline* for review and comment;
4. not construct a *road* within that *stream side management zone* unless one of the following applies:
    a) locating the *road* outside the riparian management area would create a higher risk of sediment delivery to the stream;
    b) there is no other *practicable* option for locating the *road*; or
    c) the *road* is required as part of a stream crossing; and
5. conduct *cutblock* harvesting and *road* construction consistent with:
    a) *FSP* section 5.5.1[Result or Strategy for Water, Fish, Wildlife and Biodiversity Within Riparian Areas]; and
    b) *FSP* section 5.6.2 [Result or Strategy for Retention of Trees in a Riparian Management Zone].

## 5.12 Fisheries Sensitive Watersheds

| |
|---|
| **Source of Objectives:**<br>Two Orders given under *Government* Actions Regulation sections 14(1) and 14(2):<br>Order – Fisheries Sensitive Watershed – Thompson Rivers Forest District dated March 27, 2018<br>Order – Fisheries Sensitive Watershed – Cascades Forest District dated March 27, 2018 |
| For the Fisheries Sensitive Watersheds identified by these Orders, the objectives are:<br>(i) Maintain channel stability and riparian function by retaining and protecting all mature timber and/or other natural vegetation on all active fluvial units on: fish streams; and streams that are a direct tributary to fish streams.<br>(ii) Minimize adverse sediment related effects to fish and fish streams by maintaining a very low likelihood of harmful sediment delivery from un-natural sediment sources to: fish streams; and streams that are a direct tributary to fish streams.<br>(iii) To protect the quantity and timing of annual and seasonal flows establish and maintain a sustainable rate of cut for the fisheries sensitive watershed and/or specified basins, that does not exceed 25% Equivalent Clearcut Area (ECA) above the snowline; with forest harvesting distributed by aspect sub-basin and elevation where possible. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt** |
| **Source of Objectives:**<br>Two Orders given under Government Actions Regulation sections 14(1) and 14(2):<br>Order – Fisheries Sensitive Watersheds – Thompson Region dated March 28, 2007<br>Order – Fisheries Sensitive Watersheds – Okanagan Region dated March 28, 2007 |
| For each Fisheries Sensitive Watershed identified by the Orders, the objective set by *government* is to:<br>(i) Conserve the natural hydrologic conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed,<br>(ii) Conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and<br>(iii) Prevent the cumulative hydrological effects of primary forest activities in the Fisheries Sensitive Watershed from resulting in a material impact on the fish habitat in the watershed. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.12.1 Definitions

For the purposes of this result or strategy:

**"*fisheries sensitive watershed*"** means areas identified under *GAR* Order–Fisheries Sensitive Watersheds–Thompson Region dated March 28, 2007, and *GAR* Order–Fisheries Sensitive Watersheds–Okanagan Region dated March 28, 2007.

**"*fisheries sensitive watershed assessment*"** means a *qualified professional* assessment of a *fisheries sensitive watershed* that:

1. Includes a review of the:
    a) effects of existing and proposed human activities (including *established cutblocks* and *established roads*) on the watershed characteristics and hydrological processes that affect the generation of stream flow; and
    b) rates of hydrologic recovery within the watershed;
2. identifies the potential for *primary forest activities* to result in a material impact to:
    a) natural hydrologic conditions, natural stream bed dynamics, and integrity of stream channels;
    b) quality, quantity and timing of water flows required by fish; and
    c) fish habitat;
3. includes recommendations to mitigate potential material impacts identified in part 2 of the definition; and
4. where it relates to an existing assessment, is considered relevant if a *qualified professional* determines that the assessment recommendations continue to be valid.

### 5.12.2 Result or Strategy for Fisheries Sensitive Watersheds

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the objective set by *government* for *fisheries sensitive watersheds* established in the identified Orders, for the portions of *FDU*'s #3 and #4 that fall within a *fisheries sensitive watershed,* the *FSP holder*:

1. adopts *FPPR* sections 55 [Stream crossings], 56 [Fish passage], and 57 [Protection of fish and fish habitat] as those sections were on the *legislated planning date* of this *FSP,* consistent with the conditional exemptions provided by *FPPR* section 12.31;
2. will ensure that, prior to harvesting a *cutblock* or constructing a *road* within a *fisheries sensitive watershed*:
    a) a *fisheries sensitive watershed assessment* has been completed for that *fisheries sensitive watershed*;
    b) the assessment is considered relevant; and
3. will conduct *cutblock* harvesting and *road* construction consistent with the recommendations of the *fisheries sensitive watershed assessment*.

### 5.12.3 Definitions for FDUs 1 and 2

For the purposes of the fisheries sensitive watershed results or strategies the following definitions apply. Terminology as defined in the Order apply to these result or strategies unless otherwise defined below.

**"*Order*"** means either "Order – Fisheries Sensitive Watershed, Thompson Rivers Forest District", or "Order – Fisheries Sensitive Watershed, Cascades Forest District", both given under authority of sections 14(1) and 14(2) of the Government Actions Regulation, dated March 27, 2018, and effective April 13, 2018.

**"*fisheries sensitive watershed*"** means a watershed identified in the *Order* in "Table 1 – Fisheries Sensitive Watersheds Established by this Order".

"***applicable fisheries sensitive watersheds***" means, for the purposes of *Order* Objective 1c., those watersheds, basins or residuals where a maximum *ECA* of 25% has been specified in Schedule B, Table 2 of the *Order*.

"***active fluvial unit***" or "***AFU***", as defined in the Order, means "that portion of a floodplain over which water can be expected to flow during a runoff event of magnitude 1 in 100 years, and that portion of an *AFU* on which there is evidence of hydro-geomorphic processes, active within at least one full rotation".

**"*direct tributary*"** means a stream channel that has the ability to transport sediment to downstream fish-bearing waters as a result of stream power and physical connection.

"***relevant active fluvial unit***" means an *active fluvial unit* that is relevant to the *Order*, due to its location:

a) within a fisheries sensitive watershed; and
b) on a fish stream; or
c) a stream that is a *direct tributary* to a fish stream.

"***active fluvial unit assessment***" means an assessment conducted by a *qualified professional* on a *relevant active fluvial unit* that is located within a proposed *cutblock*; or that crosses or is *adjacent* to a proposed new road, which specifies, where applicable, recommendations for:

a) mature tree and/or other natural vegetation retention within that portion of a *relevant active fluvial unit* that is located within that *cutblock*; and
b) the location, construction, maintenance, and deactivation phases of the section of the proposed new road that crosses or is *adjacent* to the *relevant active fluvial unit,*

in order to ensure, to the extent it is practicable to do so, that stream channel stability and riparian function are maintained.

"***sediment mitigation assessment***" means an assessment conducted by a *qualified professional*, of a road or cutblock that crosses, contains, or is *adjacent* to a fish stream or *direct tributary,* that:

a) identifies existing or potential sediment generation and delivery zones which may be affected by or result from primary forest activities in that cutblock or along that road; and
b) specifies recommendations or measures to mitigate potentially adverse sediment-related effects to fish and fish streams that may be the result of un-natural sediment delivery associated with those primary forest activities.

"***adjacent***" A fish stream or direct tributary will be considered *adjacent* to a cutblock or road when a qualified professional determines that the fish stream or direct tributary could be directly impacted by primary forest activities due to the cutblock or road location.

"***equivalent clearcut area***" or "***ECA***", as defined in the *Order* "refers to the area of forest that has been disturbed (e.g., harvested, affected by insects, cleared or burned, with consideration given to the silvicultural system, regeneration, and location of forest stands within a watershed). *ECA* is an indicator used to measure the relative loss and recovery of hydrologic function of a forest canopy".

A *qualified professional* will specify the process and assumptions used in the *ECA* calculation.

"***sustainable rate-of-cut***" or "***SRC"***, as defined in the *Order* "refers to a non-declining average annual rate of merchantable forest cover removal or alteration by primary forest activities and/or other land-use activities within the forest land base of the FSW. The *sustainable rate-of-cut* for the watershed and its basins must consider disturbances resulting from primary forest activities, natural events (wildfire, insects, pathogens etc…), and other land use activities, including disturbance on private land".

In any given year the actual harvest can exceed the *SRC* as long as the running average over a 10-year time period is maintained by balancing high levels of annual harvest with years of little or no harvest.

A *qualified professional* will specify the process and assumptions used in the *sustainable rate-of-cut* calculation.

### 5.12.4 Result or Strategy for Fisheries Sensitive Watersheds in FDUs 1 and 2 – maintenance of channel stability and riparian function

Applicable *FDUs*: #1 Kamloops, #2 Merritt

For objective 1a of the *fisheries sensitive watershed Order*, to "maintain channel stability and riparian function" in *fisheries sensitive watersheds* the *FSP holder* will ensure that:

1. prior to conducting a primary forest activity within a cutblock or along a road to which this *FSP* applies, that is located within a *fisheries sensitive watershed*:
    a) a *qualified professional* assesses that *cutblock* and road location for the presence of a *relevant active fluvial unit*;
    b) *where a relevant active fluvial unit* is identified within that *cutblock* or along that road location, an *active fluvial unit assessment* is completed; and
2. the primary forest activity is conducted consistent with the recommendations of the *active fluvial unit assessment.*

### 5.12.5 Result or Strategy for Fisheries Sensitive Watersheds in FDUs 1 and 2 – minimizing adverse sediment related effects to fish and fish streams

Applicable *FDUs*: #1 Kamloops, #2 Merritt

For objective 1b of the *fisheries sensitive watershed Order*, to "minimize adverse sediment related effects to fish and fish streams", the *FSP holder* will ensure that:

1. prior to conducting a primary forest activity within a cutblock or along a road location to which this *FSP* applies, that is located within a *fisheries sensitive watershed*:
    a) a *qualified professional* assesses that cutblock or road location for the presence of a fish stream or a stream that is a *direct tributary* to a fish stream*;*
    b) a *sediment mitigation assessment* is completed where a fish stream or stream that is a *direct tributary* to a fish stream:
        (i) is crossed by or *adjacent* to that *road*; or
        (ii) within or *adjacent* to that cutblock; and
2. the primary forest activity within that cutblock or along that road is conducted consistent with the recommendations of the *sediment mitigation assessment.*

### 5.12.6 Result or Strategy for Fisheries Sensitive Watersheds in FDUs 1 and 2 – to protect the quantity and timing of annual and seasonal flows

Applicable *FDUs*: #1 Kamloops, #2 Merritt

For objective 1c of the *fisheries sensitive watershed Order*, "to protect the quantity and timing of annual and seasonal flows" within *applicable fisheries sensitive watersheds*, the FSP holder will:

1. ensure that:
    a) prior to harvesting a cutblock or constructing a road to which this FSP applies, that is located within an *applicable fisheries sensitive watershed*:
        (i) the *ECA* above snowline of that *applicable fisheries sensitive watershed* is calculated; and,
        (ii) a *sustainable rate-of-cut* is determined;
    b) cutblock harvesting to which this FSP applies, that is located within that *applicable fisheries sensitive watershed* is:
        (i) conducted consistent with the calculated *sustainable rate-of-cut*; and
        (ii) distributed by aspect, sub-basin, and elevation, where practicable;
2. not cause the *ECA* above snowline to exceed 25%.

## 5.13 Water in Community Watersheds

| **Source of Objective:** *FPPR* section 8.2 |
|---|
| The objective set by *government* for water being diverted for human consumption through a *licenced* waterworks in a community watershed is to prevent to the extent described in subsection (3) the cumulative hydrological effects of primary forest activities within the community watershed from resulting in<br>(a) a material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks, or<br>(b) the water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under<br>(i) an enactment, or<br>(ii) the *licence* pertaining to the waterworks. |
| **Applicable *FDU*'s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.13.1 Definitions

For the purposes of this result or strategy:

**"*community watershed*"** has the meaning given to it in *FPPR* section 8.2(1) and contains a *licence*d waterworks through which water is being diverted for human consumption.

**"*community watershed assessment*"** means a *qualified professional* assessment of a community watershed that:

1. includes a review of the:
    a) effects of existing and proposed human activities (including *established cutblocks* and *established roads*) on the watershed characteristics and hydrological processes that affect the generation of stream flow;
    b) rates of hydrologic recovery within the watershed; and
    c) waterworks infrastructure.
2. identifies the potential for *primary forest activities* to result in:
    a) a material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks; and
    b) the water from the waterworks having a material adverse impact on human health that cannot be addressed by required water treatment required under an enactment or the *licence* pertaining to the waterworks;
3. includes recommendations to mitigate potential material adverse impacts identified in part 2 of this definition; and
4. where it relates to an existing assessment, is considered relevant if a *qualified professional* determines that the assessment recommendations continue to be valid.

### 5.13.2 Result or Strategy for Water in Community Watersheds

Applicable *FDU*'s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary

In relation to the objective for water in community watersheds, that is set out in section 8.2 of the *FPPR*, for the portions of all *FDU*'s that fall within a *community watershed*, the *FSP holder*:

1. adopts *FPPR* sections 59 [Protecting Water Quality], 60(2) [*Licence*d Waterworks], and 61 [Excavated or Bladed Trails], as those sections were on the *legislated planning date* of this *FSP*, consistent with conditional exemptions provided by *FPPR* section 12.32;
2. will ensure that, prior to harvesting a *cutblock* or constructing a *road* within a *community watershed*:
    a) a *community watershed assessment* has been completed for that *community* watershed;
    b) the assessment is considered relevant; and
3. will conduct harvesting and *road* construction consistent with the recommendations of the *community watershed assessment*.

## 5.14 Wildlife and Biodiversity – Landscape Level

| **Source of Objective:** *FPPR* section 9 |
|---|
| The objective set by *government* for wildlife and biodiversity at the landscape level is, to the extent *practicable*, to design areas on which timber harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |
| **Source of Objective:** *KBHLPO* Objective 4 |
| To provide for more cost-effective timber harvesting based on section 68(4) of the Operational Planning Regulation (OPR), establish the green-up *height* as 2.5 metres for areas adequately stocked and 3.0 metres for areas not adequately stocked, based on the criteria in the regulations, except in:<br>i. community watersheds;<br>ii. visually sensitive areas to be defined and determined by the District Manager, Ministry of Forests (MOF), within known *scenic areas* as identified in objective 9;<br>iii. Enhanced Resource Development Zones - Timber as identified in objective 7and<br>iv. the specified fire-maintained ecosystems as identified in objective 8(d). |
| **Applicable *FDU*s: #5-Arrow, #6-Boundary** |
| **Source of Objective:** *KBHLPO* Objective 7 (2) |
| Pursuant to section 68(4) of the OPR, the green-up *height* for ERDZ-T's as shown on Map 7.1 is established as successful regeneration of *cutblock*s provided this is consistent with any landscape unit patch size objectives that are established for any landscape unit that incorporates the ERDZ-T. |
| **Applicable *FDU*s: #5-Arrow, #6-Boundary** |

### 5.14.1 Definitions

For the purposes of this result or strategy:

"**existing cutblock**" as defined in *FPPR* section 65(1) "means a cutblock that was previously harvested under an agreement other than a minor tenure";

"**new cutblock**" as defined in *FPPR* section 65(1) "means a cutblock on which harvesting has not yet started and that is *adjacent* to an existing cutblock";

"**non-conforming portion**" means an area within an existing cutblock for which the stocking and height requirements of paragraph 5.14.2 (3) have not been met.

### 5.14.2 Result or Strategy for Wildlife and Biodiversity – Landscape Level

Applicable FDU's: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary

In relation to the objective for wildlife and biodiversity at the landscape level that is set out in *FPPR* Section 9, *KBHLPO* Objective 4, and *KBHLPO* Objective 7(2), and consistent with the exemption provided by *FPPR* sections 12.4(1) and (2), the *FSP holder*:

1. adopts as a result *FPPR* section 64(1) [*Maximum cutblock size*] as that section was on the *legislated planning date* of this *FSP*;
2. will not harvest timber on a *new cutblock* unless:
    a) all *existing cutblocks* that are *adjacent* to the *new cutblock* meet the requirements set out in subsection 3, or

b) the combined area of the *new cutblock* and any non-conforming portions that are immediately *adjacent* to the *new cutblock* does not exceed the requirements relating to cutblock size set out in *FPPR* section 64(1) [*maximum cutblock size*];

3. for the purpose of subsection 2(a), an *existing cutblock* must meet the criteria set out in one of the following paragraphs:
    a) at least 75% of the net area to be reforested of the *existing cutblock* is stocked such that the average height of the tallest 10% of the trees on the area is the minimum height established in Table 5.14.2, and
        (i) is stocked in accordance with the applicable stocking standards for that *cutblock*, as described in Part 7 of this *FSP*; or
        (ii) stocked with at least 700 trees per hectare of a commercially valuable species that are at least 1.3 metres in height;
    *b)* the part of the net area to be reforested of the *existing cutblock* that is closest to the *new cutblock*
        (i) must be at least half of the net area to be reforested,
        (ii) is stocked such that the average height of the tallest 10% of the trees on the area is the minimum height established in Table 5.14.2;
        (iii) is stocked
            A. in accordance with the applicable stocking standards for that *cutblock*, as described in Part 7 of this *FSP*, or
            B. with at least 700 trees/ha of a commercially valuable species that are at least 1.3 m in height; and
4. Subparagraph 2 does not apply if *FPPR* sections 64 (2), (3) or (4) (as those sections were on the *legislated planning date* of this *FSP)*, apply to the *new cutblock*.

| **Table 5.14.2 Green-Up *Height*s** | |
|---|---|
| *FDU* | Tree *height* to replace *FPPR* section 65(3)(a) 3m *height* |
| #1-Kamloops | 3 metres |
| #2-Merritt | 3 metres |
| #3-Okanagan | 2 metres, as specified in the District Manager letter of September 26, 2001 entitled “Re: 2 metre Green-up *height*”. |
| #4-TFL 49 | 2 metres, as specified in the District Manager letter of September 26, 2001 entitled “Re: 2 metre Green-up *height*”. |
| #5-Arrow, #6-Boundary, within ERDZ-Timber | The *height* of successful regeneration for areas adequately stocked, as specified in *KBHLPO* Part 2, Objective 7. |
| #5-Arrow, #6-Boundary, within *scenic areas* and Community Watersheds and Connectivity Corridors | 3 metres, as specified in *KBHLPO* Part 2, Objective 4(1). |
| #5-Arrow, #6 Boundary, excluding ERDZ-Timber, scenic areas, and Connectivity Corridors | 2.5 metres, as specified in *KBHLPO* Part 2, Objective 4(1). |

## 5.15 Wildlife and Biodiversity – Stand Level

| **Source of Objective:** *FPPR* section 9.1 |
|---|
| The objective set by *government* for wildlife and biodiversity at the stand level is to retain wildlife trees. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.15.1 Definitions

For the purposes of this result or strategy:

**“*block area*”** means the net area to be reforested of a *cutblock* combined with the area occupied by proposed permanent access structures within a *cutblock*.

**"*wildlife tree*"** as defined in *FPPR* section 1 means "…a tree or group of trees that (a) provide wildlife habitat, and (b) assist in the conservation of stand level biodiversity".
**"*wildlife tree retention area*"** or **"*WTRa*"** as defined in *FPPR* section 1 means" an area occupied by *wildlife trees* that is located

a) in a *cutblock*,
b) in an area that is contiguous to a *cutblock*, or
c) in an area that is sufficiently close to the *cutblock* that the *wildlife trees* could directly impact on, or be directly impacted by, a forest practice carried out in the *cutblock*".

**"*wildlife tree retained basal area equivalency*"** or **"*WTRBAE*"** means the equivalent area of individual, clumps or groups of *wildlife trees* retained within a *cutblock*, determined by the following equation:

$$WTRBAE = \frac{\text{basal area/ha of individual retained } \textit{wildlife trees}}{\text{basal area/ha of block}} \times \textit{block area}$$

**"*wildlife tree retention*"** or **"*WTR*"** means the proportion of *block area* retained as *wildlife trees* at the conclusion of harvesting, based on a combination of distinct *WTRa* reserved from harvest and *WTRBAE*, determined from the following equation:

$$WTR\ \% = \frac{(\textit{WTRa} \text{ reserved from harvest}) + (\textit{WTRBAE})}{\textit{block area}} \times 100$$

**"equivalent"** means equal to or better than, assessed by a *qualified professional* and based upon the following factors:

a) total area;
b) number of trees;
c) species composition;
d) habitat values; and
e) mature or old seral attributes.

"***rendered ineffective***", as determined and documented by a *qualified professional*, means a *WTRa* that has been impacted to such a degree by a disturbance that it no longer:

a) exhibits attributes consistent with a mature or old seral condition; or
b) provides the necessary attributes to fulfill the original intent of the *WTRA* or WTP (if known).

### 5.15.2 Result or Strategy for Wildlife and Biodiversity – Stand Level

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objectives set by *government* for wildlife and biodiversity at the stand level set out in section 9.1 of the *FPPR* and consistent with *FPPR* section 12.5(1), which provides for a conditional exemption from *FPPR* section 66, where the *FSP holder* harvests timber on a *cutblock* to which this *FSP* applies, the *FSP holder* will ensure that:

1. at the conclusion of harvesting all *cutblock*s within a cutting permit, the *wildlife tree retention* that relates to the cutting permit will be not less than 7% of the total *block area* of the *cutblock*s within that cutting permit;
2. at the conclusion of harvesting a *cutblock*, the *wildlife tree retention* that relates to that *cutblock* will be not less than 3.5%; and
3. for the purposes of subsection (1) and (2), a *wildlife tree retention area* may relate to more than one *cutblock* if all of the *cutblock*s that relate to the *wildlife tree retention area* collectively meet the applicable requirements of this section.

### 5.15.3 Result or Strategy for Restrictions on Harvesting Wildlife Tree Retention

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objectives set by *government* for wildlife and biodiversity at the stand level set out in *FPPR* section 9.1, and consistent with *FPPR* section 12.5(2), which provides for a conditional exemption from *FPPR* section 67 [Restriction on harvesting], the *FSP holder* will:

1. not harvest *wildlife tree retention* unless:
    a) the trees on the net area to be reforested of the *cutblock* to which the *WTRa* relates have developed attributes consistent with a mature seral condition;

b) the harvesting is conducted for one or more of the following purposes, and is limited to the extent necessary to accommodate the purpose:
    (i) to provide for guyline clearance and tailhold anchors, where no alternative *practicable* option for locating a guyline or tailhold anchor exists;
    (ii) to provide *road* access where no alternative *practicable* option for *road* location exists;
    (iii) to maintain a *road*;
    (iv) only within FDU #6:
        A. to salvage timber that is windthrown or damaged by fire, insects, disease or other causes, such that the WTRa associated with that timber is *rendered ineffective*; or
        B. to provide for designated skid trails or yarding corridors, where no alternative *practicable* option for locating these features exists; and

2. where the *FSP holder* harvests an area within a *WTRa* for a purpose described in subsection 1b), and that harvest area is 0.1 ha or greater, prior to completing harvest on that *WTRa*, ensure that a *qualified professional* identifies in a Site Plan one or more replacement *WTRa* that is *equivalent* to the portion of the *wildlife tree retention area* from which the timber is being harvested.

## 5.16 Old Growth Management

### 5.16.1 *KLRMP* Area Old Growth Management Areas

**Source of Objectives:** *Land Act* section 93.4 Ministerial Order, *Old Growth Management Objectives for the Kamloops LRMP Area,* dated March 5, 2013

The objectives set by *government* for Old Growth Management are:

1. Conserve biodiversity by retaining old forest values and attributes, or rare features within *OGMA*s across the landscape over time.
2. Maintain all timber within *OGMA*s except as required to accommodate the following purposes:
    a) to prevent the spread of insect infestation or disease that pose a significant threat to *forested area*s external to the *OGMA*;
    b) to address *safety hazards* associated with primary forest activities;
    c) to provide for guyline clearance and tailhold anchors;
    d) to address fuel management concerns and related *safety hazards*;
    e) to provide *road* access where no alternative *practicable* option for *road* location exists; or
    f) to facilitate timber harvesting that will result in operationally *practicable cutblock* boundaries.
3. Primary forest activities conducted for the purposes under Objective #2 must:
    a) be conducted to the minimum extent necessary to accommodate the purpose; and
    b) not exceed the lesser of two hectares or 10% of an individual *OGMA* polygon per 20-year timeframe.

**Applicable *FDU*: #1-Kamloops**

#### 5.16.1.1 Definitions

For the purpose of this result or strategy:
**"*Order*"** means *Land Act* section 93.4 Ministerial Order, *Old Growth Management Objectives for the Kamloops LRMP Area,* dated March 5, 2013.

#### 5.16.1.2 Result or Strategy for *KLRMP* Area Old Growth Management Areas

Applicable *FDU*: #1-Kamloops
In relation to the objectives set by *government* for Old Growth Management Areas, the *FSP holder* will conduct *primary forest activities* consistent with the objectives of the *Order*.

### 5.16.2 Biodiversity Emphasis

**Source of Objective:** *FPC* section 4 Order, *Order Establishing Provincial Non-Spatial Old Growth Objectives,* effective June 30, 2004.

| |
|---|
| 1. Biodiversity emphasis for landscape units<br>For the purpose of implementing objective 2 below, biodiversity emphasis is assigned as listed in Appendix 1, Table 1.<br>(Note: The objective set by *government* for biodiversity emphasis is required for the purpose of implementing old growth forest objectives in the Order. Biodiversity emphasis is assigned to landscape units as described in the Order). |
| **Applicable *FDU*: #2-Merritt, #3-Okanagan, #4-TFL 49** |
| **Source of Objective:** *KBHLPO*, Part 2, Objective 1 Biodiversity Emphasis |
| 1. Biodiversity Emphasis:<br>To contribute to the conservation of biodiversity, biodiversity emphasis is assigned to each landscape unit defined on Map 1.1 as outlined on Map 1.1.<br>(Note: The objective set by *government* for biodiversity emphasis is required for the purpose of implementing old and mature forest objectives in the Order. Biodiversity emphasis is assigned to landscape units as described in the Order). |
| **Applicable *FDU*: #5-Arrow**, **#6-Boundary** |

### 5.16.2.1 Definitions

For the purpose of this result or strategy:
**"*Order*"** means, in *FDU*'s #2, #3 and #4, *Order Establishing Provincial Non-Spatial Old Growth Objectives,* effective June 30, 2004, and in *FDU* #5 and #6, the *KBHLPO*.

### 5.16.2.2 Result or Strategy for Biodiversity Emphasis

Applicable *FDU*: #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objectives set by *government* for Biodiversity Emphasis, the *FSP holder* will harvest a *cutblock* and construct a *road* within the *FDU*'s indicated only if that *cutblock* harvesting or construction is consistent with the biodiversity emphasis assigned within the applicable *Order*.

## 5.16.3 Non-Spatial Old Growth Objectives

| |
|---|
| **Source of Objective:** *FPC* section 4 Order, *Order Establishing Provincial Non-Spatial Old Growth Objectives,* effective June 30, 2004. |
| The objective set by *government* for Non-Spatial Old Growth Management is to contribute to the conservation of biodiversity, by maintaining old forest to the levels specified in the *Order,* subject to specifications and provisions within the *Order.* |
| **Applicable *FDU*: #2-Merritt, #3-Okanagan, #4-TFL 49** |

### 5.16.3.1 Definitions

For the purposes of this result or strategy:
**"*old growth management area*"** or **"*OGMA"*** means:

a) within *FDU* #2-Merritt, a non-legal area, spatially identified as an *OGMA* to meet the objectives specified in the Order. The *OGMA* source data is depicted on an *OGMA* Consolidated Map and housed by the Ministry responsible for Forests in accordance with the Cascades Forest District Agreement For Managing *OGMA* Consolidation Mapping, as approved by the DOIT committee members on July 15, 2013; and
b) within *FDU*'s #3-Okanagan, and #4-TFL 49, a non-legal area, spatially identified as an *OGMA* to meet the objective specified in the Order. The *OGMA* source data is housed in the BC Geographic Warehouse as "Old Growth Management Areas – Non-Legal". Changes to this data related to incursion and replacement are housed internally by the *holder*.

**"*OGMA consolidated map*"** means the most current depiction of *OGMA* source data. Within *FDU* #2, this information is hosted by the Cascades Forest District and updated from time to time in accordance with the *Cascades Forest District Agreement For Managing OGMA Consolidation Mapping*. Within FDU #3 and FDU #4, this information is hosted by the Okanagan Shuswap Forest District, and updated on an annual basis.
**"*minor OGMA incursion*"** means harvesting within an *OGMA* that does not exceed the lesser of 10 hectares or 10% of an individual *OGMA* polygon, and is conducted:

a) to maintain or construct a *road* where no alternative *practicable* option for *road* location exists; or
b) to facilitate timber harvesting that will result in operationally *practicable cutblock* boundaries in relation to a physical feature or *administrative boundary*.

**"*Order*"** means the *Order Establishing Provincial Non-Spatial Old Growth Objectives,* effective June 30, 2004.

#### 5.16.3.2 Result or Strategy for Non-Spatial Old Growth

Applicable *FDU*: #2-Merritt, #3-Okanagan, #4-TFL 49
In relation to the objectives set by *government* for Non-Spatial Old Growth Management Areas, the *FSP holder* will:

1. not construct a *road* or harvest a *cutblock* within an *OGMA* unless the *road* construction or harvesting qualifies as a *minor OGMA incursion*;
2. if the *FSP holder* constructs a *road* or harvests a *cutblock* within an *OGMA,* and the *minor OGMA incursion* exceeds 1.0 hectares:
    a) prior to reporting the harvest completion of the *cutblock*, the *FSP holder* will identify an area to replace the *minor OGMA incursion* that:
        (i) is the same area or larger than the *minor OGMA incursion*;
        (ii) is within the same landscape unit and *BEC* as the *minor OGMA incursion*;
        (iii) is comprised of *VRI* polygons that are consistent with one of the following:
            A. the age of old forest identified in section 2 of the Order;
            B. section 6 of the Order; or
            C. of equal or greater age class than the *OGMA* to be harvested; and
    b) ensure that the host of the *OGMA consolidated map* is provided with the spatial and attribute data relevant to both the *minor OGMA incursion* and the replacement *OGMA,* within 12 months of the date of the *minor OGMA incursion*.

### 5.16.4 ***KBHLPO* Old and Mature Forests**

| **Source of Objective:** *KBHLPO*, Part 2, Objective 2 and 5(3, 4 and 6) [old within connectivity corridors] |
|---|
| The objective set by *government* for Old and Mature Forest in the KBHLP area is to contribute to the conservation of biodiversity, by maintaining mature and old to the levels specified in the *Order,* subject to specifications and provisions within the *Order.* |
| **Applicable *FDU*: #5-Arrow, #6-Boundary** |

#### 5.16.4.1 Definitions

For the purposes of this result or strategy:
**"*Order*"** means the *KBHLPO*.
**"*old growth management area*"** or **"*OGMA"*** means an area spatially identified as a non-legal *OGMA* in in the BC Geographic Warehouse data layer known as "Old Growth Management Areas - Non-Legal - Current". *OGMAs* are used as surrogates to aspatial *Old* forest targets within the *Order*. The entire area of crown forest land base contained within an OGMA is considered *Old* forest, irrespective of actual stand age.
**"*Mature*"** and "***Old*"** forests have the meanings given to them in *KBHLPO* Objective 2.
**"*minor OGMA incursion*"** means harvesting an area within an *OGMA* that:

a) does not exceed the lesser of 10 hectares or 10% of an individual *OGMA* polygon;
b) does not result in the OGMA being rendered ineffective;
c) within both FDU #5 or FDU#6, is conducted to maintain or construct a *road* where no alternative *practicable* option for *road* location exists; or
d) only within FDU #6, is conducted for one or more of the following purposes (and limited to the extent necessary to accommodate that purpose):
    a. providing for guyline clearance, tailhold anchors, designated skid trails or yarding corridors, where no alternative practicable option for locating these features exists; or
    b. removing timber that is windthrown or damaged by fire, insects, disease or other causes, such that the *OGMA* associated with that timber is rendered ineffective.

"***rendered ineffective***" means an OGMA that has been impacted to such a degree by a disturbance that it no longer exhibits attributes consistent with a mature or old seral condition. A *qualified professional* will consider the factors identified in footnote k of the *Order* to determine where an OGMA has been rendered ineffective and will document the determination.

"***OGMA replacement***" means a forest stand identified and documented by a *qualified professional* as a replacement for a *minor OGMA incursion area*, that is:

a) the same or greater area than the *minor OGMA incursion;*
b) located within the same landscape unit and *BEC* as the *minor OGMA incursion;*
c) consistent with the "Mature" and "Old" forest definitions outlined in *KBHLPO* Table 2.6;
d) selected to provide biological value that is equal to or better than the *minor OGMA incursion*, with consideration given to the factors identified in footnote k of the *Order;*
e) preferentially located within a c*onnectivity corridor*, *ancient forest* or park.

**"*HLPO Reporting Suite*"** or Selkirk Suite means the application, managed by the Selkirk Geospatial Research Centre, that allows users to produce reports which compare the proportion of Old and Mature Forests against targets established in the *KBHLPO*.

"***connectivity corridors***" means those areas identified as connectivity corridors on *KBHLPO* Map 5.2.

"**ancient forest"** means a forest stand identified within the *VRI* or through field assessment as having the following age:

a) >250 years for a stand within a BEC classified as Natural Disturbance Type 3; or
b) >400 years for a stand within a BEC classified as Natural Disturbance Type 1, 2 or 4.

"**recruitment strategy**" means a strategy prepared and documented by a Registered Professional Forester where recruitment is required to meet *Old* and/or *Mature* targets. A recruitment strategy will be:

a) consistent with KBHLPO Objective 2(5);
b) prepared in consideration of the factors identified in footnote k of the *Order*; and
c) shared with licensees with a designated operating area in the subject Landscape Unit.

#### 5.16.4.2 Result or Strategy for *KBHLPO* Old and Mature Forests

Applicable *FDU*: #5-Arrow**,** #6-Boundary

In relation to the objectives set by *government* for Old and Mature Forest in the *KBHLPO* area, for *cutblocks* and *roads* to which this FSP applies that are located within FDU #5 or FDU#6, the *FSP holder* will:

1. prior to applying for authority to harvest that *cutblock* or construct that *road*
    a) review the contemporary report from the *HLPO Reporting Suite* to determine if the proportion of *Old* forest and where applicable, *Mature* + *Old* forest will be maintained to the targets established in the *KBHLPO*, within all landscape units where the proposed *cutblock* or proposed *road* is located;
    b) where the report indicates that a deficit to *Old* forest targets exists, ensure that the deficit can be met aspatially with *Old* forest located outside of *OGMAs*, with preference given to *Old* forest located within *connectivity corridors, ancient forests* and parks; or
    c) where an *Old* forest target deficit cannot be met aspatially outside of OGMAs, ensure that a *recruitment strategy* is prepared; and
    d) where the report indicates that a deficit to *Mature* + *Old* forest targets exists, ensure that a *recruitment strategy* is prepared;
2. not construct a *road* or harvest a *cutblock* within an *OGMA* unless the *road* construction or harvesting qualifies as a *minor OGMA incursion;* and
3. where the *FSP holder* constructs a *road* or harvests a *cutblock* with an *OGMA* and the *minor OGMA incursion* exceeds 0.25 hectares, prior to reporting the harvest completion of the *cutblock*, identify an area as an *OGMA replacement.*
4. report annually to the Selkirk Natural Resource District any changes to *OGMA's* that are the result of *minor OGMA incursions.*

## 5.17 ***OSLRMP LUO*** Basic Levels of Coarse Woody Debris Areas

| **Source of Objective:** *OSLRMP LUO* Objective 1, Basic Levels of Coarse Woody Debris Areas |
|---|
| The objective for areas shown on *LUO* Map 1 is, for the purposes of conserving soil, wildlife habitat and biodiversity at the stand level, to retain basic levels of coarse woody debris, including but not limited to stub trees, standing trees, firmwood reject logs and poor quality grade 4 logs across sites subject to timber harvesting. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.17.1 Definitions

For the purposes of this result or strategy:

**"*basic levels of coarse woody debris areas*"** means the areas shown on *OSLRMP LUO* Map 1 as Basic Levels of Coarse Woody Debris Areas.
**"*mature tree*"** means a lodgepole pine tree at least 12.5 cm *dbh*, or another tree species at least 17.5 cm *dbh*, that is either alive or dead.
**"*stub*"** means a *mature tree* that is either mechanically felled or broken off at least 3m above the ground.

### 5.17.2 Result or Strategy for *OSLRMP LUO* Basic Levels of Coarse Woody Debris Areas

Applicable *FDU*s: #3-Okanagan, #4-TFL 49
In relation to the *OSLRMP LUO* Objective 1, Basic Levels of Coarse Woody Debris Areas, where the *FSP holder* harvests a *cutblock:*

a) within a *basic levels of coarse woody debris area;*
b) that has a *NAR* greater than 20 hectares;
c) that is not subject to a broadcast burn prescription; and
d) that is harvested with a ground-based harvest system;

at the conclusion of harvesting the *cutblock,* where *practicable* the *FSP holder* will not cause there to be less than an average 2 per hectare of:

(i) standing *mature trees;*
(ii) *stubs;* or
(iii) any combination thereof.

## 5.18 *OSLRMP LUO* Basic and Enhanced Levels of Coarse Woody Debris Areas

| **Source of Objective:** *OSLRMP LUO* Objective 2, Basic and Enhanced Levels of Coarse Woody Debris Areas |
|---|
| The objective for areas shown on *LUO* Map 2 is, for the purposes of conserving the suitability of Grizzly Bear, Marten and Fisher habitat at the stand level, and within landscape units of higher biodiversity emphasis, to retain basic and enhanced levels of coarse woody debris, including but not limited to, standing trees, stub trees and tree pieces across sites subject to timber harvesting. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.18.1 Definitions

For the purposes of this result or strategy:
**"*basic and enhanced levels of coarse woody debris areas*"** means the areas shown on *OSLRMP LUO* Map 2 as Basic and Enhanced Levels of Coarse Woody Debris Areas.
**"*mature tree*"** means a lodgepole pine tree at least 12.5 cm *dbh*, or another tree species at least 17.5 cm *dbh*, that is either alive or dead.
**"*stub*"** means a *mature tree* that is either mechanically felled or broken off at least 3m above the ground.
**"*tree piece*"** means a portion of a tree at least 3 metres in length and a minimum diameter of 40 cm, or the next closest size where a 40 cm diameter tree piece is not available.

### 5.18.2 Result or Strategy for *OSLRMP LUO* Basic and Enhanced Levels of Coarse Woody Debris Areas

Applicable *FDU*s: #3-Okanagan, #4-TFL 49
In relation to the *OSLRMP LUO* Objective 2, Basic and Enhanced Levels of Coarse Woody Debris Areas, if the *FSP holder* harvests a *cutblock:*

a) within *basic and enhanced levels of coarse woody debris areas:*
b) that has *a NAR* greater than 20 hectares;
c) that is not subject to a broadcast burn prescription;
d) that is harvested with a ground-based harvest system; and
e) if that *cutblock* is located within:
    (i) an area mapped as "moderately-high" or "high" grizzly habitat suitability on page "Wildlife_Grizzly 4-15" of the *OSLRMP;*
    (ii) the *Fly Hills Marten RMZ* (as defined in Paragraph 5.4.2.1);
    (iii) *marten areas* (as defined in Paragraph 5.4.2.1) located outside of the *Fly Hills RMZ* and contains the riparian management area of an S4, S5 or S6 stream that does not have an *enhanced riparian reserve* (as defined in Paragraph 5.8.1);

(iv) *fisher areas* (as defined in Paragraph 5.4.3.1) and contains a riparian management area of an S5 or S6 stream;
(v) the Seymour, Upper Shuswap, and Ashnola landscape units; or
(vi) the high biodiversity emphasis portion of the Anarchist landscape unit; then

at the conclusion of harvesting that *cutblock* and within those areas associated with that *cutblock* that are identified in clause e), where applicable and subject to Paragraphs 5.4.2.2 and 5.4.3.2, the *FSP holder* will not cause there to be less than an average 10 per hectare of:

A. standing *mature trees*;
B. *stubs*;
C. *tree pieces; or*
D. any combination thereof.

## 5.19 Visual Quality

### 5.19.1 Definitions

For the purposes of these strategies:
**"*visual sensitivity class*"** or **"*VSC*"** is a component of the *VLI* and can be described as a relative measure of the sensitivity of a *VSU* to visual alteration, applied on a scale of 1 through 5, where the higher numerically the VSC, the less likely a visual alteration will cause concern and/or the more the *VSU* can be altered before causing concern.
**"*visual quality objective*"** or "***VQO***" has the meaning given to it in *FPPR* section 1. VQO spatial and attribute data is housed in the BC Geographic Warehouse.
**"*altered forest landscape*"**, as defined in *FPPR* section 1, "means forest landscape that

a) is viewable from a significant public viewpoint,
b) contains *cutblock*s or *road*s, and
c) is in one of the categories prescribed under *FPPR* section 1.1".

**"*categories of visually altered forest landscape*"** have the meaning given to them under *FPPR* section 1.1. They are defined by subjective measures of some or all of the following attributes:

a) scale (or size);
b) ease of seeing (or visual acuity); and
c) shape (or appearance).

### 5.19.2 *KHLPO* Visual Quality in *Scenic Area*s with a VSC, without a VQO

| |
|---|
| **Source of Objective:** *FPPR* section 9.2 (2) |
| The objective set by *government* in relation to visual quality for a *scenic area*, that<br>a) was established on or before October 24, 2002, and<br>b) for which there is no visual quality objective<br>is to ensure that the altered forest landscape for the *scenic area*<br>c) in visual sensitivity class 1 is in either the preservation or retention category,<br>d) in visual sensitivity class 2 is in either the retention or partial retention category,<br>e) in visual sensitivity class 3 is in either the partial retention or modification category,<br>f) in visual sensitivity class 4 is in either the partial retention or modification category, and<br>g) in visual sensitivity class 5 is in either the modification or maximum modification category. |
| **Applicable *FDU*s: #1-Kamloops** (only applies to former Headwaters Forest District portion of *FDU* #1) |
| **Source of Objective:** *KHLPO* section 2.1.14.1 |
| The primary objective in Visually Sensitive Areas is to ensure that the levels of visual quality expected by society are achieved on Crown land in keeping with the concepts and principles of integrated resource management. |
| **Applicable *FDU*s: #1-Kamloops** |
| **Source of Objective:** *KHLPO* section 2.6.1 |
| Maintain viewscapes in recreation and tourism areas to a standard that does not detract from the recreational enjoyment of users. |
| **Applicable *FDU*s: #1-Kamloops, (portion within former Headwaters Forest District)** |

#### 5.19.2.1 Definition

For the purposes of this strategy:
"***visual assessment***" means the process of assessing and planning a proposed forest landscape visual alteration to be consistent with an applicable *category of visually altered forest landscape,* as specified in *FPPR* section 9.2(2), and applied in accordance with FPPR Section 1.1, by:

a) designing the appearance of the alteration, having regard for the scale, shape and acuity of the alteration;
b) utilizing visual simulation of the alteration; and
c) including the influence of *established cutblocks* and *established roads* on the alteration.

#### 5.19.2.2 Result or Strategy for *KHLPO* Visual Quality in *Scenic Area*s without a VQO

Applicable *FDU*s: #1-Kamloops
In relation to the objectives set by *government* for visual quality in *scenic areas,* where the *FSP holder* harvests a cutblock or constructs a *road* within a *scenic area* for which there is no legally established *visual quality objective,* the *FSP holder* will ensure that:

1) prior to harvesting that cutblock or constructing that road, a *qualified professional* conducts a *visual assessment* of the *altered forest landscape* that will result from that cutblock harvesting or road construction; and
2) the completed cutblock harvesting and road construction is consistent with an applicable *category of visually altered forest landscape,* as specified in *FPPR* section 9.2(2), and applied in accordance with *FPPR* Section 1.1.

### 5.19.3 Visual Quality in *Scenic Areas* with a VQO

| |
|---|
| **Source of Objective:** *FRPA* section 181 |
| The objectives set by *government* for visual quality in *scenic areas* are the established Visual Quality Objectives, applied in accordance with *FPPR* Section 1.1, [*Categories of Visually Altered Forest Landscape*]. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49** |
| **Source of Objective:** DM *GAR* section 7(2) Order, December 31, 2005 |
| GAR 7(2)<br>The minister responsible for the Forest Act by order may establish for a scenic area, visual quality objectives that are consistent with subsection (1) and are within the categories of altered forest landscape prescribed under section 1.1 of the Forest Planning and Practices Regulation. |
| **Applicable *FDU*s: #5-Arrow**, **#6-Boundary** |
| **Source of Objective:** *KHLPO* section 2.1.14.1 |
| The primary objective in Visually Sensitive Areas is to ensure that the levels of visual quality expected by society are achieved on Crown land in keeping with the concepts and principles of integrated resource management. |
| **Applicable *FDU*s: #1-Kamloops** |
| **Source of Objective:** *KHLPO* section 2.6.1 |
| Maintain viewscapes in recreation and tourism areas to a standard that does not detract from the recreational enjoyment of users. |
| **Applicable *FDU*s: #1-Kamloops** |
| **Source of Objective:** *OSLRMP LUO* Objective 10a |
| The objective for the area shown on *LUO* Map 10 is to maintain resources and values associated with Community/Crown Interface areas and *scenic areas* when planning and implementing forest health operations. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.19.3.1 Definition

For the purposes of this strategy:

"***visual assessment***" means the process of assessing and planning a proposed forest landscape visual alteration to be consistent with the established *VQO*, applied in accordance with *FPPR* Section 1.1, by:

a) designing the appearance of the alteration, having regard for the scale, shape and acuity of the alteration;
b) utilizing visual simulation of the alteration; and
c) including the influence of *established cutblocks* and *established roads* on the alteration.

### 5.19.3.2 Result or Strategy for Visual Quality in *Scenic Areas* with a VQO

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objectives set by *government* for visual quality in *scenic areas,* where the *FSP holder* harvests a cutblock or constructs a *road* within a *scenic area* with an established *visual quality objective,* the *FSP holder* will ensure that:

1) prior to harvesting that cutblock or constructing that road, a *qualified professional* conducts a *visual assessment* of the *altered forest landscape* that will result from that cutblock harvesting or road construction;
2) the completed cutblock harvesting and road construction is consistent with the established *VQO*, applied in accordance with *FPPR* Section 1.1;
3) despite subsections (1 and 2), within the scenic areas in *FDU* 1, 3 and 4 that are identified in **Table 5.19.3.2(a)**, where cutblock harvesting or *road* construction is proposed to recover timber that has been damaged, threatened, significantly reduced in value, lost or destroyed due to the effects of the 2021 White Rock Lake (K61884) and Mabel Complex (K41561) wildfires and the 2023 Bush Creek East (K21633) wildfire, the FSP holder will:
    a) prior to harvesting that cutblock or constructing that road, ensure that a *qualified professional* conducts a *visual assessment* of the *altered forest landscape* that will result from that cutblock harvesting or road construction, which considers the circumstances or conditions brought about by wildfire that threaten, impact or have damaged the timber in that *scenic area*; and
    b) where a *qualified professional* determines that it is not practicable to effectively recover the damaged timber and be fully consistent with the scale and acuity attributes of the established VQOs, ensure that to the extent practicable, within each applicable VLI polygon, the *altered forest landscape* that results from that cutblock harvesting or road construction:
        (i) is natural in appearance and not rectilinear or geometric in shape, and
        (ii) does not exceed the levels for scale or acuity that are specified in **Table 5.19.3.2(a).**
4) despite subsection (1 and 2) within the scenic areas in FDU 1 that are identified in **Table 5.19.3.2(b)**, where cutblock harvesting or road construction is proposed to recover timber that has been damaged, threatened, significantly reduced in value, lost or destroyed due to the effects of Douglas-fir bark beetle, the FSP holder will:
    a) prior to harvesting that cutblock or constructing that road, ensure that a *qualified professional* conducts a *visual assessment* of the *altered forest landscape* that will result from that cutblock harvesting or road construction, which considers the circumstances or conditions brought about by the Douglas-fir bark beetle infestations that have damaged, impacted or threaten the timber in that scenic area; and
    b) where a *qualified professional* determines that it is not practicable to effectively recover the damaged, impacted or threatened timber and be fully consistent with the scale and acuity attributes of the established VQOs, ensure that within each applicable VLI polygon, the *altered forest landscape* that results from that cutblock harvesting or road construction:
        (i) is to the extent practicable, natural in appearance and not rectilinear or geometric in shape, and
        (ii) does not exceed the allowable extents of scale or acuity that are specified in **Table 5.19.3.2(b).**

| Table 5.19.3.2(a) - Scenic Areas (VLI Polygons) to which 5.19.3.2(3) applies | | | | | | |
|---|---|---|---|---|---|---|
| FDU | Geographic Location | Wildfire Identification | VLI Polygon | Established VQO | Scale (allowable extent) | Acuity (allowable extent) |
| 1 | Adams Lake (east) | Bush Creek East | 1875 | Retention | large in scale | very easy to see |
| 1 | Adams Lake (east) | Bush Creek East | 1880 | Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1406 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1409 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1421 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1447 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1471 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1475 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1501 | Partial Retention | large in scale | very easy to see |
| 3 | Mabel Lake (east) | Mabel Complex | 1506 | Partial Retention | large in scale | very easy to see |
| 4 | Onion Road area (Hwy 97 Westwold) | White Rock Lake | 1675 | Partial Retention | large in scale | very easy to see |
| 4 | Woods Lake (East) | White Rock Lake | 1819 | Partial Retention | large in scale | very easy to see |
| 4 | Woods Lake (East) | White Rock Lake | 1821 | Retention | large in scale | very easy to see |

| Table 5.19.3.2(b) - Scenic Areas (VLI Polygons) to which 5.19.3.2(4) applies | | | | | | |
|---|---|---|---|---|---|---|
| FDU | Geographic Location | Damaging Agent | VLI Polygon | Established VQO | Scale (allowable extent) | Acuity (allowable extent) |
| 1 | Dixon – Barriere Lakes Road | Douglas-fir beetle | 134788 | Partial Retention | large in scale | very easy to see |
| 1 | Dixon – Barriere Lakes Road | Douglas-fir beetle | 134864 | Partial Retention | large in scale | very easy to see |
| 1 | Dixon – Barriere Lakes Road | Douglas-fir beetle | 134830 | Partial Retention | large in scale | very easy to see |
| 1 | Little Fort – Hwy 5 | Douglas-fir beetle | 134286 | Partial Retention | large in scale | very easy to see |
| 1 | Darlington – Hwy 5 | Douglas-fir beetle | 134584 | Partial Retention | large in scale | very easy to see |
| 1 | Badger Lake | Douglas-fir beetle | 135247 | Partial Retention | large in scale | very easy to see |

## 5.19.4 ***KHLPO* Visual Quality outside Visually Sensitive Areas**

| **Source of Objective:** *KHLPO* section 2.1.14.1 |
|---|
| Areas outside the identified visually sensitive areas in the Kamloops LRMP are managed for landscape objectives as follows: alterations may dominate the characteristic landscape but must borrow from natural line and form to such an extent and on such a scale that they are compatible to natural occurrences. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.19.4.1 Result or Strategy for *KHLPO* Visual Quality outside Visually Sensitive Areas

Applicable *FDU*s: #1-Kamloops

In relation to the *KHLPO* objective for areas outside the identified visually sensitive areas in the Kamloops LRMP (*KLRMP* Figure 5 Visually Sensitive Areas), where the *FSP holder* harvests a cutblock or constructs a *road* within an area that is either outside a visually sensitive area, or within a visually sensitive area that does not have either a *visual quality objective* or *visual sensitivity class* established, the *FSP holder* will ensure that, at the conclusion of that cutblock harvesting or road construction, the resulting *altered forest landscape* (including *established cutblocks* and *established roads*), is consistent with the characteristics of the modification *category of visually altered forest landscape,* applied in accordance with *FPPR* Section 1.1(d).

### 5.19.5 *OSLRMP LUO* Tourism Areas Foreground Visual Quality

| **Source of Objective:** *OSLRMP LUO* Objective 5 Tourism Areas |
|---|
| The objective for areas shown on *LUO* Map 5 is to maintain foreground visual quality from viewpoints on existing tourism areas, facilities, trails and natural features important for tourism. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

#### 5.19.5.1 Definitions

For the purposes of this result or strategy:

**"*tourism areas*"** means the areas indicated on the *OSLRMP LUO* Map 5 as *Tourism Areas*.

#### 5.19.5.2 Result or Strategy for *OSLRMP LUO* Tourism Areas Foreground Visual Quality

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the *OSLRMP LUO* Objective 5, Tourism Areas, where the *FSP holder* harvests a *cutblock* or constructs a *road* within a *tourism area* that is within 1 kilometre of a designated recreation site, recreation trail, interpretive forest site, tenured tourism facility or tenured tourism area, at the completion of harvesting or road construction and to the extent that it is practicable to do so, the *FSP holder* will ensure that:

1. cutblock boundaries utilize natural line and form or are irregular in shape; and
2. for the purpose of providing visual screening, trees or clumps of trees are retained adjacent to:
    a) timbered *cutblock* boundaries;
    b) *road* locations; or
    c) landing locations.

## 5.20 Cultural Heritage Resources

| **Source of Objective:** *FPPR* section 10 |
|---|
| The objective set by *government* for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are<br>(a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and<br>(b) Not regulated under the *Heritage Conservation Act*. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.20.1 Definitions

For the purposes of this result or strategy:

**"*potentially affected First Nations*"** means those First Nations with interest within an area where cutblock harvesting or road construction is proposed. A potentially affected First Nation will be identified either:

a) from the Consultative Area Database (or equivalent successor database maintained the provincial government); or
b) by a First Nation expressing that interest directly to the *FSP holder*.

**"*cultural heritage resource*"** or **"*CHR*"** means an object, a site or the location of a traditional societal practice that is of historical, cultural or archaeological significance to British Columbia, a community or an aboriginal people, that is the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and that is not regulated under the *Heritage Conservation Act.*

**"*CHR evaluation*"** means a field or office-based process to assess the potential direct impact of primary forest activities on a *CHR,* so that site information or recommendations for the development of strategies to mitigate the potential direct impact of primary forest activities on a CHR can be provided.

A *CHR evaluation* is conducted by an authorized member of a *potentially affected First Nation* or a *qualified professional* and is conducted where the *potentially affected First Nation* has shared information with the *FSP holder* regarding the presence, relative value and abundance of a *CHR.*

A *CHR evaluation* conducted by a *qualified professional* will be shared with the *potentially affected First Nation*.

**"*CHR evaluation protocol*"** means a signed agreement or the portion of a signed agreement between the *FSP holder* and a *potentially affected First Nations* that defines the framework and timing of a *CHR evaluation*.

**"*CHR mitigation strategy*"** means a plan to mitigate the direct impact of *primary forest activities* on an identified *CHR*, based on:

a) the relative value or importance of a particular *cultural heritage resource* to a traditional use by an aboriginal people;
b) the relative abundance or scarcity of a *cultural heritage resource* that is the focus of a traditional use by an aboriginal people;
c) the historical extent of a traditional use by an aboriginal people of a *cultural heritage resource*;
d) the impact on *government* granted timber harvesting rights of conserving or protecting a *cultural heritage resource* that is the focus of a traditional use by an aboriginal people; and
e) options for mitigating the impact that a forest practice might have on a *cultural heritage resource* that is the focus of a traditional use by an aboriginal people.

### 5.20.2 Result or Strategy for Cultural Heritage Resources

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the objective for *cultural heritage resources* that is set out in section 10 of the *FPPR,* the *FSP holder* will:

1. prior to harvesting a *cutblock* or constructing a *road*:
   (a) share information regarding the location of the proposed harvesting and *road* construction to *potentially affected First Nations*, ensuring existing *CHR evaluation protocols* are followed where they exist, and request that the *potentially affected First Nations*:
      (i) indicates the presence, relative value and abundance of a *CHR*; and
      (ii) identifies where *a CHR evaluation* is recommended;
   (b) where a *potentially affected First Nations* responds within the *timeline* specified as part of the information sharing and identifies the need for a *CHR evaluation,* ensure a *CHR evaluation* is completed on the area of proposed harvesting and *road* construction;
   (c) where a *CHR evaluation* includes recommendations to mitigate the direct impact of *primary forest activities* on a *CHR*, develop a *CHR mitigation strategy*;
   (d) share the *CHR mitigation strategy* with the *potentially affected First Nation;*
2. conduct *primary forest activities* on the area that is the focus of the *CHR evaluation* consistent with the *CHR mitigation strategy;* and
3. if a previously unidentified *CHR* is encountered during harvesting or *road* construction, modify or stop these activities to the extent necessary to protect the *CHR*, and apply subparagraph 1 to the *CHR*, indicating to potentially affected First Nations that a previously unidentified *CHR* has been encountered.

## 5.21 *KHLPO* Archaeological Assessments

| **Source of Objective:** *KHLPO* section 2.1.16 |
|---|
| Undertake archaeological assessments in all High and Medium Potential areas identified in the Archaeological Overview Assessment. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.21.1 Definitions

For the purposes of this result or strategy:
"***Archaeological Overview Assessment***" or "***AOA model***" means the Kamloops *TSA* 2010 AOA model overview maps, or as amended from time to time, and housed by the Thompson Rivers Forest District. These maps indicate areas of low, medium or high archaeological potential within the Kamloops *TSA*.
"***archaeological resource***" means the physical remains of past human activity that is protected under the Heritage Conservation Act (RSBC 1996 Chap 187).
"***archaeological assessment***" means an evaluation of archaeological resources within and adjacent to the area where *cutblock* harvesting or *road* construction is proposed, which is conducted using the following process:

- Step 1 office review, completed by a *participating First Nation,* is an office review of applicable First Nations land use history and evidence of traditional or cultural use. Step 1 findings may determine that no further work is required or, when supported by a rationale, that the potential for archaeological resources on site warrants proceeding to Step 2;

- Step 2 preliminary field review (PFR), completed by a *participating First Nation,* is a field review of applicable First Nations land use history and evidence of traditional or cultural use. Step 2 findings may determine that no further work is required or, when supported by a rationale, that the potential for archaeological resources on site warrants proceeding to Step 3;
- Step 3 comprehensive field review, completed by a *participating First Nation*, is a more detailed field review of applicable First Nations land use history and evidence of traditional or cultural use. Step 3 findings may determine that no further work is required, or if archaeological evidence is found, mitigation recommendations can be put forward by the *participating First Nation* to avoid the site or proceed to Step 4; and
- Step 4 archaeological impact assessment (AIA), completed under permit from the Archaeology Branch by an archaeologist, evaluates the significance of the archaeological resource to be adversely affected, as well as an assessment of the nature and extent of the impacts expected. The purpose of the assessment is to provide recommendations as to the most appropriate manner in which the resource may be managed in light of the identified impacts. The recommendations may include alteration of proposed development plans to avoid resource impact or mitigative studies directed at retrieving resource values prior to impact.

"***participating First Nations****"* means those First Nations communities listed in the "Implementation Guidelines for the Kamloops AOA model and process (Version September 2013 – Appendices updated Nov 2014)", or as this document is amended from time to time.

### 5.21.2 Result or Strategy for *KHLPO* Archaeological Assessments

Applicable *FDU*s: #1-Kamloops

In relation to the objective set by *government* to undertake archaeological assessments in all High and Medium Potential areas identified in the Archaeological Overview Assessment, where a *cutblock* or *road* is proposed within *FDU* #1-Kamloops in a High or Medium Potential area as identified in the *AOA model*, the *FSP holder* will, prior to harvesting that *cutblock* or constructing that *road*, undertake *archaeological assessments* consistent with the *Implementation Guidelines for the Kamloops AOA model and process* (Version September 2013 – Appendices updated Nov 2014), or as this document is amended from time to time.

## 5.22 Interpretive Forest Sites, Recreation Sites or Recreation Trails

| **Source of Objective:** *FRPA* 181 |
|---|
| Interpretive forest sites, recreation sites and recreation trails that were legally designated under *FPC* have been continued under *FRPA* section 180. Where objectives for these interpretive forest sites, recreation sites and recreation trails were legally established under *FPC*, the objectives have been continued under *FRPA* 181. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary** |

### 5.22.1 Definitions

For the purposes of this result or strategy:

**"*objective*"** means, within the applicable *FDU*, the legally established objective(s) for:

a) Recreation Sites and Trails in the Clearwater Forest District, dated March 24, 1997;
b) Recreation Sites and Trails within the Salmon Arm Forest District, dated September 15, 1997;
c) The Eagle Creek Recreation Trail in the Arrow Boundary Forest District, dated May 26, 1998;
d) Recreation Sites and Trails within the Cascades Forest District, dated January 31, 2000;
e) Rose Swanson Sensitive Area, *Order to Establish a Sensitive Area and Objectives*, dated April 30, 1997; and
f) Recreation Sites and Trails within the Arrow and Boundary *TSAs*.

**"*site*"** means a recreation site or area legally designated under *FPC*, and continued under *FRPA* section 180, for which a legal *objective* is continued under *FRPA* section 181. The extent of these *sites* is identified spatially on files held in the B.C. Geographic Warehouse. The list of *sites* and *objectives* is included in Appendix B to this *FSP*; and

**"*trail*"** means a recreation trail legally designated under the *FPC* and continued under *FRPA* section 180, for which a legal *objective* is continued under *FRPA* section 181. The location of these trails is identified

spatially on files held in the B.C. Geographic Warehouse. The list of trails and *objectives* is included in Appendix B to this *FSP*.
"***recreation site or trail management strategy***" means a strategy developed by the *FSP holder* which ensures that *cutblock* harvesting and *road* construction is designed to be consistent with those legally established recreation site or trail objectives that pertain to the *FSP holder*.

### 5.22.2 Result or Strategy for Interpretive Forest Sites, Recreation Sites or Recreation Trails

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow, #6-Boundary
In relation to the objectives set by *government* for interpretive forest *sites*, recreation *sites* and recreation *trails*, the *FSP holder* will:

1. prior to harvesting a *cutblock* or constructing a *road* within 100 metres (slope distance) of a *site* or *trail:*
    a) refer proposed harvesting or *road* construction to the Ministry responsible for recreation, requesting input on the proposed harvesting or *road* construction as it relates to the established *site* or *trail objectives*;
    b) develop a *recreation site or trail management strategy*, incorporating input from the Ministry responsible for recreation where they have responded within the *timeline* specified in the referral, and to the extent that it is *practicable* to do so;
    c) communicate the *recreation site or trail management strategy* to the Ministry responsible for recreation;
    d) receive authorization from a recreation officer to use the recreation site, recreation trail or interpretive forest site for an industrial activity, as required by Forest Recreation Regulation Section 16; and
2. conduct harvesting and *road* construction consistent with the *recreation site or trail management strategy*.

## 5.23 *KHLPO* Recreation and Tourism Zones

| Source of Objective: *KHLPO* section 2.6.1. |
|---|
| *Road* and trail construction, maintenance and deactivation and other surface disturbances and construction will be undertaken in a manner that meets the management objectives of each recreation and tourism zone, in accordance with direction from an approved plan, local process, or enhanced referral |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.23.1 Definitions

For the purpose of this result or strategy:
**"*recreation and tourism RMZ*"** means the areas spatially identified on *KLRMP Figure 11: Special Resource Management Recreation and Tourism and* labelled as Recreation and Tourism Resource Management Zones.

### 5.23.2 Result or Strategy for *KHLPO* Recreation and Tourism Zones

Applicable *FDU*s: #1-Kamloops
In relation to the objective set by *government* for recreation and tourism zones, where *government* initiates an access management plan or process for a *recreation and tourism RMZ* and the *FSP holder* has been provided an opportunity to participate in the planning process, the *FSP holder* will conduct *cutblock* harvesting, *road* construction and *road* deactivation within the *recreation and tourism RMZ* consistent with the direction provided in an approved access management plan or process, to the extent that it is *practicable* to do so.

## 5.24 *KHLPO* Remote Recreation and Tourism Zones

| **Source of Objective:** *KHLPO s*ection 2.6.1.4 |
|---|
| Extractive uses are permitted providing they are consistent with the objectives of the resource management zone. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.24.1 Definitions

For the purpose of this result or strategy:

**"*remote recreation and tourism RMZ*"** means the following areas, spatially identified in *KLRMP Figure 11: Special Resource Management Recreation and Tourism,* labelled as Recreation and Tourism Resource Management Zones, and designated as Management Category: Remote in *KLRMP* section 2.6.2 *Area-Specific Objectives and Strategies:*

a) R2. Bischoff;
b) R4. Bone; and
c) R7. North Thompson Glacier.

### 5.24.2 Result or Strategy for *KHLPO* Remote Recreation and Tourism Zones

Applicable *FDU*s: #1-Kamloops

In relation to the objective set by *government* for remote recreation and tourism zones, where the *FSP holder* proposes harvesting or *road* construction within a *remote recreation and tourism RMZ*, the *FSP holder* will:

1) prior to harvesting a *cutblock* within a *remote recreation and tourism RMZ*, ensure that a *qualified professional* designs the *cutblock* harvesting to be consistent with the structural characteristics and the temporal and spatial distribution of an opening that would result from a natural disturbance;
2) conduct harvesting consistent with the *qualified professional* design specified in subparagraph 1);
3) at the conclusion of harvesting that *cutblock* within a *remote recreation and tourism RMZ*, ensure, to the extent *practicable*, that the structural characteristics of that *cutblock* resemble an opening that would result from a natural disturbance; and
4) ensure that *cutblock* harvesting, *road* construction and *road* deactivation activities are consistent with Paragraph 5.23.2 [Result or Strategy for KHLPO Recreation and Tourism Zones ].

## 5.25 *OSLRMP LUO* Intensive Recreation Areas

| **Source of Objective:** *OSLRMP LUO* Objective 3 Intensive Recreation Areas |
|---|
| The objective for areas shown on *LUO* Map 3 is that primary forest activities, including sanitation and salvage activities, will not have a material adverse impact on the potential for a diverse range of quality recreational experiences that exist immediately before the activity. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.25.1 Definitions

For the purposes of this result or strategy:

**"*intensive recreation areas*"** means the areas shown on the *OSLRMP LUO* Map 3 as Intensive Recreation Areas.

**"*intensive recreation area mitigation strategy*"** means a plan developed by the *FSP holder* to mitigate a material adverse impact on the potential for a diverse range of quality recreational experiences that is identified by a recreation user group. The strategy specifies:

a) what actions are to be undertaken;
b) who is responsible for undertaking the actions;
c) where the actions will occur; and
d) when the actions will be completed.

### 5.25.2 Result or Strategy for *OSLRMP LUO* Intensive Recreation Area

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the *OSLRMP LUO* Objective 3, Intensive Recreation Areas, the *FSP holder* will:

1. prior to harvesting a *cutblock* or constructing a *road* within an *intensive recreation area*:
    a) refer the proposed harvesting or *road* construction to the Ministry responsible for recreation, requesting that recreation user groups with an interest in the area where the *FSP holder* proposes the harvesting and *road* construction be identified;
    b) where the Ministry responsible for recreation responds in writing within the *timeline* specified in the referral, and identifies recreation user groups with an interest in the area, refer the proposed harvesting and *road* construction to the identified recreation user

groups, requesting that the group identify concerns about the proposed activities in relation to their recreation use;

c) where a recreation user group responds in writing within the *timeline* specified in the referral and identifies a concern, develop an *intensive recreation area mitigation strategy* to address the concern to the extent that it is *practicable* to do so, having regard to:
   (i) the location of the recreation value in relation to the planned harvesting or *road* construction;
   (ii) the existing condition of the recreation value;
   (iii) the frequency of use of the recreation value;
   (iv) the relative abundance or scarcity of the recreation value;
   (v) the potential direct impact of the planned *primary forest activities* on the recreational feature;
   (vi) the impact on the *agreement holder's* timber harvesting rights of conserving or protecting that recreational feature;

d) communicate the *intensive recreation area mitigation strategy* to the recreation user group; and

2. conduct harvesting or *road* construction consistent with the *intensive recreation area mitigation strategy.*

## 5.26 *OSLRMP LUO* Regionally Significant Trail Corridors

| **Source of Objective:** *OSLRMP LUO* Objective 4 Regionally Significant Trail Corridors |
|---|
| The objective for regionally significant trail corridors shown on *LUO* Map 4 is that primary forest activities, including sanitation and salvage activities, will not have a material adverse impact on the potential for a diverse range of quality recreational experiences that exist immediately before the activity. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.26.1 Definitions

For the purposes of this result or strategy:

**"*regionally significant trail corridor*"** means a trail indicated on *OSLRMP LUO* Map 4 as a Regionally Significant Trail Corridor. The *FSP holder* acknowledges that the mapped trail locations may be inaccurate. The following strategies apply to the on-ground trail location at the time *primary forest activities* are being conducted. If there is a discrepancy between the trail location indicated on *LUO* Map 4 and the actual on-ground trail location, the location on the ground prevails.

**"*category A trail*"** means a trail indicated on Map 4 of the *OSLRMP LUO* as a *regionally significant trail corridor* and identified as a category A trail on page REC 4-5 of the *OSLRMP*, as summarized in Table 5.26.1.

**"*category B trail*"** means a trail indicated on Map 4 of the *OSLRMP LUO* as *a regionally significant trail corridor* and identified as a category B trail on page REC 4-5 of the *OSLRMP*, as summarized in Table 5.26.1.

### 5.26.2 Result or Strategy for *OSLRMP LUO* Regionally Significant Trail Corridors

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the *OSLRMP LUO* Objective 4, Regionally Significant Trail Corridors, the *FSP holder* will:

1. not construct a new *road* within 100 metres (slope distance) either side of a *category A trail* unless the *road* is required to cross the trail, or no other *practicable* alternative *road* location exists;
2. where a *category A trail* or *category B trail* is located within a *scenic area* with an established *VQO*, conduct harvesting and *road* construction consistent with Paragraph 5.19.3.1 [Result or Strategy for Visual Quality in Scenic areas with a VQO];
3. where a *category A trail* or *category B trail* is not located within a *scenic area* with an established *VQO*, conduct harvesting and *road* construction consistent with Paragraph 5.19.5.2 [Result or Strategy for OSLRMP LUO Tourism Areas Foreground Visual Quality]; and
4. at the conclusion of harvesting the portion of a *cutblock* located within 100 metres (slope distance) either side of a *category A trail*, not cause there to be less than 66% of the pre-harvest basal area retained within that portion of the *cutblock.*

| Table 5.26.1 Regionally Significant Trail Corridors | |
|---|---|
| List of Trails (source: *OSLRMP* List of Trails, page REC 4-5) | Trail Category |
| Brent Mountain Trails | A |
| Centennial Trail (located in the Ashnola/Joe Lake area, and only those portions outside of the Snowy protected area) | A |
| Isintok Trail, from the Brent Mountain protected area to Isintok Lake | A |
| Kettle Valley Railway | A |
| Mission Creek (Okanagan Lake to Greystokes) | A |
| Shingle Creek Trail | A |
| The trail from Big Meadow Lake to Corporation Lake to the Myra-Bellevue protected area | A |
| The trail from Lacoma Lake to Jackpine and Banana Lakes, and only those portions outside of the Trepanier protected area | A |
| The Canyon Rim Trail on the north side of Shorts Creek canyon | A |
| Big Meadow | B |
| Highland Trail (west and east side high level trail | B |
| Hudson's Bay Company Brigade Trail (where identifiable) | B |
| Mara Lookout (from Owl Head) | B |
| McDougall Rim (trailhead to Hidden Lake) | B |
| Nuttal Lake | B |
| Okanagan High Rim | B |
| Powers Creek | B |

## 5.27 *KHLPO* Settlement Resource Management Zones

| **Source of Objective:** *KHLPO* section 2.2 |
|---|
| Manage land within community growth boundary to meet the objectives set out in approved community land use plans. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.27.1 Definitions

For the purpose of this result or strategy:
**"*settlement resource management zones*"** means the areas spatially identified on *KLRMP Figure 7: Settlement Resource Management Zones* and labelled as "Settlement".

### 5.27.2 Result or Strategy for *KHLPO* Settlement Resource Management Zones

Applicable *FDU*s: #1-Kamloops
In relation to the objective set by *government* for Settlement Resource Management Zones, where *government* has developed and approved a community land use plan within an area identified as a *settlement resource management zone*, the *FSP holder* will conduct *cutblock* harvesting and *road* construction within the *settlement resource management zone* consistent with the objectives set out in the approved community land use plan, to the extent that it is *practicable* to do so.

## 5.28 *OSLRMP LUO* Community/Crown Interface

| **Source of Objective:** *OSLRMP LUO* Objective 10a, Map 10 |
|---|
| The objective for areas shown on *LUO* Map 10 is to maintain resources and values associated with Community/Crown Interface areas and scenic areas when planning and implementing forest health operations. |
| **Applicable *FDU*s: #3-Okanagan, #4-TFL 49** |

### 5.28.1 Definitions

For the purposes of this result or strategy:

**"*community/Crown interface area*"** means an area identified as Community/Crown Interface on the map titled Community/Crown Interface RMZ, on page CCI 4-9 of the *OSLRMP*.

**"*local government*"** means a local *government* as that term is defined in the Local *Government* Act, Chapter #323 (RSBC 1996), representing a regional district within a Community/Crown Interface Area.

### 5.28.2 Result or Strategy for *OSLRMP LUO* Community/Crown Interface

Applicable *FDU*s: #3-Okanagan, #4-TFL 49

In relation to the *OSLRMP LOU* Objective 10a Community/Crown Interface areas and *scenic areas*, where harvesting a *cutblock* or constructing a *road* is proposed within a *community/Crown interface area*, the *FSP holder* will:

1. if that harvesting or *road* construction is located within a *scenic area*, ensure that the harvesting or *road* construction is consistent to the extent *practicable* with the strategy described in Paragraph 5.19.3.1 [Result or Strategy for Visual Quality in Scenic areas with a VQO];
2. if the *FSP holder* proposes to harvest a *cutblock* or construct a *road* for the purpose of implementing forest health operations, prior to harvesting the *cutblock* or constructing the *road*:
    a) refer the proposed harvesting or *road* construction activity to the *local government* within that portion of the *community/Crown interface area*, requesting the identification of concerns it may have related to the activity;
    b) where the *local government* responds in writing within the *timeline* specified in the referral and identifies a concern, develop a strategy to mitigate the concern to the extent that it is *practicable* to do so;
    c) communicate with the *local government*, indicating how the concern has been addressed; and
3. where a strategy to mitigate a concern has been developed, conduct harvesting or *road* construction consistent with the mitigation strategy.

## 5.29 *KHLPO* Range

| **Source of Objective:** *KHLPO* section 2.1.10 |
|---|
| Minimize tree/grass/cattle conflicts through integrated management practices. |
| **Applicable *FDU*s: #1-Kamloops** |

### 5.29.1 Definitions

For the purposes of this result or strategy:

**"*road deactivation project*"** means a project conducted by the *FSP holder* which is unrelated to *cutblock* harvesting or *road* construction, and that has the potential to reduce existing *road* access for cattle management.

**"*range referral*"** means communication to a *range agreement* holder or the Ministry responsible for range that:

a) identifies the location of proposed *cutblock* harvesting, *road* construction, or *road deactivation projects* that have not been previously referred;
b) includes a request that the *range agreement* holder or the Ministry responsible for range identify potential conflicts related to the integration of cattle management and the proposed *cutblock* harvesting, *road* construction, or *road deactivation projects*; and
c) specifies a *timeline* to respond to the referral.

**"*forest and range integrated practices plan*"** means a plan developed by a *qualified professional* as a result of a *range referral*, that minimizes potential conflicts between cattle management activities and *primary forest activities* by undertaking integrated management practices. The strategy will specify:

a) what practices are to be undertaken;
b) who is responsible for undertaking the practices;
c) where the actions practices will occur; and
d) when the practices will be completed.

### 5.29.2 Result or Strategy for *KHLPO* Range

Applicable *FDU*s: #1-Kamloops

In relation to the objectives set by *government* to minimize tree/grass/cattle conflicts through integrated management practices, the *FSP holder* will:

1. prior to harvesting a *cutblock*, constructing a *road* or conducting a *road deactivation project* within a *range agreement* area:
    a) if a *range referral* with respect to that *cutblock* harvesting, *road* construction or *road deactivation project* has not been conducted with a potentially affected *range agreement* holder within that *range agreement* area, conduct a *range referral* with that *range agreement* holder;
    b) where that *range agreement* holder responds within the *timeline* specified in the *range referral* and identifies potential conflicts related to the integration of cattle management and that *cutblock* harvesting, *road* construction or *road deactivation project*, ensure that a *forest and range integrated practices plan* is developed which addresses the potential conflicts identified by the *range agreement* holder, to the extent that it is *practicable* to do so; and
    c) communicate the *forest and range integrated practices plan* to the *range agreement* holder; or
    d) if a *range agreement* is not assigned to a crown range area, conduct a *range referral* with respect to that *cutblock* harvesting, *road* construction or *road deactivation project* with the Ministry responsible for range;
    e) where the Ministry responsible for range responds within the *timeline* specified in the *range referral* and identifies potential conflicts related to the integration of cattle management and that *cutblock* harvesting, *road* construction or *road deactivation project*, develop a *forest and range integrated practices plan* which addresses the potential conflicts identified by the Ministry responsible for range, to the extent that it is *practicable* to do so;
    f) communicate the *forest and range integrated practices plan* to the Ministry responsible for range; and
2. where the *FSP holder* is specified within the *forest and range integrated practices plan* as having the responsibility of undertaking a practice, undertake that practice consistent with the *forest and range integrated practices plan.*

# 6 MEASURES

## 6.1 Invasive Plants

| **Source of Legal Requirement:** *FPPR* section 17 |
|---|
| For the purposes of section 47 *[invasive plants]* of the *Act*, a person who prepares a forest stewardship plan must specify measures in the plan to prevent the introduction or spread of species of plants that are invasive plants under the Invasive Plants Regulation, if the introduction or spread is likely to be the result of the person's forest practices. |
| **Source of Objective:** *FRPA* section 47 |
| A person carrying out a forest practice or a range practice must carry out measures that are<br>(a) specified in the applicable operational plan, or<br>(b) authorized by the *minister* to prevent the introduction or spread of prescribed species of invasive plants. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**, **#6-Boundary** |

### 6.1.1 Definition

For the purposes of this measure:
**"*invasive plant*"** means a species of plant prescribed in section 2 of the *FRPA* Invasive Plant Regulation.
**"*Report Invasives BC application*"** means the invasive species reporting mobile app, delivered and maintained by the ministry responsible for Forests.
**"*invasive plant occurrence site*"** means a location of an *invasive plant* that is identified by the *IAPP* or *personnel* working on behalf of the *FSP holder*.
**"*invasive plant zone*"** means a zone determined by the *FSP holder*, encompassing an *invasive plant occurrence site*, and the area within a 500-meter radius (horizontal distance) of that site.
**"*grass seed*"** means Canada Common #1 or higher standard forage mixture, as defined by the *Canada Seeds Act*, and applied at manufacturer's prescribed rates.
**"*personnel*"** means persons working on behalf of the *FSP holder* within an *FDU* to which this *FSP* applies, and conducting any of the following activities:

(i) *road* and *cutblock* development;
(ii) *cutblock* harvesting and *road* construction supervision; and
(iii) *road* inspections.

**"*priority invasive plants*"** means those plants specified by *FDU* in Table 6.1.2a.
*"**insufficiently revegetated**"* means an amount of vegetative cover that is inadequate to prevent the introduction or establishment of invasive plants, as determined by a *qualified professional*.

### 6.1.2 Invasive Plants Measures

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary
In relation to the requirement established by *government* to specify measures to prevent the introduction or spread of invasive plants, the *FSP holder* will ensure that:

1. *personnel* are trained in the identification of the *priority invasive plants* specified in Table 6.1.2b that apply to the *FDU* in which the *personnel* conduct their activities, within six months of either:
    a) the *FSP* commencement date; or
    b) the initial commencement of their activities on behalf of the *FSP holder*, if those activities occur after the *FSP* commencement date;
2. *personnel* report a previously unidentified infestation of a *priority invasive plant* through the *Report Invasives BC application,* within 60 days of that new infestation being identified;
3. an *invasive plant zone* is documented within the Site Plan that applies to a *cutblock* or *road*, where an *invasive plant occurrence site* is located within 500 metres of the *cutblock* or *road*;
4. contractors and *personnel*:
    a) do not park vehicles or equipment on invasive plant infestations;
    b) visually inspect for and manually remove any vegetation from vehicles, mechanized equipment, culverts, bridges and cattleguards prior to transport to or from a *road* or *cutblock*;
    c) that are engaged in *road* construction visually inspect *road* fill and erosion control materials before transport and use, to ensure they are free of invasive plants; and

d) avoid locating log decks on invasive plant infestations, where *practicable*;

5. *grass seed* is applied based on the criteria specified in Table 6.1.2a, to areas of exposed mineral soil that are the result of the *FSP holder*s' *road* construction or timber harvesting, unless *grass seeding* is unlikely to increase vegetative cover, due to the exposure site consisting of:
    a) compact glacial till;
    b) rock;
    c) steep *road* cuts where seed will not adhere; or
    d) some other substrate that is unsuitable for supporting vegetation*;* and
6. if, within 24 months of grass seeding an area of exposed mineral soil as required by subparagraph (5), it is identified during road inspections that the area is *insufficiently revegetated*, then the area will be re-seeded one additional time within 12 months of the road inspection.

**Table 6.1.2a Grass Seed Application Criteria**

| Activity that results in mineral soil exposure | Description of Soil Exposure Areas to be Seeded | Grass seed application timing post exposure | Location of exposed mineral soil |
|---|---|---|---|
| Permanent *road* construction, reconstruction, deactivation | *Road* cut slopes, fill slopes, ditch lines and permanent landings at least 0.01 ha of contiguous area. | within 12 months of exposure and during the first available spring or fall where *practicable* | Within an *invasive plant zone* at the time the activity takes place |
| Timber Harvesting | Excavated trails, debris pile burn areas, that area at least 0.01 ha of contiguous area, except areas that the *FSP holder* is contractually obligated to reforest | within 12 months of exposure and during the first available spring or fall where *practicable* | Within an *invasive plant zone* at the time the activity takes place |

**Table 6.1.2b *Priority Invasive Plants***

| Regulated Invasive Plant | *FDU*'s 1 and 2 | *FDU*'s 3 and 4 | *FDU* 5 | *FDU* 6 |
|---|---|---|---|---|
| Baby's breath | X | X | X | X |
| Black knapweed | X | X | X | X |
| Blueweed | X | X | X | X |
| Brown knapweed | X | X | X | X |
| Common bugloss (Anchusa) | | X | | X |
| Common tansy | X | | X | X |
| Field scabious | X | X | X | X |
| Gorse | | | X | |
| Hoary alyssum | X | X | X | X |
| Hoary cress | X | X | X | X |
| Japanese knotweed | | X | X | X |
| Leafy spurge | X | X | X | X |
| Marsh plume thistle | | X | X | |
| Meadow knapweed | | X | X | X |
| Nodding thistle | X | | X | |
| Orange hawkweed | X | X | X | X |
| Perennial pepperweed | X | X | | |
| Plumeless thistle | | | X | X |
| Puncturevine | | X | X | |

| | | | | |
|---|---|---|---|---|
| Purple loosestrife | | | X | |
| Rush skeletonweed | X | X | X | |
| Russian knapweed | | | X | X |
| Scotch broom | X | X | X | |
| Scotch thistle | X | X | X | |
| Spotted knapweed | X | | X | X |
| St. John's wort | | | X | X |
| Sulphur cinquefoil | X | X | X | X |
| Tansy ragwort | X | X | X | |
| Teasel | X | X | X | X |
| Yellow Hawkweed | | | X | X |
| Yellow Iris | | X | X | |
| Yellow starthistle | | X | | |
| Yellow toadflax | X | X | X | X |

## 6.2 Natural Range Barriers

| **Source of Legal Requirement:** *FPPR* section 18 |
|---|
| For the purposes of section 48 of the *Act* [natural range barriers], a person who prepares a forest stewardship plan must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers. |
| **Source of Objective:** *FRPA* section 48 |
| A person carrying out<br>(a) a forest practice, or<br>(b) a range practice that directly or indirectly removes or renders ineffective a natural range barrier must carry out measures that are<br>(c) specified in an operational plan for the area, or<br>(d) authorized by the *minister* to mitigate the removal or the ineffectiveness of the natural range barrier. |
| **Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**, **#6-Boundary** |

### 6.2.1 Definition

For the purposes of this measure:

**"*natural range barrier*"** or "***NRB***" means a naturally occurring feature such as a river, rock face, or dense timber that stops or impedes livestock movement to and from an adjacent area for range management purposes.

**"*NRB referral*"** means communication to a *range agreement* holder or the Ministry responsible for range that:

a) identifies the location of proposed *cutblock* harvesting and *road* construction that has not been previously identified through referral;
b) includes a request that the *range agreement* holder or the Ministry responsible for range identify:
    (i) the location of *natural range barriers* that may be rendered ineffective by the proposed *cutblock* harvesting or *road* construction;
    (ii) preferred actions to mitigate a potential NRB breach; and
    (iii) preferred timing to undertake the *mitigation actions*.
c) specifies a *timeline* to respond to the *NRB referral*.

**"*mitigation actions*"** means activities or range development installations constructed or installed consistent with Ministry standards and subject to Ministry approval, that have the purpose of replacing a *natural range barrier* rendered ineffective by harvesting or *road* construction. These actions may include but are not limited to any or all of:

a) adjusting *cutblock* boundaries or *road* locations prior to cutting authority approval; or

b) installing range developments such as logging debris fences, remedial fences, cattle guards or gates, where the cost of the range development has been captured in a cutting authority appraisal.

**"*NRB mitigation strategy*"** is a plan developed to mitigate the removal or the rendering ineffective of a *natural range barrier*, that specifies:

a) what *mitigation actions* are to be undertaken;
b) who is responsible for undertaking the *mitigation actions*;
c) where the *mitigation actions* will occur; and
d) when the *mitigation actions* will be completed.

### 6.2.2 Natural Range Barrier Measures

Applicable *FDU*s: #1-Kamloops, #2-Merritt, #3-Okanagan, #4-TFL 49, #5-Arrow**,** #6-Boundary

In relation to the requirement established by *government* to specify measures to mitigate the effect of removing or rendering ineffective *natural range barriers*, the *FSP holder* will:

1. where a *range agreement* is assigned to an area of crown range, prior to harvesting a *cutblock* or constructing a *road* within that *range agreement* area:
    a) conduct an *NRB referral* with respect to the proposed *cutblock* harvesting or *road* construction with the potentially affected *range agreement holder*;
    b) where that *range agreement holder* responds within the *timeline* specified in the *NRB referral* and identifies a *natural range barrier* that will be removed or rendered ineffective by that *cutblock* harvesting or *road* construction, develop a *NRB mitigation strategy* that incorporates the information communicated by the *range agreement holder*, to the extent that it is *practicable* to do so;
    c) communicate the *NRB mitigation strategy* to the *range agreement holder;*
    d) provide maps of the proposed location of *cutblock* harvesting and *road* construction that crosses range tenure or pasture boundaries to staff of the Ministry responsible for range, where requested by that staff;
2. where a *range agreement* is not assigned to a crown range area, prior to harvesting a *cutblock* or constructing a *road* within that crown range area:
    a) conduct an *NRB referral* with respect to the proposed *cutblock* harvesting or *road* construction with the Ministry responsible for range;
    b) where the Ministry responsible for range responds within the *timeline* specified in the *NRB referral* and identifies a *natural range barrier* that will be removed or rendered ineffective by that *cutblock* harvesting or *road* construction, develop a *NRB mitigation strategy* that incorporates the information communicated by the Ministry responsible for range, to the extent that it is *practicable* to do so; and
3. where the *NRB mitigation strategy* specifies that the *FSP holder* has the responsibility of undertaking a *mitigation action*, undertake that *mitigation action* consistent with the *NRB mitigation strategy*.

# 7 STOCKING STANDARDS

| Background Information Regarding – Stocking Standards |
|---|
| Legal Reference: FPPR section 16 (Stocking standards), section 44 (Free growing stands generally), section 45 (Free growing stands collectively across cutblocks), and FRPA section 29(1) (Free growing stands). |
| FSP Amendment #6 applies the finalized Thompson Okanagan Regional Stocking Standards and variances (dated December 29, 2021) to FDUs #1 through #4. The stocking standards originally approved for FDU's #1 through #4 are effective until the approval date of FSP Amendment #6, at which point new cutblocks will have the Amendment #6 stocking standards applied to them.<br>The original standards will continue to apply to cutblocks harvested under those standards, unless the FSP holder elects to apply the Amendment #6 standards to specific cutblocks via a site plan amendment and associated RESULTS submission. |

## 7.1 Establishment of Free Growing Stands

A *holder* of this *FSP* that harvests a *cutblock* to which this *FSP* applies will establish a free growing stand as required by section 29 of the *Act*, in accordance with the stocking standards set out in this Part and in Appendix A to this *FSP*, as of the commencement of the term of this *FSP*.

The stocking standards as specified in this section and in Appendix A to this *FSP* may also be applied to *cutblocks* harvested under a previous *FSP* or FDP for *licence*s specified in Table 3. For a *cutblock* harvested under the authority of an FDP or previous *FSP*, the amendment from a previous stocking standard to an applicable stocking standard under this *FSP* will take effect with an associated RESULTS submission by the *holder* of this *FSP*.

## 7.2 Stocking Standards FDU's #1, #2, #3, and #4

This FSP adopts the Thompson Okanagan Regional Stocking Standards dated December 9th, 2021, and applies them to FDU #1-Kamloops, FDU #2-Merritt, FDU #3-Okanagan, and #4-TFL 49.

TOR even-aged stocking standards tables are presented in *FSP* Appendix A-1.

TOR Uneven-aged stocking standards tables are presented in *FSP* Appendix A-2.

Stocking standards footnotes, which are integral to the stocking standards tables, are presented in *FSP* Appendix A-3.

## 7.3 General Standards and Variances FDU's #1, #2, #3, and #4

This *FSP* adopts the Thompson Okanagan Region General Standards and Variances dated December 9th, 2021, and applies them to FDU #1-Kamloops, FDU #2-Merritt, FDU #3-Okanagan, and #4-TFL 49. These General Standards and Variances are presented in *FSP* Appendix A-4.

### 7.3.1 FDU #1 *Kamloops Higher Level Plan Order* Mule Deer Winter Range Variance

Consistent with the intent of Variance V-6, which provides for the consideration of Douglas-fir as a preferred species in mule deer winter range GAR Order units within the Thompson Okanagan Region, for FDU #1-Kamloops, within the area identified as critical deer winter range on *KHLPO Map 1: Critical Deer & Moose Winter Range for Kamloops Higher Level Plan* dated January 8, 2009, Douglas-fir will be considered a preferred species for the purposes of the stocking standards in addition to the species listed in the Appendices A-1 and A-2 stocking standards tables.

## 7.4 Stocking Standards *FDU* #5-Arrow

### 7.4.1 Stocking Standards – Election

For the purposes of s.16(1) of the *FPPR*, section 44(1) of the *FPPR* will apply to each area to which this *FSP* applies where an *agreement holder* is required under s. 29(1) of the *Act* to establish a free growing stand.

### 7.4.2 Stocking Standards – General

Subject to Paragraph 7.4.4, for the purposes of s.16(3) of the *FPPR*, for each area to which this *FSP* applies where an *agreement holder* is required under s. 29(1) of the *Act* to establish a free growing stand, that *agreement holder* will do so in accordance with the stocking standards set out in Appendices A-5 and A-6 of this *FSP*. "Regen delay" specified Appendix A is synonymous with regeneration date.

### 7.4.3 Stocking Standards for Areas of Intermediate Cutting or Harvesting of Special Forest Products

For timber harvesting referred to in section 16(4) and 44(4) of the *FPPR*, a minimum of 20 $m^2$ of basal area of ecologically suitable species (as determined by preferred or acceptable species in Appendix A-6 for the site series) will be retained at the conclusion of harvesting.

### 7.4.4 Variations from General Stocking Standards

Despite Paragraph 7.4.2 an *agreement holder* may apply the following stocking standards in the following situations or circumstances:

a) the minimum inter-tree distance will be:
   (i) 1.0 metre on *cutblock*s that are developed as silvo-pastures;
   (ii) 1.6 metres on sites that:
      A. are hygric or sub-hydric; or
      B. are within ESSF subzones dc1, dc2, vc, vv, wc2 and wc4;
      C. comprise no more than 20% of the survey plots in a block; and
      D. are clearly recorded on the survey cards
   (iii) 2.0 metres on all other sites.

b) where more than one site series is located within a standards unit, and the additional site series are less than one hectare in size, the stocking standard in Appendices A-5 and A-6 that applies is the Standard applicable to the dominant site series. Additional preferred species may be added to the preferred species of the Standard from Appendices A-5 and A-6 from the subdominant site series for those specific areas of the mosaic or complex. Additional acceptable species may be added to the acceptable species of the Standard from Appendices A-5 and A-6 from the subdominant site series for those specific areas of the mosaic or complex.

c) on transitional sites occurring between two *BEC* units where each *BEC* unit cannot be clearly delineated or mapped, the stocking standard in Appendices A-5 and A-6 that applies is that applicable to the dominant *BEC* unit. Additional preferred species may be added to the preferred species of the Standard from Appendices A-5 and A-6 from the sub-dominant *BEC* unit. Additional acceptable species may be added to the acceptable species of the Standard from Appendices A-5 and A-6 from the sub-dominant *BEC* unit.

d) the following maximum densities apply:
   (i) 25,000 countable stems per hectare for Lodgepole Pine leading stands (Lodgepole Pine > 80% of the inventory); or
   (ii) 10,000 countable stems per hectare for all other stands.

e) Douglas-fir (Fdi) is a preferred species within all *GAR* Mule Deer Ungulate Winter Ranges.

f) where patches of mature trees are retained, under the clearcut silviculture system, for WTR or structural diversity purposes and such patches are included in the *NAR*, when plots land in such a patch, silviculture surveyors will record a Forest Cover Label for the patch but otherwise, for the purposes of determining stocking/free growing, may offset, in a predetermined and consistent manner, any plots that fall wholly or partially within these patches.

g) where a layer 1 preferred or acceptable species comprises at least 10% of the pre-harvest stand but is excluded from planting due to the elevational restrictions of footnotes 13 or 14, of the

applicable stocking standard in Appendices A-5 and A-6, that species may be planted to a maximum of 35% if it is a preferred species or to a maximum of 15% if it is an acceptable species.

h) Despite subparagraph 7.4.4 a), an election to apply Appendices A-5 and A-6 *FSP* Stocking Standards to specific *cutblock*s harvested under the *FPC* can be made via amendments to either a Silviculture Prescription or a Site Plan.

i) where a *cutblock* is developed as a silvo-pasture:
   (i) preferred and acceptable species will be those listed in the applicable stocking standard from Appendices A-5 and A-6 of this *FSP*;
   (ii) target stocking will be 400 well-spaced stems per hectare;
   (iii) minimum preferred and acceptable stocking will be 0 (zero) well-spaced stems per hectare;
   (iv) regen delay will be up to 4 years from the commencement date;
   (v) early free growing will be 0 (zero) years from the commencement date;
   (vi) late free growing will be no more than 4 years from the commencement date;
   (vii) minimum free growing height will be at least 15 centimeters; and

j) within FDUs #5, in addition to being at least the required minimum height, trees must be greater than the specified percentage height relative to competing vegetation in order to be free growing:

| % Ht Above Competing Vegetation | Location/Condition |
|---|---|
| 125 | ESSF |
| 150 | ICH |

## 7.5 Stocking Standards FDU #6-Boundary

The FSP holder adopts the Selkirk District South Columbia 2018 default stocking standards (reproduced in Appendices A-9, A-10 and A-11) as they were at the time of submission of this FSP amendment.

### 7.5.1 Comments specific to DSE South Columbia default standards

1) Early Free Growing
- Has been left in for information purposes only. In RESULTS it is in the Comments section only and does not preclude making FG declarations early.

2) MultiLayer / Single Tree Selection standards
- In this document, only the corresponding Layer 4 information shows. *For the Layer 1-3 information see either RESULTS, or the table at the end of this workbook

3) Three red dots
- Three red dots indicate that the ssid number "skips" and is nonsequential (both in this document and in RESULTS). However, there are no missing Stocking Standard ID's in between the two.

4) Even aged standards
- use where even aged layer 4 will be the next crop and where Layers 1/2 combined are < 12m2/ha.
- Multi-layer/single tree selection: use for uneven-aged systems where retention in Layers 1/2 combined is between 12-18m-22m*2 /ha. *18m2.ha for the drybelt, 22 m2/ha for the wetbelt.
- Intermediate cut standards (not in this document, but are pending) For even aged management, where the combined Layer 1/2 overstory will be retained, use Intermediate cut standards (pending).

5) Criteria for Layer 4, Balsam fir advance regen is currently included in the "Baseline" ssids, and ssids with modified mitd, and in the multlayer/single tree selection standards. IGNORE them for the multilayer/single tree selection ssid. (they will be deleted as time permits).

Minimum inter-tree distance

Trees must be the greater than the approved minimum inter-tree distance apart in order to be well spaced:

| Minimum inter-tree distance (m) | Location/condition |
|---|---|
| 1.7 | Fill planting or planting on mechanically site prepared areas in the S Central Columbia Mountains |
| 2.0 | All other areas (except those areas where site factors or objectives require a different minimum inter-tree distance) |

Height of Trees Above Brush

In addition to being at least the required minimum height, trees must be greater than the approved minimum percentage height above brush in order to be free growing:

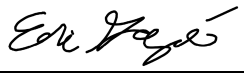
| % Ht above brush | Location/condition |
|---|---|
| 125% | BG ESSF IDF MH MS PP BGC zones |
| 150% | all other areas |

# 8 SIGNATURES

## 8.1 Signature of Preparing Forester

| | |
|---|---|
| **Preparing Forester**<br><br>*"I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work"* |  |
| | **Eric Gagné, R.P.F. 3185**<br><br>**Forestry Superintendent, SI Woodlands**<br><br>**Tolko Industries Ltd.** |

## 8.2 Signature of Person Required to Prepare the Plan

| | |
|---|---|
| **Authorized Licencee Signature** |  |
| | **Eric Gagné, R.P.F. 3185**<br><br>**Forestry Superintendent, SI Woodlands**<br><br>**Tolko Industries Ltd.** |

# APPENDICES

## Appendix A – Stocking Standards

**Appendix A-1 FDU's #1 through #4 - Thompson Okanagan Regional Stocking Standards Tables – Even-Aged Stands**

### Appendix 1: Thompson Okanagan Regional Stocking Standards Even Age (Dec. 9th, 2021)

| *BGC Classification* | | *Regeneration and Free Growing Stocking Standard* | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Zone/SZ | Site Series | Stocking Standards ID | Preferred (p) Species | Acceptable (a) Species | Density Target (well-spaced/ha) | Density MIN pa (well-spaced/ha) | Density MIN p (well-spaced/ha) | Regen Delay (max yrs) | Free Growing Date Latest (yrs) | MITD | Minimum Height at Free Growing Species-Height (m) |
| BGxh1 | 102 | 1068548 | Py[27] | Fd[27] | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.60 |
| BGxh1 | 103 | 1069884 | Py[27]Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.60 |
| BGxh1 | 110 | 1068549 | Py[27]Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.60 |
| BGxh2 | 102 | 1069712 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.60 |
| BGxh2 | 110 | 1069885 | Fd[27] | Py[27] | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.60 |
| BGxw1 | 102 | 1069886 | Py[27] | Fd[27] | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.60 |
| BGxw1 | 110 | 1069887 | Py[27] Fd [27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.60 |
| BGxw1 | 111 | 1069888 | Fd | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.60 |
| CWHds1[47] | 01 | 1069901 | Fd | Cw Pw[31] | 900 | 500 | 400 | 3 | 20 | 2.0 | Pw-2.5, Fd-2.25, Cw-1.5 |
| CWHds1[47] | 02* | 1069902 | Pl Fd | | 400 | 200 | 200 | 3 | 20 | 1.0 | Fd-1.5, Pl-1.25 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CWHds1[47] | 03 | 1069903 | Fd Pl[6,60] | Py[7,18,23] Cw | 800 | 400 | 400 | 3 | 20 | 2.0 | Fd-1.5, Pl-1.25, Py-1.0, Cw-1.0 |
| CWHds1[47] | 04 | 1069904 | Fd | Cw Pw[31] | 800 | 400 | 400 | 3 | 20 | 2.0 | Pw-2.5, Fd-2.25, Cw-1.5 |
| CWHds1[47] | 05 | 1069905 | Fd Se[13,18] | Cw Pw[13,31] | 900 | 500 | 400 | 3 | 20 | 2.0 | Pw-2.5, Fd-2.25, Cw-1.5, Se-1.0 |
| CWHds1[47] | 06 | 1069906 | Hw Fd | Cw | 900 | 500 | 400 | 6 | 20 | 2.0 | Fd-2.25, Cw-1.5, Hw-1.0 |
| CWHds1[47] | 07 | 1069907 | Cw Fd | Bg Hw | 900 | 500 | 400 | 3 | 20 | 2.0 | Fd-3.0, Bg-2.0, Cw-2.0, Hw-1.25 |
| CWHds1[47] | 08 | 1069908 | Cw | Ss[35] Bg | 900 | 500 | 400 | 3 | 20 | 2.0 | Ss-3.0, Others-2.0 |
| CWHds1[47] | 09 | 1069909 | Cw[1] | Bg[1] | 900 | 500 | 400 | 3 | 20 | 2.0 | All-2.0 |
| CWHds1[47] | 10 | | no conifers | | - | - | - | - | 20 | - | - |
| CWHds1[47] | 11* | 1069910 | Pl[1] | Cw[1] | 400 | 200 | 200 | 3 | 20 | 1.0 | Pl-1.25, Cw-1.0 |
| CWHds1[47] | 12 | 1069911 | Cw[1] | Pl[7] | 800 | 400 | 400 | 3 | 20 | 1.0 | Pl-1.25, Cw-1.0 |
| CWHms1[47] | 01 | 1069912 | Cw Fd Se[13,18] Hw[10,13] Ba[10,13] | Yc[60] | 900 | 500 | 400 | 3 | 20 | 2.0 | Fd-2.25, Cw-1.5, Hw-1.5, Yc-1.5, Se-1.0, Ba-0.75 |
| CWHms1[47] | 02* | 1069913 | Pl Fd | | 400 | 200 | 200 | 3 | 20 | 1.0 | Fd-1.5, Pl-1.25 |
| CWHms1[47] | 03 | 1069914 | Cw Fd Se[13,18] | Ba[10] | 800 | 400 | 400 | 3 | 20 | 2.0 | Fd-2.25, Cw-1.5, Se-1.0, Ba-0.75 |
| CWHms1[47] | 04 | 1069915 | Cw Fd Se[13,18] Ba[10,13] | Hw[10,13] Pw[31] | 900 | 500 | 400 | 3 | 20 | 2.0 | Fd-3.0, Pw-2.5, Cw-2.0, Hw-2.0, Se-1.25, Ba-1.0 |
| CWHms1[47] | 05 | 1069916 | Cw Hw Yc[13,17] Ba[10,13] | | 900 | 500 | 400 | 6 | 20 | 2.0 | Ba-0.75, Others-1.5 |
| CWHms1[47] | 06 | 1069917 | Cw Fd Yc[13,17] Se[13] | Ba[13] Bg[14,17] | 900 | 500 | 400 | 3 | 20 | 2.0 | Fd-3.0, Bg-2.5, Cw-2.0, Yc-2.0, Se-1.25, Ba-1.0 |
| CWHms1[47] | 07 | 1069918 | Ba[13] Cw Ss[35] | Fd[1] Se[18] | 900 | 500 | 400 | 3 | 20 | 2.0 | Ss-4.0, Fd-3.0, Cw-2.0, Se, 1.25, Ba-1.0 |
| CWHms1[47] | 08 | 1069919 | Cw[1] | Ba[1] | 900 | 500 | 400 | 3 | 20 | 2.0 | Cw-2.0, Ba-1.0 |
| CWHms1[47] | 09 | | no conifers | | - | - | - | - | - | - | |
| CWHms1[47] | 10* | 1069920 | Pl[1] | Cw[1] | 400 | 200 | 200 | 3 | 20 | 1.0 | Pl-1.25, Cw-1.0 |
| CWHms1[47] | 11 | 1069921 | Cw[1] Yc[13,17] | Pw[31] Se[1] | 800 | 400 | 400 | 3 | 20 | 1.0 | Pw-2.5, Cw-1.0, Yc-1.0, Se-0.75 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdc1 | 101 | 1065442 | Bl[201,208] Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFdc1 | 102 | 1065434 | Sx Pl Pa[13,201] | Bl[208] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFdc1 | 103 | 1065439 | Sx Pl Pa[13,201] | Bl[208] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFdc1 | 104 | 1065441 | Pl Sx | Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFdc1 | 110 | 1065443 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFdc1 | 111 | 1065444 | Bl[32,208] Sx[32] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFdc1 | 112 | 1065446 | Bl[1,32,208] Sx[1,32] | | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.6 |
| ESSFdc2 | 101 | 1065452 | Sx Bl[201 208] | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFdc2 | 102 | 1065447 | Pl Pa [31] | Fd[14 32] Bl [28 208] Sx[28] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFdc2 | 103 | 1065448 | Pl Sx [28] Fd [14 32] | Bl[208] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFdc2 | 104 | 1065449 | Pl Sx Bl [201 208] | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFdc2 | 110 | 1065453 | Bl[201 208] Sx | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.6 |
| ESSFdc2 | 111 | 1068155 | Bl[201 208] Sx | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.6 |
| ESSFdc2 | 112 | 1065454 | Bl[1 208] Sx [1 32] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.6 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 01 | 1065458 | Se Bl[201 208] Pl [201] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 02 | 1065455 | Pl | Bl [28 208] Se [28] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 03 | 1065456 | Pl Se Bl [201 208] | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 04 | | does not occur in areas mapped as ESSFdc3 | does not occur in areas mapped as ESSFdc3 | | | | | | - | |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 05 | 1065457 | Se Bl[201 20]8 Pl [201] | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 06 | 1065460 | Bl[208] Se | Pl[200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 07 | 1065461 | Bl[208] Se | Pl[200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 08 | 1065462 | Bl[1 208] Se[1 32] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.6 |
| **ESSFdc3** (use classification for ESSFdc2 in LMH23) | 09 | | nonforest | nonforest | | | | | | - | |
| ESSFdcw | 101 | 1065465 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFdcw | 102 | 1065463 | Bl[208] Sx Pa[201] | Pl[34] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFdcw | 103 | 1065464 | Bl[208] Sx | Pa | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.8 |
| ESSFdcw | 110 | 1065466 | Bl[208] Sx | | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.6 |
| ESSFdh1 | 101 | 1065470 | Pl[34 201] Bl[201 208] Ba[201 202] Sx | Pw[31] Hw Cw[32] Fd[32 34] Lw [32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Lw-2.0, Others-1.0 |
| ESSFdh1 | 102 | 1065467 | Pl[34] Fd [9 14] | Bl[208] Sx[13]Pw [31 34] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFdh1 | 103 | 1065468 | Pl[34] Sx[28] | Bl[28 208] Fd[9,32 34] Pw[31] Lw [9 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| ESSFdh1 | 104 | 1065469 | Fd[14 32] Pl [34] Bl [201 208] Sx | Pw [31] Ba[10 28 202] Cw[10 28] Hw[10 28] Lw [14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| ESSFdh1 | 110 | 1065671 | Sx Bl[201 208] Ba[201 202] | Hw[32] Fd[32] Pl[34] Cw[32] Lw [32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Lw-2.0, Others-1.0 |
| ESSFdh1 | 111 | 1065672 | Sx[1] Bl[1 201 208] Pl[1 34 201] | Hw[1 32] Cw[1 32] Ba[1 32 202] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| **ESSFdh2** (use classification for ESSFmw) | 01 | 1065721 | Sx Bl [201 208] Ba[13 201 202] | Hw[14 32] Cw[14 32] Pw [31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ESSFdh2** (use classification for ESSFmw) | 02 | 1065673 | Pl [34 201] Fd [9 14] | Bl[28 208] Sx[13] Pw[31] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| **ESSFdh2** (use classification for ESSFmw) | 03 | 1065719 | Pl[34 201] Fd[32] | Sx[28] Bl[28 208] Pw[31] Lw [32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **ESSFdh2** (use classification for ESSFmw) | 04 | 1065720 | Fd[14 32] Pl[34 201] Bl[13 201 208] Sx[13] | Pw[31] Lw [14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **ESSFdh2** (use classification for ESSFmw) | 05 | 106889 | Sx Bl [201 208] Ba[13 201 202] | Hw[14 32] Cw[14 32] Pw [31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ESSFdh2** (use classification for ESSFmw) | 06 | 1065722 | Bl [201 208] Sx | Ba [32 202] Cw[32] Hw[32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ESSFdh2** (use classification for ESSFmw) | 07 | 1065723 | Bl [201 208] Sx Ba [32 202] Cw[32] | Hw[32] Fd[32] Pw[17] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ESSFdh2** (use classification for ESSFmw) | 08 | 1065724 | Sx[1] Bl[1 201 208] Pl[1 34 201] | Hw[1 32] Cw[1 32] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFdv1** (use classification for ESSFdv) | 01 | 1065756 | Sx Bl [201 208] | Pl Pa[31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdv1** (use classification for ESSFdv) | 02 | 1065725 | Pl Pa[31] | Bl [28 208] Sx [28] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdv1** (use classification for ESSFdv) | 03 | 1065726 | Pl Fd[14 32] Pa[31] | Bl[28 208] Sx[28] Lw [14 32 203] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdv1** (use classification for ESSFdv) | 04 | 1065727 | Bl[201 208] Sx Pa [31] | Pl Fd[14 32] Lw[14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| **ESSFdv1** (use classification for ESSFdv) | 05 | 1065757 | Sx Bl [201 208] | Pa [13 31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| **ESSFdv1** (use classification for ESSFdv) | 06 | 1065758 | Sx[1] Bl [1 201 208] | Pl [1] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdv2** (use classification for ESSFdv) | 01 | 1065762 | Sx Bl [201 208] Pa [31] | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdv2** (use classification for ESSFdv) | 02 | 1065759 | Pl Pa[31] | Se[28] Bl [28 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdv2** (use classification for ESSFdv) | 03 | 1065760 | Pl Pa[31] | Bl[208] Sx | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFdv2** (use classification for ESSFdv) | 04 | 1065761 | Pl[201] Pa[31] Bl [201 208] | Sx | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.2, Others-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFdv2** (use classification for ESSFdv) | 05 | 1065763 | Sx Bl [201 208] | Pa [13 31] Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFdv2** (use classification for ESSFdv) | 06 | 1065764 | Sx[1] Bl [1 201 208] | Pl [1] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFmh | 101 | 1065781 | Cw[14,34,203] Bl[208] Lw[9,14,34] Sx | Pl[34] Hw[9,14] Fd[9,14] Pw[9,14,31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFmh | 102 | 1065769 | Fd[9] Lw[9] Pl | Sx Bl[208] Pa[13] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw-1.6, Pl-1.6, Fd-1.2, Others-0.8 |
| ESSFmh | 103 | 1065772 | Fd Lw Pl[34] Sx | Cw Bl Pw[14,31] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFmh | 104 | 1065777 | Sx Pl[34] | Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| ESSFmh | 105 | 1065779 | Fd[9] Lw[9] Pl[34] Sx | Cw[9] Bl[208] Pw[31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFmh | 110 | 1065784 | Bl[208] Sx | Hw[14,32] Cw[14,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| ESSFmh | 111 | 1065785 | Bl[208] Sx | Cw[14,32] Hw[14,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| ESSFmh | 112 | 1065786 | Bl[1,32,208] Sx[1,32] | | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.8 |
| ESSFmm1 | 01 | 1065825 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFmm1 | 02 | 1065787 | Bl[28] Pl Sx[28] | | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFmm1 | 03 | 1065823 | Pl Sx[28] | Bl[28] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFmm1 | 04 | 1065824 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFmm1 | 05 | 1065826 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFmm1 | 06 | 1065827 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 1.0 | Pl-1.6, Others-0.8 |
| ESSFmm1 | 07* | 1065828 | Bl[1,32] Sx[1,32] | Pl[1] | 400 | 200 | 200 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFmw1 | 101 | 1065834 | Sx Bl [201 208] Ba [201 202] | Pl[34 200] Hm[10,13 28] Hw[10 14] Pw[14 31] Cw[14 32] Fd[9 14 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFmw1 | 102 | 1065829 | Pl Bl[13 201 208] Sx[13] Pa[13 31 201] | Fd[14] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| ESSFmw1 | 103 | 1065831 | Pl[34 201] SxBl[201 208] Pa[13 31 201] | Ba[32] Fd[9,14,32 34] Lw[9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| ESSFmw1 | 104 | 1065832 | Pl Fd[14] Sx[28] | Bl[28 208] Ba[28 202] Pa[13,31] Lw[14 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| ESSFmw1 | 105 | 1065833 | Sx Bl[201 208] Ba[201 202] | Pl[34 200] Fd[14,32] Hm[13 28] Hw[10 28] Pw[14 31] Cw[14 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| ESSFmw1 | 110 | 1065836 | Bl[201 208] Sx | Pl[34] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| ESSFmw1 | 111 | 1065837 | Bl[1 201 208] Sx[1] | Pl[1,34] Pw[1 31] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| **ESSFmw2** (use classification for ESSFmw) | 01 | 1065841 | Sx Bl[201 208] Ba[201 202] | Pl[34] Hm Hw[14 32] Pw[14 31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFmw2** (use classification for ESSFmw) | 02 | 1065838 | Pl Bl[201 208] Pa[13 31 201] | Sx | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| **ESSFmw2** (use classification for ESSFmw) | 03 | 1065839 | Fd[14,32 34] Pl[34 201] Sx Bl[201 208] | Ba[32 202] Lw[14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **ESSFmw2** (use classification for ESSFmw) | 04 | 1065840 | Pl[34 201] Sx Bl[201 208] Pa[13 31 201] | Ba[32 202] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFmw2** (use classification for ESSFmw) | 05 | 1065842 | Sx Bl[201 208] Ba[201 202] | Pl[34] Hm Pw[31] Hw[14 32] Cw[14 32] Fd[9 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFmw2** (use classification for ESSFmw) | 06 | 1065843 | Sx Bl[201 208] | Hm Hw[32] Ba[32 202] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ESSFmw2** (use classification for ESSFmw) | 07 | 1065844 | Sx Bl[201 208] Ba[201 202] | Hm Hw[32] Cw[32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFmw2** (use classification for ESSFmw) | 08 | 1065845 | Bl[1 201 208] Sx[1] | Pl [134] Ba [1 32] Pw[31] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| **ESSFwc2** | 01 | 1065847 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| **ESSFwc2** | 02 | 1065846 | Sx Pl[34] Bl[201 208] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFwc2** | 03 | 1068544 | Bl[208] Sx | Pl[34] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFwc2** | 04 | 1068545 | Bl[208] Sx | Pl[34] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFwc2** | 05 | 1068546 | Bl[208] Sx | Pl[34] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| **ESSFwc2** | 06 | 1065848 | Sx[32] Bl [208] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| **ESSFwc2** | 07 | 1065849 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| **ESSFwc2** | 08 | 1065850 | Bl[1 208] Sx[1 32] | | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.8 |
| **ESSFwc2** | 09 | 1065851 | Pl[1] Sx[1 32] Bl [201 208] | | 400 | 200 | 200 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFwc2** | 10 | | nonforest | nonforest | | | | | | - | |
| ESSFwc3 | 01 | 1065853 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFwc3 | 02 | 1065852 | Bl Sx Pl | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFwc3 | 03* | 1065854 | Bl Sx | | 600 | 400 | 400 | 7 | 20 | 1.6 | All-0.6 |
| ESSFwc4 | 101 | 1065857 | Bl[201,208] Se | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFwc4 | 102 | 1065855 | Sx Pa[201] | Pl[16,34] Bl[208] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFwc4 | 103 | 1065856 | Bl[208] Sx | Pl[16,34,200] Pa | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFwc4 | 110 | 1065858 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFwc4 | 111 | 1065859 | Bl[1,32,208] Sx[1,32] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFwc4 | 112 | 1065860 | Bl[1,32,208] Sx[1,32] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.6 |
| ESSFwcw | 101 | 1065864 | Bl[208] Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFwcw | 102 | 1065861 | Bl[208] Sx Pa[201] | Pl[34] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFwcw | 103 | 1065862 | Bl[208] Sx Pa[201] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.8 |
| ESSFwcw | 104 | 1065863 | Bl[208] Sx | La[16] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.8 |
| ESSFwcw | 110 | 1065865 | Bl[208] Sx | | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.6 |
| ESSFwh1 | 101 | 1065869 | Bl[201,208] Cw[14,34,203] Hw[14,201] Sx | Pl[16,34] Fd[9,14,16] Lw[9,14,16] Pw[31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFwh1 | 102 | 1065866 | Fd Pl Se | Bl[208] Pa[13] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.6, Fd-1.2, Others-0.8 |
| ESSFwh1 | 103 | 1065867 | Sx Fd[14,34] Lw[14,34] | Pl[16,34,200] Bl[208] Pw[14,31] Pa[13] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFwh1 | 104 | 1065868 | Sx Cw[14,201] Fd[9,14,201] Lw[9,14,201] | Pl[34] Bl[202]Hw[9,14] Pw[9,14,31] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ESSFwh1 | 110 | 1065870 | Bl[208] Sx | Cw[14,32] Hw[14, 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| ESSFwh1 | 111 | 1065871 | Bl[1,32,208] Sx[1,32] | Hw[1,32] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| ESSFwk1 | 01 | 1065875 | Bl Sx Pl | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2, Others-1 |
| ESSFwk1 | 02* | 1065872 | Bl Pl Sx | Lw | 1000 | 500 | 400 | 7 | 20 | 1.0 | Lw-2, Pl-1.4, Others-0.8 |
| ESSFwk1 | 03 | 1065873 | Pl Sx Bl | Lw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Lw-2, Others-1 |
| ESSFwk1 | 04 | 1065874 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2, Others-1 |
| ESSFwk1 | 05 | 1065876 | Bl Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2, Others-1 |
| ESSFwk1 | 06 | 1065877 | Bl Sx | | 1000 | 500 | 400 | 4 | 20 | 1.6 | All-0.8 |
| ESSFwk1 | 07 | 1065878 | Bl Sx | | 1000 | 500 | 400 | 4 | 20 | 1.6 | All-0.8 |
| ESSFxc1 | 101 | 1065883 | Pl Se Bl[201 208] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc1 | 102 | 1065879 | Pl Pa[13] | Bl[13 28 208] Se[10 13 28] Fd[9 14 32] Lw[9 14 32 203] | 600 | 400 | 400 | 7 | 20 | 1.0 | Pl-1.2, Lw-1.2, Others-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxc1 | 103 | 1065880 | Pl | Bl[13 208] Se[13] Fd[9 14] Pa[13 17] Lw[9 14 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Lw-1.2, Others-0.6 |
| ESSFxc1 | 104 | 1065881 | Pl | Bl[13 208] Se Fd[9 14 32] Lw[9 14 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Lw-1.2, Others-0.6 |
| ESSFxc1 | 105 | 1065882 | Pl Se | Bl[10 208] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFxc1 | 110 | 1065884 | Pl Se Bl[13 201 208] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc1 | 111 | 1065885 | Pl Se[32] Bl[32 201 208] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc1 | 112 | 1065886 | Pl[1] Se[1 32] Bl[1 32 201 208] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFxc1 | 113 | 1065887 | Pl[1] Se[1, 32] | Bl[1 32 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| ESSFxc2 | 101 | 1065890 | Pl Se Bl [201 208] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc2 | 102 | 1065888 | Pl | Bl[13 208] Se[10 13 28] Fd[9 14 32] Lw[9 14 32 203] | 600 | 400 | 400 | 7 | 20 | 1.0 | Pl-1.2, Lw-1.2, Others-0.6 |
| ESSFxc2 | 103 | 1065889 | Pl Se [10 13 28] Bl [201 208] | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Others-0.6 |
| ESSFxc2 | 110 | 1065891 | Se Bl[13 201 208] | Pl [200] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc2 | 111 | 1065892 | Se[32] Bl[201 208] | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| ESSFxc2 | 112 | 1065893 | Pl[1] Se[1 32] Bl[1 201 208] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFxc3** (use classification for ESSFxc) | 01 | 1065896 | Pl Se[32] Bl [201 208] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFxc3** (use classification for ESSFxc) | 02 | 1065894 | Pl Pa [13 201] | Bl[13,28 208] Se[10,13,28] Fd [9,14,32] Lw[9 14 32 203] | 600 | 400 | 400 | 7 | 20 | 1.0 | Pl-1.2, Lw-1.2, Others-0.6 |
| **ESSFxc3** (use classification for ESSFxc) | 03 | | nonforest | nonforest | | | | | | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFxc3** (use classification for ESSFxc) | 04 | | nonforest | nonforest | | | | | | - | |
| **ESSFxc3** (use classification for ESSFxc) | 05 | 1065895 | Pl Pa [13 201] | Bl[13 208] Se[13] Fd[9 14] Lw [9 14 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.2, Lw-1.2, Others-0.6 |
| **ESSFxc3** (use classification for ESSFxc) | 06 | 1065897 | Pl Se Bl [201 208] | Pa [13] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFxc3** (use classification for ESSFxc) | 07 | 1065898 | Se[32] Bl [201 208] | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| **ESSFxc3** (use classification for ESSFxc) | 08 | 1065899 | Se[1 32] Bl[1 201 208] | Pl [200] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.2, Others-0.6 |
| **ESSFxc3** (use classification for ESSFxc) | 09 | | nonforest | nonforest | | | | | | - | |
| **ESSFxc3** (use classification for ESSFxc) | 10 | | nonforest | nonforest | | | | | | - | |
| ESSFxv1 | 01 | 1065905 | Pl Sx Bl[201] | Pa | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv1 | 02* | 1065900 | Pl Pa | Bl | 800 | 500 | 400 | 7 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv1 | 03* | 1065901 | Pl Pa | | 800 | 500 | 400 | 7 | 20 | 2.0 | Pl-0.8, Pa-0.6 |
| ESSFxv1 | 04 | 1065902 | Pl Pa | Bl Sx | 1000 | 600 | 500 | 7 | 20 | 2.0 | Pl-0.8, Others-0.6 |
| ESSFxv1 | 05 | 1065903 | Pl Pa | Bl Sx | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv1 | 06 | 1065904 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv1 | 07 | 1065906 | Pl Sx Bl[201] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv1 | 08 | 1065907 | Pl Sx Bl[201] | | 600 | 400 | 300 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv1 | 09 | 1065908 | Sx Bl | Pl | 800 | 500 | 400 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv2 | 01 | 1065914 | Pl Sx | Bl Pa | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ESSFxv2 | 02* | 1065909 | Pl Pa | Bl | 800 | 500 | 400 | 7 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv2 | 03* | 1065910 | Pl | Pa | 600 | 400 | 300 | 7 | 20 | 2.0 | Pl-0.8, Pa-0.6 |
| ESSFxv2 | 04 | 1065911 | Pl | Bl Pa | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv2 | 05 | 1065912 | Pl Sx | Pa Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv2 | 06 | 1065913 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv2 | 07 | 1065915 | Pl Sx | Bl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1, Others-0.8 |
| ESSFxv2 | 08 | 1065916 | Sx Bl | Pl | 600 | 400 | 300 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv2 | 09 | 1065917 | Sx Bl[201] | Pl | 600 | 400 | 300 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ESSFxv2 | 10 | 1065918 | Sx Bl[201] | Pl | 600 | 400 | 300 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| ICHdk | 01 | 1065922 | Fd Pl Sx | Bl Cw Pw Lw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw, Lw-2, Fd-1.4, Others-1 |
| ICHdk | 02 | 1065919 | Fd Pl | Cw Sx | 1000 | 500 | 400 | 7 | 20 | 1.6 | Pl-1.4, Fd-1, Others -0.8 |
| ICHdk | 03 | 1065920 | Fd Pl | Cw Sx | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2, Fd-1.4, Others-1 |
| ICHdk | 04 | 1065921 | Fd Pl Sx | Cw Bl Pw Lw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw, Lw-2, Fd-1.4, Others-1 |
| ICHdk | 05 | 1065923 | Fd Pl Sx | Bl Cw Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Fd-1.4, Others-1 |
| ICHdk | 06 | 1065924 | Fd Pl Sx | Bl Cw Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Fd-1.4, Others-1 |
| ICHdk | 07 | 1065925 | Fd Pl Sx | Bl Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Fd-1.4, Others-1 |
| ICHdk | 08 | 1065926 | Fd Sx Bl | Cw Pl Pw | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl, Pw-1.4, Fd-1, Others-0.8 |
| ICHdk | 09 | 1065927 | Sx | Bl Pl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-1.4, Others-0.8 |
| **ICHdw3** (use classification for ICHmw3) | 01 | 1065932 | Fd[58] Cw Sx[10] Pw[31] | Lw[203] Bl[208] Pl Hw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 02 | 1065928 | Fd Pl | Py[203] Pw[31] Lw[203] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **ICHdw3** (use classification for ICHmw3) | 03 | 1065929 | Fd Pl [201] | Lw [203] Pw[31] Py [203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| **ICHdw3** (use classification for ICHmw3) | 04 | 1065930 | Fd Pl[201] | Pw[31]Cw[28]Lw[203] Sxw[28] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 05 | 1065931 | Fd[58] Cw | Pw[31]Lw[203]Sxw[28] Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 06 (Cw present) | 1065933 | Cw Hw[201] Sx Pw [31] | Fd Lw[203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 06 (Sx present) | 1065934 | Sx Bl [201 208] | Pw[31]Cw[1 32] Lw [1 32 203] Hw [1 32] Fd [1 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 07 | 1065935 | Cw Sx | Hw [32] Fd[32] Pw[31] Lw[32 203] Bl [208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHdw3** (use classification for ICHmw3) | 08 (mineral soils with horsetail) | 1065936 | Cw[1,32] Hw[1,32] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHdw3** (use classification for ICHmw3) | 08 (organic soils with skunk cabbage) | 1065937 | Cw[1,32] Hw[1,32] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHdw3** (use classification for ICHmw3) | 09 | | non-forested | non-forested | | | | | | - | |
| ICHdw4 | 101 | 1065941 | Cw Fd Lw Pw[31] | Pl[13] Hw Py[9,14] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHdw4 | 102 | 1065938 | Fd Py[203] | Lw Pl[13] | 600 | 400 | 400 | 7 | 20 | 1.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| ICHdw4 | 103 | 1065939 | Fd Lw Py[203] | Pl[13] Pw[31] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| ICHdw4 | 104 | 1065940 | Fd[58] Lw Pw[31] | Pl Py[9,203] Cw[10] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHdw4 | 110 | 1065942 | Cw Pw[1,31] Sx | Fd[1,32] Hw Lw[1,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ICHdw4 | 111 | 1065943 | Sx[1] Cw[1,32] | Hw[1,32] Pw[31] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pw-1.4, Others-0.8 |
| ICHdw4 | 112 | 1065944 | Sx[1] Cw[1,32] | Hw[1,32] Pw[31] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pw-1.4, Others-0.8 |
| ICHmk1 | 101 | 1069820 | Cw Fd[58] Lw Sx | Bl[10,13,28,208] Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Lw-2.0 Fd 1.4 Cw 1.0 Sx 1.0 Bl 1.0 |
| ICHmk1 | 102 | 1069821 | Fd Py[14,203] | Lw Pl[13] | 600 | 400 | 400 | 7 | 20 | 2.0 | Pl 1.4 Fd 1.0 Py 0.8 Lw 1.4 |
| ICHmk1 | 103 | 1069822 | Fd Lw | Pl Py[9,14,203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl 1.4 Lw 1.4 Fd 1.0 Py 0.8 |
| ICHmk1 | 104 | 1069823 | Fd[32,58] Lw[32] Pl Sx | Bl[208] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl 2.0 Lw 2.0 Fd 1.4 Sx 1.0 Bl 1.0 |
| ICHmk1 | 105 | 1069824 | Fd[58] Lw Pl[201] Sx[10,28,201] | Bl[13,204,208] Cw[10,28,32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl 2.0 Lw 2.0 Fd 1.4 Sx 1.0 Bl 1.0 Cw 1.0 |
| ICHmk1 | 110 | 1069825 | Cw Fd[32,58] Lw[32] Sx | Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw 2.0 Fd 1.4 Cw 0.8 Sx 0.8 Bl 0.8 |
| ICHmk1 | 111 | 1069826 | Cw[32] Sx | Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Cw 0.8 Sx 0.8 Bl 0.8 |
| ICHmk1 | 112 | 1069827 | Cw[1,32] Sx[1] | Bl[1,208] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Cw 0.8 Sx 0.8 Bl 0.8 |
| **ICHmk2** | 01 | 1066286 | Sx Cw Fd [32 58] Pl [201] | Bl[208] Lw[32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Lw-2.0, Fd-1.4, Sx-0.8, Others-1.0 |
| **ICHmk2** | 02 | 1066283 | Fd Pl | Lw [203] Sx[10,13] | 600 | 400 | 400 | 4 | 20 | 1.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| **ICHmk2** | 03 | 1066284 | Fd | Pl [200] Sx[13 28] Bl[13 28 208] Lw [203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| **ICHmk2** | 04 | 1066285 | Fd [58] Sx [13 28] Pl | Cw Bl[13 28 208] Lw [203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Lw-2.0, Fd-1.4, Sx-0.8, Others-1.0 |
| **ICHmk2** | 05 (Sx dominant) | 1066287 | Sx Fd [32 58] Cw [14 32] Bl [201 208] | Pl Lw [203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmk2** | 05 (Cw-dominant) | 1066288 | Sx Cw Fd [32 58] Bl [201 208] | Pl Lw [203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmk2** | 06 | 1066289 | Sx[1] Cw[1 32] | Pl[1] Bl [1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| ICHmk3 | 01 | 1065947 | Fd Pl Sx | Bl Cw Lw Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Lw, Pw-2, Fd-1.4, Others-1 |
| ICHmk3 | 02* | 1065945 | Fd Pl | Sx Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Fd-1, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ICHmk3 | 03 | 1065946 | Fd Pl | Cw Sx Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Lw-1.4, Fd-1, Others-0.8 |
| ICHmk3 | 04 | 1065948 | Fd Sx | Bl Cw Pl Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Fd-1.4, Others-1 |
| ICHmk3 | 05 | 1065949 | Sx Pl | Cw Bl Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Others-1 |
| ICHmk3 | 06 | 1065950 | Fd Sx Cw | Bl Pl Pw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl, Pw-2, Fd-1.4, Others-1 |
| ICHmk3 | 07 | 1065951 | Sx Cw | Bl Pl Pw | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl, Pw-1.4, Others-0.8 |
| ICHmm | 01 | 1065954 | Fd Pl Sx[35] Cw | Bl[29] Hw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmm | 02 | 1065952 | Fd Pl | Hw Cw Sx | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Fd-1.4, Others-0.8 |
| ICHmm | 03 | 1065953 | Fd Hw Pl Sx | Bl[29] Cw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmm | 04 | 1065955 | Cw[32] Hw[32] Sx[35] Fd[32] | Bl[29] Pl Pw[31] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Pw-2.0, Fd-1.4, Others-1.0 |
| ICHmm | 05 | 1065956 | Cw[32] Hw[32] Sx[35] Fd[1,32] | Bl[29] Pl[1] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmm | 06 | 1065957 | Cw[1,32] Hw[1,32] Pl[1] Sx[1,32,35] | Bl[1,29] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| ICHmm | 07* | 1065958 | Pl[1] Sb[1] Sx[1,32,35] | | 400 | 200 | 200 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| ICHmm | 08* | 1065959 | Cw[1,32] Hw[1,32] Sx[1,32,35] | Bl[1,29,32] Pl[1] | 400 | 200 | 200 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| ICHmw2 | 101 | 1065963 | Fd[58] Lw Cw Hw[201] Pw[31] | Bl[10,13,208] Sx[10,13] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Fd-1.4, Others-1.0 |
| ICHmw2 | 102 | 1065960 | Fd Pl | Lw Py[9,14,203] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| ICHmw2 | 103 | 1065961 | Fd Lw | Pl[200] Pw[31] Cw[13] Py[9,14,203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmw2 | 104 | 1065962 | Cw[10,201] Fd[58] Lw Pw[31] | Pl Hw Py[9,14,203] Sx[10,13] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmw2 | 110 | 1065964 | Cw Hw[201] Fd[1,14,32,58] Lw[1,14,32] Pw[31]Sx[10,13,201] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Fd-1.4, Others-1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ICHmw2 | 111 | 1065965 | Cw[32] Pw[1,31] Sx | Fd[1,14,32,58] Hw[32] Lw[1,14,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Fd-1.4, Others-1.0 |
| ICHmw2 | 112 | 1065966 | Sx Cw[1,32] | Hw[1,32] Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| ICHmw2 | 113 | 1065967 | Cw[1,32] Sx[1] | Bl[1,208] Hw[1,32] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| ICHmw2 | 114 | 1065968 | Cw[1,32] Sx[1] | Bl[1,208] Hw[1,32] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHmw3** | 01 | 1065974 | Fd[58] Cw Sx [10] Pw [31] | Lw[203] Pl Bl[208] Hw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmw3** | 02 | 1065969 | Fd Pl | Py [203] Pw[31] Lw [203] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| **ICHmw3** | 03 | 1065971 | Fd Pl | Lw[203] Pw[31] Py [203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| **ICHmw3** | 04 | 1065972 | Fd[58] Pl Cw[28] Pw [31] | Lw[203] Sx[28] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmw3** | 05 | 1065973 | Fd[58] Cw[28] Pw [31] | Lw[203] Sx[28] Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmw3** | 06 | 1065975 | Cw Hw[201] Sx[13] | Fd[58] Pw[31] Lw[203] Bl [13 208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmw3** | 07 | 1065976 | Cw Hw[201] Sx | Fd[32] Pw[31] Lw[32] [203] Bl [208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHmw3** | 08 (mineral soils with horsetail) | 1065977 | Cw[1 32] Hw[1 32] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHmw3** | 08 (organic soils with skunk cabbage) | 1065978 | Cw[1 32] Hw[1 32] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| ICHmw5 | 101 | 1065982 | Cw Fd[58] Hw[201] Lw Pw[31] Sx[10,13] | Bg[14,16] Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmw5 | 102 | 1065979 | Fd Pl | Py[9,14,16,203] Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw-1.4, Pl-1.4, Pw-1.4, Fd-1.0, Others-0.8 |
| ICHmw5 | 103 | 1065980 | Fd Lw | Pl[200] Pw[31] Py[9,14,16,203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmw5 | 104 | 1065981 | Fd[58] Lw Pw[31] Cw[201] | Bg[14,16] Hw Pl[200] Py[9,14,16] Sx[10,13] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| ICHmw5 | 110 | 1065983 | Cw Hw Fd$^{1,14,32,58}$ Lw$^{1,14,32}$ Sx | Bl$^{202}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0 |
| ICHmw5 | 111 | 1065984 | Cw$^{32}$ Sx | Bl$^{208}$ Fd$^{1,32}$ Hw$^{32}$ Lw$^{1,32}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Pw-2.0, Fd-1.4, Others-1.0 |
| ICHmw5 | 112 | 1065985 | Bl$^{1,201,208}$ Sx$^{1}$ | Hw$^{1,32}$ Cw$^{1,32}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| ICHmw5 | 113 | 1065986 | Cw$^{1,32}$ Sx$^{1}$ | Bl$^{1,208}$ Hw$^{1,32}$ | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.8 |
| **ICHvk1** | 01 | 1065990 | Cw Hw$^{201}$ | Pw$^{31}$ Sx$^{10\ 13}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Others-1.0 |
| **ICHvk1** | 02 | 1065987 | Cw Hw$^{201}$ Fd | Sx Bl$^{208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Fd-1.4, Others-1.0 |
| **ICHvk1** | 03 | 1065988 | Cw Hw$^{201}$ | Fd$^{58}$ Pw$^{31}$ Sx$^{10\ 13\ 204}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Fd-1.4, Others-1.0 |
| **ICHvk1** | 04 | 1065989 | Cw Hw$^{201}$ | Pw$^{31}$ Sx | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Others-1.0 |
| **ICHvk1** | 05 | 1065991 | Bl$^{201\ 208}$ Cw$^{32}$ Sx | Hw$^{32}$ | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.8 |
| **ICHvk1** | 06 | 1065992 | Cw$^{1\ 32}$ Hw$^{1\ 32}$ Sx$^{1}$ | Bl$^{1\ 208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHwk1** | 01 | 1066001 | Cw Hw$^{201}$ Pw$^{31}$ | Sx$^{10\ 13}$ Fd$^{9\ 14\ 32}$ Lw$^{9\ 14\ 32}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHwk1** | 02 | 1065993 | Fd$^{58}$ Pl$^{201}$ Cw$^{28}$ | Pw$^{31}$Lw$^{203}$ Sxw$^{28}$ Hw $^{28}$ | 1000 | 500 | 400 | 7 | 20 | 1.0 | Fd-1.0, Others-0.8 |
| **ICHwk1** | 03 | 1065999 | Cw$^{28}$ Hw$^{28\ 201}$ Fd$^{58}$ Pw$^{31}$ | Lw$^{203}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHwk1** | 04 | 1066000 | Cw Fd$^{58}$ Pw$^{31}$ | Hw Lw $^{203}$ Sx $^{10\ 13\ 204}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pw-2.0, Lw-2.0, Fd-1.4, Others-1.0 |
| **ICHwk1** | 05 | 1066002 | Cw$^{32}$ Sx$^{201}$ Hw$^{201}$ | Bl$^{208}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-1.0 |
| **ICHwk1** | 05 (cold air with Bl) | 1066003 | Bl$^{201\ 208}$ Cw$^{32}$ Sx | Hw$^{32}$ | 1000 | 500 | 400 | 4 | 20 | 2.0 | All-0.8 |
| **ICHwk1** | 06 | 1066004 | Cw$^{1\ 32}$ Sx$^{1}$ | Bl$^{208}$ Hw$^{1\ 32}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| **ICHwk1** | 07 | 1066005 | Cw$^{1\ 32}$ Hw$^{1\ 32}$ Sx$^{1}$ | Bl$^{1\ 208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.8 |
| ICHxm1 | 101 | 1069828 | Fd$^{58}$ Lw Pw$^{31}$ | Cw$^{28,204}$ Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl 2.0 Lw 2.0 Pw 2.0 Fd 1.4 Cw 1.0 |

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| ICHxm1 | 102 | 1069829 | Fd[27] Py | | 600 | 400 | 400 | 7 | 20 | 2.0 | Fd 1.0 Py 0.8 |
| ICHxm1 | 103 | 1069830 | Fd[27] Py | | 600 | 400 | 400 | 7 | 20 | 2.0 | Fd 1.0 Py 0.8 |
| ICHxm1 | 104 | 1069831 | Fd[58] Lw Pw[31] Py[9,14,201,203] | Pl [200] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw 2.0 Pl 2.0 Pw 2.0 Fd 1.4 Py 1.0 |
| ICHxm1 | 110 | 1069832 | Cw Fd[58] Lw Pw[31] | Sx | 1200 | 700 | 600 | 7 | 20 | 2.0 | Lw 2.0 Fd 1.4 Cw 1.0 Pw 2.0 Sx 1.0 |
| ICHxm1 | 111 | 1069833 | Cw[1,32] Pw[1,31] Sx[1,201] | Bl[208] Fd[1] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Fd 1.4 Cw 1.0 Pw 2.0 Sx 1.0 Bl 1.0 |
| ICHxm1 | 112 | 1069834 | Cw[1,32] Sx[1] | | 1000 | 500 | 400 | 4 | 20 | 2.0 | Cw 1.0 Sx 1.0 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 01 | 1066010 | Fd | Pl [200] Py[14 203] Sx[10,13] Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Sx-0.6, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 02 | 1066006 | Fd[27] Py | | 600 | 400 | 400 | 4 | 20 | 1.0 | Fd-0.8, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (very steep slopes with bluebunch wheatgrass) | 1066007 | Py[14,27] Fd[27] | Pl[13 28] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (shallow soils) | 1066008 | Fd[27] Py [14] | Pl[200] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (very steep slopes with pinegrass) | 1066009 | Fd[27] Py [14] | Pl[200] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 04 | 1066010 | Fd | Pl [200] Py[14 203] Sx[10,13] Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Sx-0.6, Py-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 05 | 1066011 | Fd[32] Sx | Pl [12 200] Cw[32] Bl[208] Lw | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **IDFdc** (use classification for IDFdk2 in LMH23) | 06 | 1066012 | Pl[1 12] Sx[1] Fd[1 32] | Bl[1 12 13 208] Cw[32] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Fd-0.8, Others-0.6 |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 07 | | non-forested | non-forested | | | | | | - | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 08 | | non-forested | non-forested | | | | | | - | |
| IDFdk1 | 101 | 1066017 | Fd Pl[201] | Py[9 14] Sx[10 13] Lw[203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6, Sx-0.6 |
| IDFdk1 | 102 | 1066013 | Fd[27] Pl | Py[9 14] | 600 | 400 | 400 | 4 | 20 | 1.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| IDFdk1 | 103 | 1066014 | Fd[27] Py[14] | Pl[13] | 600 | 400 | 400 | 7 | 20 | 2.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| IDFdk1 | 104 | 1066015 | Fd Pl[201] | Py[9 14] Sx[10 13] Lw[203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Others-0.6 |
| IDFdk1 | 105 | 1066016 | Pl Fd[27,32] | Bl[10 208] Sx[10] Lw[27 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Bl-0.6, Sx-0.6 |
| IDFdk1 | 110 | 1066018 | Fd[32] Sx | Bl[10 13 208] Pl Lw[32 203] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Others-0.6 |
| IDFdk1 | 111 | 1066019 | Pl[1,12] Sx[1] | Bl[1 12 13 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Fd-0.8, Others-0.6 |
| IDFdk2 | 101 | 1066024 | Fd Pl[201] | Py[9 14] Sx[10, 13, 204] Lw[203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6, Sx-0.6 |
| IDFdk2 | 102 | 1066020 | Fd[27] Py[9 14] Pl | | 600 | 400 | 400 | 4 | 20 | 1.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| IDFdk2 | 103 | 1066021 | Py[14] Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | Pl-1.0, Fd-0.8, Py-0.6 |
| IDFdk2 | 104 | 1066022 | Fd[27] Py[14] Pl[201] | Lw[27 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6 |
| IDFdk2 | 105 | 1066023 | Pl Fd[27,32] | Bl[10, 204, 208] Sx[10, 204] Lw[203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Fd-0.8, Sx-0.6, Bl-0.6 |
| IDFdk2 | 110 | 1066025 | Fd[32] Sx Pl[201] | Cw[32] Bl[208] Lw[32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Fd-1.0, Others-0.8 |
| IDFdk2 | 111 | 1066026 | Pl[1 12] Sx[1] Fd[1 32] | Bl[1 12 13 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Fd-0.8, Others-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk3 | 01 | 1066032 | Fd Pl | Sx Py Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.4, Fd-1, Sx, Py-0.8 |
| IDFdk3 | 02* | 1066027 | Fd Pl | Py | 800 | 500 | 400 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| IDFdk3 | 03* | 1066028 | Fd Pl | Py | 800 | 500 | 400 | 7 | 20 | 2.0 | Pl-1, Fd-0.8, Py-0.8 |
| IDFdk3 | 04 | 1066029 | Fd Pl | Py | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Py-1, Fd-0.8 |
| IDFdk3 | 05 | 1066030 | Fd Pl | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Fd-1, Py-0.8 |
| IDFdk3 | 06 | 1066031 | Fd Pl | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Fd-1, Py -0.8 |
| IDFdk3 | 07 | 1066033 | Fd Pl Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Fd-1, Sx-0.8 |
| IDFdk3 | 08 | 1066034 | Fd Pl Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Fd-1, Sx-0.8 |
| IDFdk3 | 09 | 1066035 | Sx | Pl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-1, Sx-0.6 |
| IDFdm1 | 101 | 1069866 | Fd Lw | Pl[200] Py[9,14] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw 1.0 Pl 1.0 Fd 0.8 Py 0.6 |
| IDFdm1 | 102 | 1069868 | Fd[27] Py | Lw | 600 | 400 | 400 | 7 | 20 | 2.0 | Lw 1.0 Fd 0.8 Py 0.6 |
| IDFdm1 | 103 | 1069869 | Fd[27] Py | | 600 | 400 | 400 | 7 | 20 | 2.0 | Fd 0.8 Py 0.6 |
| IDFdm1 | 104 | 1069870 | Fd Lw Py[203] | Pl[10,13,28,204] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Lw 1.0 Py 0.6 Fd 0.8 Pl 1.0 |
| IDFdm1 | 110.1 | 1069871 | Fd[32] Lw[32] Sx | Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd 1.0 Lw 1.4 Sx 0.8 Pl 1.4 |
| IDFdm1 | 110.2 | 1069872 | Cw[32] Fd[32] Lw[32] Sx[10,13,201] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Cw 0.8 Fd 1.0 Lw 1.4 Sx 0.8 Pl 1.4 |
| IDFdm1 | 111 | 1069873 | Fd[32] Lw[32] Sx | Pl | 1000 | 500 | 400 | 4 | 20 | 2.0 | Fd 1.0 Lw 1.0 Sx 0.8 Pl 1.0 |
| IDFdm1 | 112 | 1069874 | Sx[1] | Cw[1,32] Pl[1] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Sx 0.6 Cw 0.6 Pl 1.0 |
| **IDFmw2** | 01 | 1066044 | Fd[58] Cw[28] Pw[31] | Pl [200] Lw[203] Sx[10 28] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFmw2** | 02 | 1066042 | Fd Pl | Py [203] Pw[31] | 600 | 400 | 400 | 4 | 20 | 1.0 | Pl-1.2, Pw-1.2, Fd-0.8, Py-0.6 |
| **IDFmw2** | 03 | 1066043 | Fd | Lw[203] Pw[31] Py [203] Pl [200] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFmw2** | 04 (lack abundant devil's club) | 1066045 | Fd[58] Cw Sx[10 13] | Pw[31] Lw[203]Bl [208] Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **IDFmw2** | 04 (abundant devil's club present) | 1066046 | Cw Fd[58] Sx | Hw Pw[31] Lw[32 203] Bl[208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFmw2** | 05 | 1069890 | Cw[1 32] Hw[1 32] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.6 |
| **IDFww** | 01 | 1066051 | Fd Py | Pw[28 31] Lw[203] Pl[200] Sx[28] Cw[28] | 600 | 400 | 400 | 4 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFww** | 02 | 1066048 | Fd Py | | 1200 | 700 | 600 | 7 | 20 | 1.0 | Fd-1.0, Py-0.8 |
| **IDFww** | 03 | 1066049 | Fd Py[9 14] | Pl Sx[10 28] Cw[10 28] Lw[203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFww** | 04 | 1066050 | Fd Py[9 14] | Pw[28 31] Lw[203] Pl[200] Sx[28] Cw[28] | 600 | 400 | 400 | 4 | 20 | 2.0 | Pl-1.6, Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFww** | 05 | 1066052 | Cw Fd | Pw[31] Lw[203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFww** | 06 | 1066053 | Sx Fd | Lw[1 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Lw-1.6, Fd-1.0, Others-0.8 |
| **IDFww** | 07 (abundant devil's club present) | 1066054 | Cw Sx[13] | Fd[1 32] Lw[1 32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.6 |
| **IDFww** | 07 (abundant horsetail present) | 1066055 | Cw[1] Sx[1 13] | Bl[1 13 208] | 400 | 200 | 200 | 4 | 20 | 1.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 01 | 1066060 | Fd[27] Py | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 02 | 1066056 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 03 | 1066057 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 04 | 1066058 | Py Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **IDFxc** (use classification for IDFxh2 in LMH23) | 05 | 1066059 | Fd[27] Py | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 06 | 1066061 | Fd | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 07 | 1066062 | Cw[14] Fd Sx[13] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.6 |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 08 | 1066063 | Sx[1] Fd[1] Cw[1 32] | | 1000 | 500 | 400 | 4 | 20 | 1.0 | All-0.6 |
| IDFxh1 | 101 | 1066069 | Fd[27] Py | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh1 | 102 | 1066064 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| IDFxh1 | 103 | 1066065 | Py Fd | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| IDFxh1 | 104 | 1066066 | Py Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh1 | 105 | 1066067 | Py Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh1 | 106 | 1066068 | Py Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh1 | 110 | 1066070 | Fd[27] | Py[9] | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh1 | 111.1 | 1066071 | Fd[32] Sx[13] | Pl[12] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.0, Others-0.8 |
| IDFxh1 | 111.2 | 1066072 | Fd Cw[14 32] | Pl[12] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.0, Others-0.8 |
| IDFxh1 | 112 | 1066073 | Sx[1] Fd[1,32] | Pl[1 12 50] Cw[1 32 50] | 1200 | 700 | 600 | 4 | 20 | 1.0 | Pl-1.0, Others-0.8 |
| IDFxh2 | 101 | 1066077 | Fd[27] Py | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh2 | 102 | 1066074 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| IDFxh2 | 103 | 1066075 | Py Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2 | 104 | 1066076 | Py Fd[27] | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh2 | 110 | 1066078 | Fd | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh2 | 111 | 1066079 | Fd | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.6 |
| IDFxh2 | 112 | 1066080 | Fd Sx[13] | Py Cw[14 32] Pl[12] | 1200 | 700 | 600 | 4 | 20 | 2.0 | All-0.6 |
| IDFxh2 | 113 | 1066081 | Sx[1] Fd[1 32] | Pl[1 12 50] Cw[1 32 50] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-0.8, Others-0.6 |
| IDFxm | 01a | 1066086 | Fd | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.8 |
| IDFxm | 01b | 1066087 | Fd Pl | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | All-0.8 |
| IDFxm | 02* | 1066082 | Fd | Py | 1000 | 500 | 400 | 7 | 20 | 2.0 | Fd-0.6, Py-0.8 |
| IDFxm | 03 | 1066083 | Fd Pl | Py | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Py-0.8, Fd-0.6 |
| IDFxm | 04 | 1066084 | Fd | Py | 1000 | 500 | 400 | 7 | 20 | 2.0 | Fd-0.6, Py-0.8 |
| IDFxm | 05 | 1066085 | Fd | Py | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd, Py-0.8 |
| IDFxm | 06 | 1066088 | Fd | Pl Py Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd-0.8, Pl, Py, Lw-1 |
| IDFxm | 07 | 1066089 | Fd | Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd-0.8, Pl -1 |
| IDFxm | 08 | 1066090 | Fd Sx | Pl | 1200 | 700 | 600 | 4 | 20 | 1.6 | Pl, Fd, Sx-0.8 |
| IDFxm | 09 | 1066091 | Pl Sx | | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-0.8, Sx-0.6 |
| IDFxw | 01 | 1066096 | Fd Py | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd, Py-0.8 |
| IDFxw | 02* | 1066092 | Fd Py | | 600 | 400 | 300 | 7 | 20 | 2.0 | Fd, Py-0.6 |
| IDFxw | 03* | 1066093 | Fd Py | | 600 | 400 | 300 | 7 | 20 | 2.0 | Fd, Py-0.6 |
| IDFxw | 04 | 1066094 | Fd Py | | 800 | 500 | 400 | 7 | 20 | 2.0 | Fd, Py-0.6 |
| IDFxw | 05 | 1066095 | Fd | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd-0.8 |
| IDFxw | 06 | 1066097 | Fd Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Fd, Sx-0.6 |
| IDFxw | 07 | 1066098 | Fd Sx | | 1000 | 500 | 400 | 4 | 20 | 1.6 | Fd, Sx-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| MHmm2[47] | 01 | 1069892 | Ba[47] Hm Yc[17] Se | | 900 | 500 | 400 | 7 | 20 | 2.0 | Hm-1.0, Yc-1.0, Se-1.0, Ba-0.6 |
| MHmm2[47] | 01 | 1069893 | Yc[13,17] | Bl[13,45,47,53] Hm[13] Se[13] Fd[14,23] Hw[14,44] Cw[14] | 900 | 500 | 400 | 7 | 20 | 2.0 | Bp-1.25, Hm-1.0, Hw-1.0, Bl-1.0, Yc-1.0, Se-1.0, Fd-1.25, Ba-0.6, Cw-1.0 |
| MHmm2[47] | 02 | 1069891 | Bl[45,47,53] Hm Se Yc[17] | Ba[47] | 440 | 400 | 400 | 4 | 20 | 1.0 | Bl-0.75, Hm-0.75, Hw-0.75, Yc-0.75, Se-0.75, Ba-0.6 |
| MHmm2[47] | 03 | 1069894 | Ba[47] Hm Se Yc[17] | | 900 | 500 | 400 | 4 | 20 | 2.0 | Bp-1.25, Bl-1.0, Hm-1.0, Hw-1.0, Yc-1.0, Se-1.0, Ba-0.6 |
| MHmm2[47] | 04 | 1069895 | Ba[47] Hm Yc[17] | | 900 | 500 | 400 | 7 | 20 | 2.0 | Bl-1.0, Hm-1.0, Hw-1.0, Yc-1.0, Ba-0.6 |
| MHmm2[47] | 05 | 1069896 | Ba[47] Se Yc[17] | Hm | 900 | 500 | 400 | 4 | 20 | 2.0 | Bp-1.25, Bl-1.0, Hm-1.0, Hw-1.0, Yc-1.0, Se-1.0, Ba-0.6 |
| MHmm2[47] | 06 | 1069897 | Hm[1] Yc[17] | Ba[1] | 800 | 400 | 400 | 7 | 20 | 2.0 | Hm-0.75, Yc-0.75, Ba-0.6 |
| MHmm2[47] | 07 | 1069898 | Ba[1,47] Se[1] Yc[17] | Hm[1] | 900 | 500 | 400 | 4 | 20 | 2.0 | Hm-0.75, Hw-0.75, Yc-0.75, Se-0.75, Ba-0.6 |
| MHmm2[47] | 08* | 1069899 | Hm[1] Yc[1,17] | | 400 | 200 | 200 | 4 | 20 | 1.0 | Hm-0.75, Yc-0.75 |
| MHmm2[47] | 09 | 1069900 | Hm[1] Yc[1,17] | Se[1] | 800 | 400 | 400 | 4 | 20 | 1.0 | Hm-0.75, Yc-0.75, Se-0.75 |
| **MSdc1** (use classification for MSdc) | 01 | 1066168 | Pl[201] Sx Bl[201 208] Fd[14 32] | Lw[14 32 203] Pw[31] Pa[31] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdc1** (use classification for MSdc) | 01 (cold air drainage) | 1066169 | Sx Bl[201 208] Fd[14] | Pl | 1200 | 700 | 600 | 7 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| **MSdc1** (use classification for MSdc) | 02 (high elevations) | 1066165 | Pl Fd[14] Pa[13 31] | Py[9 14 203] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSdc1** (use classification for MSdc) | 02 (low elevations) | 1066166 | Pl Fd | Lw[203] Py[9 14 203] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Lw-1.1, Others-0.6 |
| **MSdc1** (use classification for MSdc) | 03 | 1066167 | Pl Fd[9 32] | Sx[28] Bl[28 208] Pw[31] Lw[9 32] Pa[31] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.1, Others-0.6 |
| **MSdc1** (use classification for MSdc) | 04 | 1066170 | Sx Bl[201 208] | Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **MSdc1** (use classification for MSdc) | 05 | | non-forested | non-forested | | | | | | - | |
| **MSdc3**(use classification for MSdc) | 01 | 1066173 | Pl[201] Sx Bl[201 208] Fd [14 32] | Lw [14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdc3** (use classification for MSdc) | 01 (cold air drainage) | 1066174 | Sx Bl[201 208] Pl [201] | Fd[14 32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| **MSdc3** (use classification for MSdc) | 02 | 1066171 | Pl[201] Fd[14] Pa[13 31] | Py [14 32] | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSdc3** (use classification for MSdc) | 03 | 1066172 | Pl Fd [9 32] | Sx [28] Bl [28 208]Pa [13 31] Py [9 14] Lw [9 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| **MSdc3** (use classification for MSdc) | 04 | 1066175 | Sx Bl[201 208] Pl [201] | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| **MSdc3** (use classification for MSdc) | 05 | | non-forested | non-forested | | | | | | - | |
| MSdm1 | 101 | 1069875 | Fd[14,32,203] Lw[14,32,203] Sx | Bl[204,208] Pl[200] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Fd 1.0 Lw 1.4 Sx 0.8 Bl 0.8 Pl 1.4 |
| MSdm1 | 102 | 1069876 | Fd Lw Py[9,14,203] | Pl | 600 | 400 | 400 | 7 | 20 | 2.0 | Fd 1.0 Lw 1.0 Py 0.8 Pl 1.0 |
| MSdm1 | 103 | 1069877 | Fd Lw Py[9,14,203] | Pl[200] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Fd 0.8 Lw 1.4 Py 0.8 Pl 1.4 |
| MSdm1 | 104 | 1069878 | Pl Fd[32] Lw[32] | Bl[208] Sx[28] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl 1.4 Fd 0.8 Lw 1.4 Bl 0.8 Sx 0.8 |
| MSdm1 | 110 | 1069879 | Pl[201] Sx Bl[201,208] | Fd[14,32] Lw[14,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl 1.4 Sx 1.0 Bl 1.0 Fd 1.0 Lw 1.4 |
| MSdm1 | 111.1 | 1069880 | Bl[201,208] Pl[201] Sx | Fd[14,32] Lw[14,32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl 1.4 Sx 1.0 Bl 1.0 Fd 1.0 Lw 1.4 |
| MSdm1 | 111.2 | 1069881 | Cw[32] Lw[32] Sx | Bl[208] Fd[14,32] Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Cw 1.0 Lw 1.4 Sx 1.0 Bl 1.0 Fd 1.0 Pl 1.4 |
| MSdm1 | 112 | 1069882 | Bl[201,208] Sx | Fd[14,32] Lw[14,32] Pl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Bl 1.0 Sx 1.0 Fd 1.0 Lw 1.4 Pl 1.4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| MSdm1 | 113 | 1069883 | Bl[1,201,208] Sx[1] | Pl[1] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Bl 0.8 Sx 0.8 Pl 1.0 |
| MSdm2 | 101 | 1066198 | Bl [201 208] Fd [9 14 32] Pl Sx | Lw [9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 102 | 1066176 | Pl Fd[14] | Py[14 203] Bl[13 204 208] | 600 | 400 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSdm2 | 103 | 1066195 | Fd[32] Pl | Lw [32 203] Py[9 203] Bl[10 13 204 208] Sx[10,13 204] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| MSdm2 | 104 | 1066196 | Fd[9 14 32] Pl Sx[10 13 28] | Bl [10 13 28 208] Lw[14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 105 | 1066197 | Pl Sx Bl [201 208] | Fd[9,14,32] Lw [9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 110 | 1066199 | Pl Sx Bl [201 208] | Lw [9 14 32 203] Fd [9 14 32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 111 | 1066200 | Pl Sx Bl [201 208] | Fd [14 32] Lw[14 32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 112 | 1066201 | Sx Bl[201 208] | Pl Fd [9 14 32] Lw[9 14 32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSdm2 | 113 | 1066202 | Pl[1] Sx[1] | Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 01 | 1066206 | Pl Sx Fd[14 32] Bl [201 208] | Lw[14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 02 | | non-forested | non-forested | | | | | | - | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 03 (shallow soils) | 1066203 | Pl Fd[14] | Py [14 203] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 03 (deep soils) | 1066204 | Fd[14] Pl | Bl[10 13 204 208] Sx[10 13 204] Lw [32 203] Py [14 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **MSdm3** (use classification for MSdm2 in LMH23) | 04 | 1066205 | Fd$^{14\ 32}$ Pl Sx$^{13}$ | Bl$^{13\ 208}$ Lw$^{14\ 32\ 203}$ | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 05 | 1066207 | Pl Sx Bl $^{201\ 208}$ | Fd $^{14\ 32}$ Lw$^{14\ 32\ 203}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 06 | 1066208 | Sx Bl$^{201\ 208}$ | Pl $^{200}$ Fd$^{14\ 32}$ Lw$^{14\ 32\ 203}$ Cw $^{32}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSdm3** (use classification for MSdm2 in LMH23) | 07 | 1066209 | Sx1 Bl $^{1\ 201\ 208}$ | Pl$^{1\ 200}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSxk1 | 101 | 1066215 | Pl Fd$^{9\ 14\ 32}$ Sx $^{10\ 13}$ | Bl$^{10,13\ 208}$ Lw$^{9\ 14\ 32\ 203}$ | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSxk1 | 102 | 1066210 | Pl Fd$^{9\ 14\ 32}$ | Py$^{14\ 203}$ Lw $^{9\ 14\ 32\ 203}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| MSxk1 | 103 | 1066211 | Pl Fd$^{9\ 14\ 32}$ | | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.0, Others-0.6 |
| MSxk1 | 104 | 1066213 | Pl | Sx$^{13}$ Fd$^{14\ 32}$ Bl $^{13\ 208}$ Lw$^{14\ 32\ 203}$ | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSxk1 | 105 | 1066214 | Pl Sx$^{10\ 13}$ | Bl$^{1013\ 208}$ Fd$^{9\ 14\ 32}$ Lw$^{9\ 14\ 32\ 203}$ | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSxk1 | 110 | 1066216 | Pl Sx | Bl$^{10\ 13\ 208}$ Lw$^{9\ 14\ 32\ 203}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| MSxk1 | 111 | 1066217 | Pl, Sx | Bl $^{208}$ | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| MSxk1 | 112 | 1066218 | Pl$^{1}$ Sx$^{1}$ | Bl $^{1,208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSxk1 | 113 | 1066219 | Pl$^{1}$ Sx$^{1}$ | Bl $^{1,208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSxk2 | 101 | 1066272 | Pl Fd$^{9\ 14\ 32}$ Sx$^{10\ 13}$ | Bl$^{10\ 13\ 208}$ Lw $^{9\ 14\ 32\ 203}$ | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSxk2 | 102 | 1066220 | Pl Fd$^{9\ 14\ 32}$ | Bl$^{13\ 28\ 204\ 208}$ | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSxk2 | 103 | 1066245 | Pl Fd$^{9\ 14\ 32}$ | Sx$^{10\ 13\ 28}$ | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.0, Others-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| MSxk2 | 104 | 1066246 | Pl[201] Fd[32] | Py[14 203] Lw[9 14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| MSxk2 | 105 | 1066247 | Pl | Sx[10 13] Fd[9 14 32] Lw[9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| MSxk2 | 106 | 1066271 | Pl Sx [10 13] | Bl[10 13 208] Fd[9 14 32] Lw[9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| MSxk2 | 110 | 1066273 | Pl Sx | Bl[10 13 208] Lw[9 14 32 203] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| MSxk2 | 111 | 1066274 | Pl Sx | Bl [208] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| MSxk2 | 112 | 1066275 | Sx[1] | Bl[1 208] Pl [1 200] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSxk3** (use classification for MSxk) | 01 | 1066279 | Pl Fd[9 14 32] Sx[10 13 28 204] | Bl[10 13 204 208] Lw[9 14 32 203] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Lw-1.4, Others-0.8 |
| **MSxk3** (use classification for MSxk) | 02 | 1066276 | Pl Fd[9 14] | Bl[10 13 204 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| **MSxk3** (use classification for MSxk) | 03 | | non-forested | | | | | | | 2.0 | |
| **MSxk3** (use classification for MSxk) | 04 | | non-forested | | | | | | | 2.0 | |
| **MSxk3** (use classification for MSxk) | 05 (steep warm slopes) | 1066277 | Pl Fd[9 14 32] | Bl[10 13 28 204 208] Sx[10 13 28 204] Py[9 14 32 203] Lw[9 14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| **MSxk3** (use classification for MSxk) | 05 (moderate and gentle slopes) | 1066278 | Pl Fd[9 14 32] | Bl[10 13 28 204 208] Sx[10 13 28 204] Py[9 14 32 203] Lw[9 14 32 203] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.0, Lw-1.0, Others-0.6 |
| **MSxk3** (use classification for MSxk) | 06 | 1066280 | Pl Sx Bl [201 208] | Fd[14 32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.4, Others-0.8 |
| **MSxk3** (use classification for MSxk) | 07 | | not present in MSxk3 | not present in MSxk3 | | | | | | - | |
| **MSxk3** (use classification for MSxk) | 08 | 1066281 | Sx Bl [201 208] | Pl[200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.4, Others-0.8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| **MSxk3** (use classification for MSxk) | 09 | 1066282 | Sx[1] | Bl[1 208] Pl[1 200] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.0, Others-0.6 |
| MSxv | 01 | 1066102 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| MSxv | 02 | 1066099 | Pl | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-0.8 |
| MSxv | 03 | 1066100 | Pl | | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-0.8 |
| MSxv | 04 | 1066101 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| MSxv | 05 | 1066103 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| MSxv | 06 | 1066104 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1, Others-0.8 |
| MSxv | 07 | 1066105 | Pl Sx | Bl | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-0.8, Others-0.6 |
| MSxv | 08 | 1066106 | Sx | Pl Bl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| MSxv | 09 | 1066107 | Sx | Pl Bl | 400 | 200 | 200 | 4 | 20 | 1.6 | Pl-0.8, Others-0.6 |
| PPxh1 | 101 | 1066111 | Py Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| PPxh1 | 102 | 1066108 | Py[27] | Fd[27] | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| PPxh1 | 103 | 1066109 | Py[27] | Fd[27] | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| PPxh1 | 104 | 1066110 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| PPxh1 | 110 | 1066112 | Fd Py | | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| PPxh1 | 111 | 1066113 | Fd Py | | 1000 | 500 | 400 | 7 | 20 | 2.0 | All-0.6 |
| PPxh2 | 101 | 1066117 | Py Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| PPxh2 | 102 | 1066114 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 1.0 | All-0.6 |
| PPxh2 | 103 | 1066115 | Py[27] Fd[27] | | 400 | 200 | 200 | 7 | 20 | 2.0 | All-0.6 |
| PPxh2 | 110.1 | 1066118 | Fd | Py | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |
| PPxh2 | 110.2 | 1066308 | Fd | Py | 600 | 400 | 400 | 7 | 20 | 2.0 | All-0.6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| PPxh2 | 111 | 1066119 | Fd | Py | 600 | 400 | 400 | 4 | 20 | 2.0 | All-0.6 |
| SBPSmk | 01 | 1066125 | Fd Pl Sx | Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.6, Fd-1, Sx-0.8 |
| SBPSmk | 02* | 1066121 | Fd Pl | Sx Py | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Py-1.2, Fd-0.8, Sx-0.6 |
| SBPSmk | 03 | 1066122 | Fd Pl | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Fd-1 |
| SBPSmk | 04 | 1066123 | Fd Pl Sx | Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.6, Fd-1, Others-0.8 |
| SBPSmk | 05 | 1066124 | Fd Pl Sx | Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.6, Fd-1, Sx-0.8 |
| SBPSmk | 06 | 1066126 | Pl Sx | | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Sx-0.8 |
| SBPSmk | 07 | 1066127 | Sx | Pl Bl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-1.2, Others-0.6 |
| SBPSmk | 08 | 1066128 | Sx Pl | Sb | 400 | 200 | 150 | 4 | 20 | 1.6 | Pl-1.2, Others-0.6 |
| SBSdh | 01 | 1066134 | Fd Pl Sx | Bl[29] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| SBSdh | 02* | 1066129 | Pl | Sx | 1000 | 500 | 400 | 7 | 20 | 1.0 | Pl-1.4, Sx-0.8 |
| SBSdh | 03* | 1066131 | Fd Lw[23] Pl | Pw[16,31] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0 |
| SBSdh | 04 | 1066132 | Fd Pl Sx[28] | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Fd-1.4, Sx-1.0 |
| SBSdh | 05 | 1066133 | Pl | Sb Sx[32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| SBSdh | 06 | 1066135 | Fd Sx | Bl[29] Pl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| SBSdh | 07 | 1066136 | Fd[1,32] Pl[1] Sx[1,32] | Bl[1,29,32] | 1000 | 500 | 400 | 4 | 20 | 2.0 | Pl-1.4, Fd-1.0, Others-0.8 |
| SBSdh | 08* | 1066137 | Pl[1] Sb[1] Sx[1,32] | | 400 | 200 | 200 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| SBSdw1 | 01 | 1066142 | Fd Pl Sx | Bl Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-2, Fd-1.4, Others-1 |
| SBSdw1 | 02* | 1066138 | Fd Pl | Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Lw-1.4, Fd-1 |
| SBSdw1 | 03 | 1066139 | Fd Pl | Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2, Fd, Lw-1.4 |
| SBSdw1 | 04 | 1066140 | Fd Pl Sx | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2, Fd-1.4, Sx-1 |
| SBSdw1 | 05 | 1066141 | Fd Pl Sx | Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2, Fd, Lw-1.4, Sx-1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| SBSdw1 | 06 | 1066143 | Fd Pl Sx | | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2, Fd-1.4, Others-1 |
| SBSdw1 | 07 | 1066144 | Fd Pl Sx | Bl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2, Fd-1.4, Others-1 |
| SBSdw1 | 08 | 1066145 | Fd Pl Sx | Bl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2, Fd-1.4, Others-1 |
| SBSdw1 | 09 | 1066146 | Sx | Bl Pl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-1.4, Others-0.8 |
| SBSmc1 | 01 | 1066149 | Fd Pl Sx | Bl Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.6, Fd-1, Others-0.8 |
| SBSmc1 | 02* | 1066147 | Pl | Bl Sx Lw | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl, Lw-1.4, Others-0.6 |
| SBSmc1 | 03 | 1066148 | Fd Pl | Sx Lw | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl, Lw-1.4, Fd-1, Sx-0.8 |
| SBSmc1 | 04 | 1066150 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| SBSmc1 | 05 | 1066151 | Pl Sx | Bl | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-1.6, Others-0.8 |
| SBSmc1 | 06 | 1066152 | Fd Pl Sx | Bl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Fd-1, Others-0.8 |
| SBSmc1 | 07 | 1066153 | Fd Pl Sx | Bl | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-1.6, Fd-1, Others-0.8 |
| SBSmc1 | 08 | 1066154 | Sx | Bl Pl | 1000 | 500 | 400 | 4 | 20 | 1.6 | Pl-1.2, Others-0.6 |
| SBSmm | 01 | 1066160 | Pl[201] Sx Bl [201 208] | Fd [9 14 32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| SBSmm | 02 | 1066155 | Pl | Sx Fd[32] Bl [28 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Fd-1.0, Others-0.8 |
| SBSmm | 03 | 1066156 | Pl Sx | Bl [208] Fd [9 14 32] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Fd-1.0, Others-0.8 |
| SBSmm | 04 | 1066157 | Pl Sx | Bl [208] Fd [9 14 32] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Fd-1.0, Others-0.8 |
| SBSmm | 05 | 1066158 | Pl Sx | Bl [208] Fd [9 14 32] | 1000 | 500 | 400 | 7 | 20 | 2.0 | Pl-1.4, Fd-1.0, Others-0.8 |
| SBSmm | 06 | 1066159 | Pl[201] Sx Bl [201 208] | Fd [9 14 32] | 1200 | 700 | 600 | 7 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| SBSmm | 07 | 1066161 | Sx Bl [201 208] | Pl [200] Cw[32] Fd[32] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Fd-1.4, Others-1.0 |
| SBSmm | 07 (cold air drainage) | 1066162 | Sx Bl [201 208] | Pl [200] | 1200 | 700 | 600 | 4 | 20 | 2.0 | Pl-2.0, Others-1.0 |
| SBSmm | 08 | 1066163 | Bl[1 208] Sx[1 32] | Pl[1] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |
| SBSmm | 09 | 1066164 | Pl [1] | Sx[1 32] Bl[1 208] | 1000 | 500 | 400 | 4 | 20 | 1.0 | Pl-1.4, Others-0.8 |

# Appendix 2: Thompson Okanagan Regional Stocking Standards - Uneven Aged (Dec. 9th 2021)

| *BGC Classification* | | *Regeneration and Free Growing Stocking Standard* | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zone/SZ | Site Series | Stocking Standards ID | Preferred (p) Species | Acceptable (a) Species | Layer** | Target (well-spaced/ha) | MIN pa (well-spaced/ha) | MIN p (well-spaced/ha) | MITD | Minimum Height at Free Growing Species Height (m) |
| ICHmk1 | 101 | 1065174 | Cw Fd[58] Lw Sx Bl[10,13,28,208]Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw 2.0, Fd 1.4, Cw Sx Bl 1.0 |
| | | | Cw Fd[58] Lw Sx Bl[10,13,28,208]Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw Fd[58] Lw Sx | Bl[10,13,28,208]Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Fd[58] Lw Sx | Bl[10,13,28,208]Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHmk1 | 102 | 1065171 | Fd Py[14,203]Lw Pl[13] | | 1 | 300 | 150 | 150 | 0.0 | Pl Lw 1.4, Fd 1.0, Py 0.8 |
| | | | Fd Py[14,203]Lw Pl[13] | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd Py[14,203] | Lw Pl[13] | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd Py[14,203] | Lw Pl[13] | 4 | 600 | 400 | 400 | 1.0 | |
| ICHmk1 | 103 | 1065172 | Fd Lw Pl Py[9,14,203] | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw 1.4, Fd 1.0, Py 0.8 |
| | | | Fd Lw Pl Py[9,14,203] | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Lw | Pl Py[9,14,203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Lw | Pl Py[9,14,203] | 4 | 1000 | 500 | 400 | 2.0 | |
| ICHmk1 | 104 | 1065173 | Fd[32,58]Lw[32]Pl Sx Bl[208] | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw 2.0 Fd 1.4 Sx Bl 1.0 |
| | | | Fd[32,58]Lw[32]Pl Sx Bl[208] | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32,58]Lw[32]Pl Sx | Bl[208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32,58]Lw[32]Pl Sx | Bl[208] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHmk1 | 105 | 1065175 | Fd[58] Lw Pl[201] Sx[10,28,201] Bl[13,204,208] Cw[10,28,32] | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw 2.0, Fd 1.4, Sx Bl Cw 1.0 |
| | | | Fd[58] Lw Pl[201] Sx[10,28,201] Bl[13,204,208] Cw[10,28,32] | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fd[58] Lw Pl[201] Sx[10,28,201] | Bl[13,204,208] Cw[10,28,32] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[58] Lw Pl[201] Sx[10,28,201] | Bl[13,204,208] Cw[10,28,32] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHmk1 | 110 | 1065176 | Cw Fd[32,58] Lw[32] Sx Bl[208] | | 1 | 600 | 300 | 250 | 0.0 | Lw 2.0 Fd 1.4 Cw Sx Bl 0.8 |
| | | | Cw Fd[32,58] Lw[32] Sx Bl[208] | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw Fd[32,58] Lw[32] Sx | Bl[208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Fd[32,58] Lw[32] Sx | Bl[208] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHmk1 | 111 | 1065177 | Cw[32] Sx Bl[208] | | 1 | 600 | 300 | 250 | 0.0 | Cw Sx Bl 0.8 |
| | | | Cw[32] Sx Bl[208] | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw[32] Sx | Bl[208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw[32] Sx | Bl[208] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHmk1 | 112 | 1065178 | Cw[1,32] Sx[1] Bl[1,208] | | 1 | 400 | 200 | 200 | 0.0 | Cw 0.8 Sx 0.8 Bl 0.8 |
| | | | Cw[1,32] Sx[1] Bl[1,208] | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Cw[1,32] Sx[1] | Bl[1,208] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Cw[1,32] Sx[1] | Bl[1,208] | 4 | 1000 | 500 | 400 | 2.0 | |
| ICHxm1 | 101 | 1065263 | Fd Lw Cw Sx Pw Py Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.6), Fd (1.0), Others (0.8) |
| | | | Fd Lw Cw Sx Pw Py Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd [58] Lw Cw Pw [31] | Sx[28] Py [9] Pl [200] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd [58] Lw Cw Pw [31] | Sx[28] Py [9] Pl [200] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHxm1 | 102 | 1065259 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.8), Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd Py | | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd Py | | 4 | 600 | 400 | 400 | 1.0 | |
| ICHxm1 | 103 | 1065260 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.8), Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd Py | | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd Py | | 4 | 600 | 400 | 400 | 1.0 | |
| ICHxm1 | 104 | 1065261 | Fd Py Lw Pl Cw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.2), Fd (0.8), Others (0.6) |
| | | | Fd Py Lw Pl Cw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Py | Lw Pl Cw [10 28] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Py | Lw Pl Cw [10 28] | 4 | 1000 | 500 | 400 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| ICHxm1 | 105 | 1065262 | Fd Lw Pl Py Cw Pw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.2), Fd (0.8), Others (0.6) |
| | | | Fd Lw Pl Py Cw Pw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[58] Lw Pw[31] | Py[9,14] Cw[10] Pl[200] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[58] Lw Pw[31] | Py[9,14] Cw[10] Pl[200] | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHxm1 | 110 | 1065264 | Fd Cw Sx Lw Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.6), Fd (1.0), Others (0.8) |
| | | | Fd Cw Sx Lw Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32 58] Cw Sx Lw[32] | Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32 58] Cw Sx Lw[32] | Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| ICHxm1 | 111 | 1065265 | Cw Sx Pw Fd Lw Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.6), Fd (1.0), Others (0.8) |
| | | | Cw Sx Pw Fd Lw Bl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw Sx | Pw[31] Fd[1 31] Lw[1 31] Bl[208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Sx | Pw[31] Fd[1 32] Lw[1 32] Bl[208] | 4 | 1200 | 700 | 600 | 2.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 1 | 1065183 | Fd Pl Py Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Fd (0.4), Sx Py (0.6) |
| | | | Fd Pl Py Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd | Pl[200] Py[14 203] Sx[10,13] Lw | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | Pl[200] Py[14 203] Sx[10,13] Lw | 4 | 1000 | 500 | 400 | 2.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 2 | 1065179 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.4), Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Py | | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd[27] Py | | 4 | 600 | 400 | 400 | 1.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (very steep slopes with bluebunch wheatgrass) | 1065180 | Py Fd Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Fd (0.4) |
| | | | Py Fd Pl | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Py[14,27] Fd[27] | Pl[13 28] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Py[14,27] Fd[27] | Pl[13 28] | 4 | 1000 | 500 | 400 | 2.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (shallow soils) | 1065181 | Fd Pl Py | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Fd (0.4), Py (0.6) |
| | | | Fd Pl Py | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] Py[14] | Pl[200] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Py[14] | Pl[200] | 4 | 1000 | 500 | 400 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| **IDFdc** (use classification for IDFdk2 in LMH23) | 03 (very steep slopes with pinegrass) | 1065182 | Fd Pl Py | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Fd (0.4), Py (0.6) |
| | | | Fd Pl Py | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] Py [14] | Pl[200] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Py [14] | Pl[200] | 4 | 1000 | 500 | 400 | 2.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 5 | 1065185 | Fd Sx Pl Cw Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Fd (0.4), Others (0.8) |
| | | | Fd Sx Pl Cw Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Sx | Pl [12 200] Cw[32]Bl[208] Lw | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Sx | Pl [12 200] Cw[32]Bl[208] Lw | 4 | 1200 | 700 | 600 | 2.0 | |
| **IDFdc** (use classification for IDFdk2 in LMH23) | 6 | 1065186 | Pl Sx Fd Bl Cw | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Fd (0.4), Others (0.6) |
| | | | Pl Sx Fd Bl Cw | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl[1,12] Sx[1] Fd[1,32] | Bl[1,12,13] Cw [32] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl[1,12] Sx[1] Fd[1,32] | Bl[1,12,13,208] Cw [32] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFdk1 | 101 | 1065191 | Fd Pl Py Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Fd (0.4), Py Sx (0.6) |
| | | | Fd Pl Py Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Pl[201] | Py[9,14] Sx[10,13] Lw[203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Pl[201] | Py[9,14] Sx[10,13] Lw[203] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk1 | 102 | 1065187 | Fd Pl Py | | 1 | 300 | 150 | 150 | 0.0 | Pl (1.0), Fd (0.4), Py (0.6) |
| | | | Fd Pl Py | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Pl | Py[9,14] | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd[27] Pl | Py[9,14] | 4 | 600 | 400 | 400 | 1.0 | |
| IDFdk1 | 103 | 1065188 | Fd Py Pl | | 1 | 300 | 150 | 150 | 0.0 | Pl(1.0),Fd(0.4),Py(0.6) |
| | | | Fd Py Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Py[14] | Pl[13] | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd[27] Py[14] | Pl[13] | 4 | 600 | 400 | 400 | 1.0 | |
| IDFdk1 | 104 | 1065189 | Fd Pl Py Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Others(0.6) |
| | | | Fd Pl Py Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Pl[201] | Py[9,14] Sx [10 13] Lw[203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Pl[201] | Py[9,14] Sx [10 13] Lw[203] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk1 | 105 | 1065190 | Pl Fd Bl Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Sx(0.6) |
| | | | Pl Fd Bl Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl Fd$^{27,32}$ | Bl$^{10,208}$ Sx$^{10}$ Lw$^{27}$ $^{32}$ $^{203}$ | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd$^{27,32}$ | Bl$^{10,208}$ Sx$^{10}$ Lw$^{27}$ $^{32}$ $^{203}$ | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk1 | 111 | 1065192 | Fd Sx Bl Pl Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Others (0.6) |
| | | | Fd Sx Bl Pl Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd$^{32}$ Sx | Bl$^{10,13,208}$ Pl Lw $^{32}$ $^{203}$ | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd$^{32}$ Sx | Bl$^{10,13,208}$ Pl Lw $^{32}$ $^{203}$ | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk1 | 112 | 1065193 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0),Fd(0.4),Others(0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl$^{1,12}$ Sx$^{1}$ | Bl$^{1,12,13,208}$ | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl$^{1,12}$ Sx$^{1}$ | Bl$^{1,12,13,208}$ | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFdk2 | 101 | 1065239 | Fd Pl Py Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Others(0.6) |
| | | | Fd Pl Py Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Pl$^{201}$ | Py$^{9,14}$ Sx$^{10,13}$ Lw$^{203}$ | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Pl$^{201}$ | Py$^{9,14}$ Sx$^{10,13,204}$ Lw$^{203}$ | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk2 | 102 | 1065194 | Fd Py Pl | | 1 | 300 | 150 | 150 | 0.0 | Pl(1.0), Fd(0.4), Py(0.6) |
| | | | Fd Py Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd$^{27}$ Py$^{9,14}$ Pl | | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd$^{27}$ Py$^{9,14}$ Pl | | 4 | 600 | 400 | 400 | 1.0 | |
| IDFdk2 | 103 | 1065195 | Py Fd Pl | | 1 | 300 | 150 | 150 | 0.0 | Pl(1.0), Fd(0.4), Py(0.6) |
| | | | Py Fd Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Py$^{14,27}$ Fd$^{27}$ | Pl$^{13}$ $^{28}$ | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Py$^{14,27}$ Fd$^{27}$ | Pl$^{13}$ $^{28}$ | 4 | 600 | 400 | 400 | 1.0 | |
| IDFdk2 | 104 | 1065196 | Fd Pl Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Py(0.6) |
| | | | Fd Pl Py Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd$^{27}$ Pl$^{201}$ | Py$^{14}$ Lw$^{27}$ $^{203}$ | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd$^{27}$ Pl$^{201}$ | Py$^{14}$ Lw$^{27}$ $^{203}$ | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk2 | 105 | 1065197 | Pl Fd Bl Sx Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.4),Others(0.6) |
| | | | Pl Fd Bl Sx Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd$^{27,32}$ | Bl$^{10,208}$ Sx$^{10}$ Lw | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd$^{27,32}$ | Bl$^{10,204,208}$ Sx$^{10,204}$ Lw$^{203}$ | 4 | 1000 | 500 | 400 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk2 | 110 | 1065240 | Fd Sx Pl Cw Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw(1.4),Fd(0.4),Others(0.8) |
| | | | Fd Sx Pl Cw Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Sx Pl[201] | Cw[32] Bl[208] Lw[32] 203 | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Sx Pl[201] | Cw[32] Bl[208] Lw[32] 203 | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdk2 | 111 | 1065241 | Pl Sx Fd Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl(1.0),Fd(0.4),Others(0.6) |
| | | | Pl Sx Fd Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl[1,12] Sx[1] Fd[1,32] | Bl1,12,13,208 Cw 32 | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl[1,12] Sx[1] Fd[1,32] | Bl[1,12,13,208] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFdk3 | 01 | 1065247 | Fd Pl Sx | | 1 | 600 | 300 | 250 | 0.0 | Pl(1.4),Fd(0.4),Sx(0.8) |
| | | | Fd Pl Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27,32] Pl | Sx[13,28] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27,32] Pl | Sx[13,28] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdk3 | 02 | 1065242 | Fd Pl | | 1 | 300 | 150 | 150 | 0.0 | Pl(1.0), Fd(0.4) |
| | | | Fd Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Pl | | 3 | 600 | 300 | 300 | 1.0 | |
| | | | Fd[27] Pl | | 4 | 800 | 400 | 400 | 1.0 | |
| IDFdk3 | 03 | 1065243 | Fd Pl | | 1 | 300 | 150 | 150 | 0.0 | Pl(1.0), Fd(0.4) |
| | | | Fd Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Pl | | 3 | 600 | 300 | 300 | 1.0 | |
| | | | Fd[27] Pl | | 4 | 800 | 400 | 400 | 1.0 | |
| IDFdk3 | 04 | 1065244 | Fd Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl(1.4),Fd(0.4) |
| | | | Fd Pl | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] Pl | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Pl | | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdk3 | 05 | 1065245 | Fd Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl(1.4),Fd(0.4) |
| | | | Fd Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Pl | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27] Pl | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdk3 | 06 | 1065246 | Fd Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl(1.4),Fd(0.4) |
| | | | Fd Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Pl | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27] Pl | | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| IDFdk3 | 07 | 1065248 | Fd Pl Sx | | 1 | 600 | 300 | 250 | 0.0 | Pl(1.0),Fd(0.4),Sx(0.6) |
| | | | Fd Pl Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Pl Sx | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Pl Sx | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdk3 | 08 | 1065249 | Fd Pl Sx | | 1 | 600 | 300 | 250 | 0.0 | Pl(1.0),Fd(0.4),Sx(0.6) |
| | | | Fd Pl Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Pl Sx | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Pl Sx | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdk3 | 09 | 1065250 | Sx Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl(1.0),Sx(0.6) |
| | | | Sx Pl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1,32] | Pl[1] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1,32] | Pl[1] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFdm1 | 101 | 1065254 | Fd Lw Pl[200] Py[9,14] | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0), Fd(0.8), Py(0.6) |
| | | | Fd Lw Pl[200] Py[9,14] | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Lw | Pl[200] Py[9,14] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Lw | Pl[200] Py[9,14] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdm1 | 102 | 1065251 | Fd[27] Py Lw | | 1 | 300 | 150 | 150 | 0.0 | Lw (1.0),Fd(0.8),Py (0.6) |
| | | | Fd[27] Py Lw | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27] Py | Lw | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd[27] Py | Lw | 4 | 600 | 400 | 400 | 1.0 | |
| IDFdm1 | 103 | 1065252 | Fd[27] Py | | 1 | 300 | 150 | 150 | 0.0 | Fd(0.8),Py (0.6) |
| | | | Fd[27] Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd[27] Py | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd[27] Py | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFdm1 | 104 | 1065253 | Fd Lw Py[203]Pl[10,13,28,204] | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.0),Fd(0.8), Py (0.6) |
| | | | Fd Lw Py[203]Pl[10,13,28,204] | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Lw Py[203] | Pl[10,13,28,204] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Lw Py[203] | Pl[10,13,28,204] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdm1 | 110.1 | 1065255 | Fd[32] Sx Lw[32] Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw(1.4),Fd(1.0),Sx(0.8) |
| | | | Fd[32] Sx Lw[32] Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Sx Lw[32] | Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Sx Lw[32] | Pl | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|
| IDFdm1 | 110.2 | 1065256 | Fd[32] Lw[32] Cw[32] Sx[10,13,201] | | 1 | 600 | 300 | 250 | 0.0 | Cw Sx (0.8),Fd (1.0),Lw (1.4) |
| | | | Fd[32] Lw[32] Cw[32] Sx[10,13,201] | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Lw[32] Cw[32] Sx[10,13,201] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Lw[32] Cw[32] Sx[10,13,201] | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFdm1 | 111 | 1065257 | Fd[32] Lw[32] Sx Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw Fd (1.0), Sx (0.8) |
| | | | Fd[32] Lw[32] Sx Pl | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[32] Lw[32] Sx | Pl | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Lw[32] Sx | Pl | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFdm1 | 112 | 1065258 | Sx[1] Cw[1, 32] Pl[1] | | 1 | 400 | 200 | 200 | 0.0 | Sx Cw (0.6), Pl 1.0 |
| | | | Sx[1] Cw[1, 32] Pl[1] | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] | Cw[1, 32] Pl[1] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] | Cw[1, 32] Pl[1] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFmw2 | 1 | 1065270 | Fd Cw Pl Lw Pw Sx | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Fd Cw Pl Lw Pw Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[58] Cw[28] Pw[31] | Pl [200] Lw[203] Sx[10 28] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[58] Cw[28] Pw[31] | Pl [200] Lw[203] Sx[10 28] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFmw2 | 2 | 1065268 | Fd Pl Py Pw | | 1 | 300 | 150 | 150 | 0.0 | Pl Pw(1.2),Fd(0.8),Py(0.6) |
| | | | Fd Pl Py Pw | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd Pl | Py [203] Pw[31] | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd Pl | Py [203] Pw[31] | 4 | 600 | 400 | 400 | 1.0 | |
| IDFmw2 | 3 | 1065269 | Fd Lw Pw Py Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Fd Lw Pw Py Pl | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd | Lw[203] Pw[31] Py [203] Pl [200] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | Lw[203] Pw[31] Py [203] Pl [200] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFmw2 | 04 subhygric, no devil's club | 1065271 | Fd Cw Sx Pw Lw Bl Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Fd Cw Sx Pw Lw Bl Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[58] Cw Sx | Pw[31] Lw[203]Bl [208]Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[58] Cw Sx[10,13] | Pw[31] Lw[203]Bl [208]Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFmw2 | | 1065272 | Cw Fd Sx Hw Pw Lw Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Cw Fd Sx Hw Pw Lw Bl | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | 04 moist sites with devil's club | | Cw Fd[58] Sx | Hw Pw[31] Lw[32 203] Bl[208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Fd[58] Sx | Hw Pw[31] Lw[32 203] Bl[208] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFmw2 | 5 | 1065273 | Cw Hw Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | All (0.6) |
| | | | Cw Hw Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Cw[1,32] Hw[1,32] Sx[1] | Bl[1 208] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Cw[1,32] Hw[1,32] Sx[1] | Bl[1 208] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFww | 1 | 1065277 | Fd Py Pw Lw Pl Sx Cw | | 1 | 300 | 150 | 150 | 0.0 | Sx(3.0),Pl(2.0),Others(1.5) |
| | | | Fd Py Pw Lw Pl Sx Cw | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd Py | Pw[28 31] Lw[203] Pl[200] Sx[28] Cw[28] | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd Py | Pw[28 31] Lw[203] Pl[200] Sx[28] Cw[28] | 4 | 600 | 400 | 400 | 2.0 | |
| IDFww | 2 | 1065274 | Fd Py | | 1 | 600 | 300 | 250 | 0.0 | Fd(1.0),Py(0.8) |
| | | | Fd Py | | 2 | 800 | 400 | 300 | 1.0 | |
| | | | Fd Py | | 3 | 1000 | 500 | 400 | 1.0 | |
| | | | Fd Py | | 4 | 1200 | 700 | 600 | 1.0 | |
| IDFww | 3 | 1065275 | Fd Py Lw | | 1 | 600 | 300 | 250 | 0.0 | Lw(1.6),Fd(1.0),Py(0.8) |
| | | | Fd Py Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Py | Lw[203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd Py[9,14] | Lw[203] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFww | 4 | 1065276 | Fd Py Pl Sx Cw Lw | | 1 | 300 | 150 | 150 | 0.0 | Pl Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Fd Py Pl Sx Cw Lw | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd Py[9 14] | Pl Sx[10 28] Cw[10 28] Lw[203] | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd Py[9 14] | Pl[200] Sx[10 28] Cw[10 28] Lw[203] | 4 | 600 | 400 | 400 | 2.0 | |
| IDFww | 5 | 1065278 | Fd Cw Pw Lw Bg | | 1 | 600 | 300 | 250 | 0.0 | Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Fd Cw Pw Lw Bg | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw Fd | Pw[31] Lw[203] Bg | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Fd | Pw[31] Lw[203] Bg | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFww | 6 | 1065279 | Sx Fd Bg Lw | | 1 | 600 | 300 | 250 | 0.0 | Lw(1.6),Fd(1.0),Others(0.8) |
| | | | Sx Fd Bg Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Sx Fd | Bg Lw[1 203] | 3 | 1000 | 500 | 400 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sx Fd | Bg Lw [1 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFww | 7 abundant devil's club | 1065280 | Sx Bl Cw | | 1 | 600 | 300 | 250 | 0.0 | All(0.6) |
| | | | Sx Bl Cw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw Sx [13] | Bg Fd [1 32] Lw [1 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw Sx [13] | Bg Fd [1 32] Lw [1 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFww | 7 abundant horsetail | 1065281 | Cw Sx Bl | | 1 | 200 | 100 | 100 | 0.0 | All(0.6) |
| | | | Cw Sx Bl | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Cw [1] Sx [1 13] | Bl [1 13 208] | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Cw [1] Sx [1 13] | Bl [1 13 208] | 4 | 400 | 200 | 200 | 1.0 | |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 1 | 1065284 | Fd Py | | 1 | 400 | 200 | 200 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Fd Py | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] Py | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Py | | 4 | 1000 | 500 | 400 | 2.0 | |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 2 | 1065282 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 1.0 | |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 3 | 1065283 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 6 | 1065285 | Fd Py | | 1 | 600 | 300 | 250 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Fd Py | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | Py | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd | Py | 4 | 1200 | 700 | 600 | 2.0 | |
| **IDFxc** (use classification for IDFxh2 in LMH23) | 7 | 1065286 | Fd Sx Cw | | 1 | 600 | 300 | 250 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Fd Sx Cw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw[14] Fd Sx[13] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw[14] Fd Sx[13] | | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| **IDFxc** (use classification for IDFxh2 in LMH23) | 8 | 1065287 | Sx Fd Cw | | 1 | 400 | 200 | 200 | 0.0 | Fd(0.4) Pl(0.8),Others(06) |
| | | | Sx Fd Cw | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] Fd[1] Cw[1 32] | | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] Fd[1] Cw[1 32] | | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFxh1 | 101 | 1065293 | Fd Py | | 1 | 400 | 200 | 200 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Fd Py | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] Py | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Py | | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFxh1 | 102 | 1065288 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 1.0 | |
| IDFxh1 | 103 | 1065289 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py Fd | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py Fd | | 4 | 400 | 200 | 200 | 1.0 | |
| IDFxh1 | 104 | 1065290 | Py Fd | | 1 | 300 | 150 | 150 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Py Fd[27] | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Py Fd[27] | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFxh1 | 105 | 1065291 | Py Fd | | 1 | 300 | 150 | 150 | 0.0 | Fd(0.4),Others(0.6) |
| | | | Py Fd | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Py Fd[27] | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Py Fd[27] | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFxh1 | 106 | 1065292 | Py Fd | | 1 | 300 | 150 | 150 | 0.0 | Fd(0.4), Others(0.6) |
| | | | Py Fd | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Py Fd[27] | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Py Fd[27] | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFxh1 | 110 | 1065294 | Fd Py | | 1 | 400 | 200 | 200 | 0.0 | Fd(0.4), Others(0.6) |
| | | | Fd Py | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27] | Py[9] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] | Py[9] | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFxh1 | 111.1 | 1065295 | Fd Sx Pl | | 1 | 600 | 300 | 250 | 0.0 | Fd(0.4) Pl(1.0), Others(0.8) |
| | | | Fd Sx Pl | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fd[32] Sx [13] | Pl[12] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Sx [13] | Pl[12] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxh1 | 111.2 | 1065296 | Fd Cw Pl | | 1 | 600 | 300 | 250 | 0.0 | Fd(0.4) Pl(1.0), Others(0.8) |
| | | | Fd Cw Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Cw [14 32] | Pl[12] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd Cw [14 32] | Pl[12] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxh1 | 112 | 1065297 | Sx Fd Pl Cw | | 1 | 600 | 300 | 250 | 0.0 | Fd(0.4) Pl(1.0), Others(0.8) |
| | | | Sx Fd Pl Cw | | 2 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] Fd[1,32] | Pl[1,12, 50] Cw[1,32, 50] | 3 | 1000 | 500 | 400 | 1.0 | |
| | | | Sx[1] Fd[1,32] | Pl[1,12, 50] Cw[1,32, 50] | 4 | 1200 | 700 | 600 | 1.0 | |
| IDFxh2 | 101 | 1065301 | Fd Py | | 1 | 400 | 200 | 200 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Fd Py | | 2 | 600 | 300 | 300 | 2.0 | |
| | | | Fd[27] Py | | 3 | 800 | 400 | 400 | 2.0 | |
| | | | Fd[27] Py | | 4 | 1000 | 500 | 500 | 2.0 | |
| IDFxh2 | 102 | 1065298 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 1.0 | |
| IDFxh2 | 103 | 1065299 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| IDFxh2 | 104 | 1065300 | Py Fd | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Py Fd | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Py Fd[27] | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Py Fd[27] | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFxh2 | 110 | 1065302 | Fd Py | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Fd Py | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | Py | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd | Py | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxh2 | 111 | 1065303 | Fd Py | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Fd Py | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | Py | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd | Py | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| IDFxh2 | 112 | 1065304 | Fd Sx Py Cw Pl | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4), Others (0.6) |
| | | | Fd Sx Py Cw Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Sx[13] | Py Cw[14 32] Pl[12] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd Sx[13] | Py Cw[14 32] Pl[12] | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxh2 | 113 | 1065305 | Sx Fd Pl Cw | | 1 | 400 | 200 | 200 | 0.0 | Pl (0.8),Fd (0.4), Others (0.6) |
| | | | Sx Fd Pl Cw | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] Fd[1,32] | Pl[1,12,50] Cw[1 32 50] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] Fd[1,32] | Pl[1,12,50] Cw[1 32 50] | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFxm | 01a | 1065310 | Fd | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27,28] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27,28] | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 01b | 1065311 | Fd Pl | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4), Others (0.8) |
| | | | Fd Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27,28] Pl | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27,28] Pl | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 02 | 1065306 | Fd | | 1 | 400 | 200 | 200 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Fd[27,28] | | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Fd[27,28] | | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFxm | 03 | 1065307 | Fd Pl | | 1 | 400 | 200 | 200 | 0.0 | Pl (0.8), Fd (0.4) |
| | | | Fd Pl | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27,28] Pl | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27,28] Pl | | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFxm | 04 | 1065308 | Fd | | 1 | 400 | 200 | 200 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[27,28] | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27,28] | | 4 | 1000 | 500 | 400 | 2.0 | |
| IDFxm | 05 | 1065309 | Fd | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27] | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 06 | 1065312 | Fd | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fd[32] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 07 | 1065313 | Fd | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 08 | 1065314 | Fd Sx | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4), Others (0.8) |
| | | | Fd Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[32] Sx | Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[32] Sx | Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxm | 09 | 1065315 | Pl Sx | | 1 | 400 | 200 | 200 | 0.0 | Pl (0.8), Sx (0.6) |
| | | | Pl Sx | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl[1] Sx[1] | | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl[1] Sx[1] | | 4 | 1000 | 500 | 400 | 1.0 | |
| IDFxw | 01 | 1065320 | Fd Py | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) Py (0.8) |
| | | | Fd Py | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] Py | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27] Py | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxw | 02 | 1065316 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.4) Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd[27,28] Py[28] | | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd[27,28] Py[28] | | 4 | 600 | 400 | 400 | 1.0 | |
| IDFxw | 03 | 1065317 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.4) Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd[27,28] Py[28] | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd[27,28] Py[28] | | 4 | 600 | 400 | 400 | 2.0 | |
| IDFxw | 04 | 1065318 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | Fd (0.4) Py (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd[27,28] Py[28] | | 3 | 600 | 300 | 300 | 2.0 | |
| | | | Fd[27,28] Py[28] | | 4 | 800 | 500 | 400 | 2.0 | |
| IDFxw | 05 | 1065319 | Fd | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) |
| | | | Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[27] | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[27] | | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| IDFxw | 06 | 1065321 | Fd Sx | | 1 | 600 | 300 | 250 | 0.0 | Fd (0.4) Sx (0.6) |
| | | | Fd Sx | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Sx | | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd Sx | | 4 | 1200 | 700 | 600 | 2.0 | |
| IDFxw | 07 | 1065322 | Fd Sx | | 1 | 400 | 200 | 200 | 0.0 | Fd (0.4) Sx (0.6) |
| | | | Fd Sx | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Fd Sx | | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Fd Sx | | 4 | 1000 | 500 | 400 | 1.0 | |
| MSdm1 | 101 | 1065326 | Fd$^{14,32,203}$ Lw $^{14,32,203}$ Sx Bl$^{204,208}$ Pl$^{200}$ | | 1 | 600 | 300 | 250 | 0.0 | Fd (1.0), Lw Pl (1.4), Sx Bl (0.8) |
| | | | Fd$^{14,32,203}$ Lw $^{14,32,203}$ Sx Bl$^{204,208}$ Pl$^{200}$ | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd$^{14,32,203}$ Lw $^{14,32,203}$ Sx | Bl$^{204,208}$ Pl$^{200}$ | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd$^{14,32,203}$ Lw $^{14,32,203}$ Sx | Bl$^{204,208}$ Pl$^{200}$ | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm1 | 102 | 1065323 | Fd Lw Py$^{9,14,203}$ Pl | | 1 | 300 | 150 | 150 | 0.0 | Fd Lw Pl (1.0), Py (0.8) |
| | | | Fd Lw Py$^{9,14,203}$ Pl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Fd Lw Py$^{9,14,203}$ | Pl | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Fd Lw Py$^{9,14,203}$ | Pl | 4 | 600 | 400 | 400 | 1.0 | |
| MSdm1 | 103 | 1065324 | Fd Lw Py$^{9,14,203}$ Pl$^{200}$ | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.4), Fd Py (0.8) |
| | | | Fd Lw Py$^{9,14,203}$ Pl$^{200}$ | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd Lw Py$^{9,14,203}$ | Pl$^{200}$ | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Lw Py$^{9,14,203}$ | Pl$^{200}$ | 4 | 1000 | 500 | 400 | 2.0 | |
| MSdm1 | 104 | 1065325 | Pl Fd$^{32}$ Lw$^{32}$ Bl$^{208}$ Sx$^{28}$ | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Fd Bl Sx (0.6) |
| | | | Pl Fd$^{32}$ Lw$^{32}$ Bl$^{208}$ Sx$^{28}$ | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd$^{32}$ Lw$^{32}$ | Bl$^{208}$ Sx$^{28}$ | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Fd$^{32}$ Lw$^{32}$ | Bl$^{208}$ Sx$^{28}$ | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm1 | 110 | 1065327 | Pl$^{201}$ Sx Bl$^{201,208}$ Fd$^{14,32}$ Lw$^{14,32}$ | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Sx Bl Fd (1.0) |
| | | | Pl$^{201}$ Sx Bl$^{201,208}$ Fd$^{14,32}$ Lw$^{14,32}$ | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl$^{201}$ Sx Bl$^{201,208}$ | Fd$^{14,32}$ Lw$^{14,32}$ | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl$^{201}$ Sx Bl$^{201,208}$ | Fd$^{14,32}$ Lw$^{14,32}$ | 4 | 1200 | 700 | 600 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| MSdm1 | 111.1 | 1065328 | Pl[201] Sx Bl[201 208] Fd[14 32] Lw[14,32] | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Sx Bl Fd (0.8) |
| | | | Pl[201] Sx Bl[201 208] Fd[14 32] Lw[14,32] | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl[201] Sx Bl[201 208] | Fd[14 32] Lw[14,32] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl[201] Sx Bl[201 208] | Fd[14 32] Lw[14,32] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm1 | 111.2 | 1065329 | Cw[32] Lw[32] Sx Bl[208] Fd[14,32] Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Cw Sx Bl Fd (0.8) |
| | | | Cw[32] Lw[32] Sx Bl[208] Fd[14,32] Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Cw[32] Lw[32] Sx | Bl[208] Fd[14,32] Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Cw[32] Lw[32] Sx | Bl[208] Fd[14,32] Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm1 | 112 | 1065330 | Bl[201,208] Sx Fd[14,32] Lw[14,32] Pl | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Bl Sx Fd (1.0) |
| | | | Bl[201,208] Sx Fd[14,32] Lw[14,32] Pl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Bl[201,208] Sx | Fd[14,32] Lw[14,32] Pl | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Bl[201,208] Sx | Fd[14,32] Lw[14,32] Pl | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm1 | 113 | 1065331 | Sx[1] Bl[1,201,208] Pl[1] | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Bl Sx (0.8) |
| | | | Sx[1] Bl[1,201,208] Pl[1] | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] Bl[1, 201, 208] | Pl[1] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] Bl[1, 201, 208] | Pl[1] | 4 | 1000 | 500 | 400 | 1.0 | |
| MSdm2 | 101 | 1065336 | Pl Sx Fd Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | |
| | | | Pl Sx Fd Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx Fd[9 14 32] Bl[201 208] | Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx Fd[9 14 32] Bl[201 208] | Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | Pl Lw (1.4), Others (0.8) |
| MSdm2 | 102 | 1065332 | Pl Fd Bl | | 1 | 300 | 150 | 150 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Fd Bl | | 2 | 400 | 200 | 200 | 1.0 | |
| | | | Pl Fd[14] | Py[14 203] Bl[13 204] | 3 | 500 | 300 | 300 | 1.0 | |
| | | | Pl Fd[14] | Py[14 203] Bl[13 204 208] | 4 | 600 | 400 | 400 | 1.0 | |
| MSdm2 | 103 | 1065333 | Fd Pl Bl Sx | | 1 | 400 | 200 | 200 | 0.0 | Pl, Lw (1.0), Others (0.6) |
| | | | Fd Pl Bl Sx | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd[32] | Lw[32 203] Py[9 203] Bl[10,13 204] Sx[10 13 204] | 3 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl Fd[32] | Lw [32 203] Py[9 203] Bl[10 13 204 208] Sx[10 13 204] | 4 | 1000 | 500 | 400 | 2.0 | |
| MSdm2 | 104 | 1065334 | Fd Pl Sx Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Fd Pl Sx Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[9 14 32] Pl Sx[10 13 28] | Bl [10 13 28] Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[9 14 32] Pl Sx[10 13 28] | Bl [10 13 28 208] Lw[14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm2 | 105 | 1065335 | Pl Sx Bl Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Bl Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl, Sx, Bl [201 208] | Fd[9 14 32] Lw [9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl, Sx, Bl [201 208] | Fd[9 14 32] Lw [9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm2 | 110 | 1065337 | Pl Sx Bl Lw Fd | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Bl Lw Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Lw [9 14 32 203] Fd [9 14 32] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Lw [9 14 32 203] Fd [9 14 32] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm2 | 111 | 1065338 | Pl Sx Bl Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |
| | | | Pl Sx Bl Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Fd [14, 32] Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Fd [14, 32] Lw[14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm2 | 112 | 1065339 | Sx Bl Pl Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Sx Bl Pl Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Sx Bl[201 208] | Pl Fd [9 14 32] Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Sx Bl[201 208] | Pl Fd [9 14 32] Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSdm2 | 113 | 1065340 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl[1] Sx[1] | Bl[1 208R] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl[1] Sx[1] | Bl[1 208R] | 4 | 1000 | 500 | 400 | 1.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 1 | 1065344 | Pl Sx Fd Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Fd Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx Fd[14 32] Bl [201 208] | Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl Sx Fd[14 32] Bl[201 208] | Lw[14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 3 shallow soils | 1065341 | Pl Fd Py | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Fd Py | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl Fd[14] | Py[14 203] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl Fd[14] | Py[14 203] | 4 | 1000 | 500 | 400 | 1.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 3 deep soils | 1065342 | Fd Pl Bl Sx Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Others (0.6) |
| | | | Fd Pl Bl Sx Py Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Fd[14] Pl | Bl[10 13 204] Sx[10 13 204] Lw[32 203] Py[14 203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[14] Pl | Bl[10 13 204 208] Sx[10 13 204] Lw[32 203] Py[14 203] | 4 | 1000 | 500 | 400 | 2.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 4 | 1065343 | Fd Pl Sx Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Fd Pl Sx Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Fd[14 32] Pl Sx[13] | Bl[13] Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Fd[14 32] Pl Sx[13] | Bl[13] Lw[14 32 203 208] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 5 | 1065345 | Pl Sx Bl Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Bl Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Fd [14, 32] Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx Bl [201 208] | Fd [14, 32] Lw[14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 6 | 1065346 | Sx Bl Pl Fd Lw Cw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Sx Bl Pl Fd Lw Cw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Sx Bl[201 208] | Pl [200] Fd[14 32] Lw[14 32 203] Cw [32] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Sx Bl[201 208] | Pl [200] Fd[14 32] Lw[14 32 203] Cw [32] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSdm3** (use classification for MSdm2 in LMH23) | 7 | 1065347 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] Bl[1, 201, 208R] | Pl[1 200] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] Bl[1, 201, 208R] | Pl[1 200] | 4 | 1000 | 500 | 400 | 1.0 | |
| MSxk1 | 101a | 1065353 | Pl Fd Sx Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Fd Sx Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl Fd[9 14 32] Sx[10, 13] | Bl[10 13 208] Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Fd[9 14 32] Sx[10, 13] | Bl[10 13 208] Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk1 | 101b | 1065350 | Pl Fd Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Others (0.6) |
| | | | Pl Fd Py Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd[9 14 32] | Py[14 32 203] Lw[9 14 32 203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd[9 14 32] | Py[14 32 203] Lw[9 14 32 203] | 4 | 1000 | 500 | 400 | 2.0 | |
| MSxk1 | 102 | 1065348 | Pl Fd Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Others (0.6) |
| | | | Pl Fd Py Lw | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl Fd[9 14 32] | Py[14 203] Lw[9 14 32 203] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl Fd[9 14 32] | Py[14 203] Lw[9 14 32 203] | 4 | 1000 | 500 | 400 | 1.0 | |
| MSxk1 | 103 | 1065349 | Pl Fd | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Fd (0.6) |
| | | | Pl Fd | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd[9 14 32] | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd[9 14 32] | | 4 | 1000 | 500 | 400 | 2.0 | |
| MSxk1 | 104 | 1065351 | Pl Sx Fd Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Fd Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl | Sx[13] Fd[14 32] Bl[13 208] Lw[14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl | Sx[13] Fd[14 32] Bl[13 208] Lw[14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk1 | 105 | 1065352 | Pl Sx Fd Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Fd Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx[10 13] | Bl[10 13 208] Fd[9 14 32] Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx[10 13] | Bl[10 13 208] Fd[9 14 32] Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk1 | 110 | 1065354 | Pl Sx Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |
| | | | Pl Sx Bl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl, Sx | Bl[10 13 208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl, Sx | Bl[10 13 208] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk1 | 111 | 1065355 | Pl Sx Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 800 | 400 | 300 | 2.0 | |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl, Sx | Bl 208 | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl, Sx | Bl 208 | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk1 | 112 | 1065356 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl1 Sx1 | Bl1 208 | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl1 Sx1 | Bl1 208 | 4 | 1000 | 500 | 400 | 1.0 | |
| MSxk1 | 113 | 1065357 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl1 Sx1 | Bl1 208 | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl1 Sx1 | Bl1 208 | 4 | 1000 | 500 | 400 | 1.0 | |
| MSxk2 | 101 | 1065363 | Pl Fd Sx Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Fd Sx Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd9,14,32 Sx10,13 | Bl10,13 Lw 9 14, 32 203 | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Fd9,14,32 Sx10,13 | Bl10,13 Lw 9 14 32 203 208 | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk2 | 102 | 1065358 | Pl Fd Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Fd Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl Fd9,14 32 | Bl13 28 208 204 | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl Fd9,14 32 | Bl13 28 208 204 | 4 | 1000 | 500 | 400 | 1.0 | |
| MSxk2 | 103 | 1065359 | Pl Fd Sx | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Fd Sx | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd9,14 32 | Sx10,13,28 | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd9,14 32 | Sx10,13,28 | 4 | 1000 | 500 | 400 | 2.0 | |
| MSxk2 | 104 | 1065360 | Pl Fd Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Others (0.6) |
| | | | Pl Fd Py Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl201 Fd32 | Py14 203 Lw 9 14 32 203 | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl201 Fd32 | Py14 203 Lw 9 14 32 203 | 4 | 1000 | 500 | 400 | 2.0 | |
| MSxk2 | 105 | 1065361 | Pl Sx Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Sx Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl | Sx10,13Fd9,14, 32 Lw9 14 32 203 | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl | Sx10,13Fd9,14, 32 Lw9 14 32 203 | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk2 | 106 | 1065362 | Pl Sx Bl Fd Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |

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|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pl Sx Bl Fd Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx [10, 13] | Bl[10,13 208] Fd[9,14,32] Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx [10, 13] | Bl[10,13 208] Fd[9,14,32] Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk2 | 110 | 1065364 | Pl Sx Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |
| | | | Pl Sx Bl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx | Bl[10,13 208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx | Bl[10,13 208] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk2 | 111 | 1065365 | Pl Sx Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |
| | | | Pl Sx Bl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Sx | Bl [208] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Sx | Bl [208] | 4 | 1200 | 700 | 600 | 2.0 | |
| MSxk2 | 112 | 1065366 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] | Bl[1 208] Pl[1 200] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] | Bl[1 208] Pl[1 200] | 4 | 1000 | 500 | 400 | 1.0 | |
| **MSxk3** (use classification for MSxk) | 1 | 1065369 | Pl Fd Sx Bl Lw | | 1 | 600 | 300 | 250 | 0.0 | Pl Lw (1.4), Others (0.8) |
| | | | Pl Fd Sx Bl Lw | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd[9,14,32] Sx[10,13 28 204] | Bl[1 13 204] Lw[9 14 32 203] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl Fd[9,14,32] Sx[10,13 28 204] | Bl[10 13 204 208] Lw[9 14 32 203] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSxk3** (use classification for MSxk) | 2 | 1065367 | Pl Fd Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Fd Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Pl Fd[9,14] | Bl[10 13 208] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Pl Fd[9,14] | Bl[10 13 204 208] | 4 | 1000 | 500 | 400 | 1.0 | |
| **MSxk3** (use classification for MSxk) | 5 | 1065368 | Pl Fd Bl Sx Py Lw | | 1 | 400 | 200 | 200 | 0.0 | Pl Lw (1.0), Others (0.6) |
| | | | Pl Fd Bl Sx Py Lw | | 2 | 600 | 300 | 250 | 2.0 | |
| | | | Pl Fd[9,14 32] | Bl[10 13 28 204] Sx[10 13 28 204] Py[9 14 32 203] Lw[9 14 32 203] | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Pl Fd[9,14 32] | Bl[10 13 28 204 208] Sx[10 13 28 204] Py[9 14 32 203] Lw[9 14 32 203] | 4 | 1000 | 500 | 400 | 2.0 | |
| | 6 | 1065370 | Pl Sx Bl Fd | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **MSxk3** (use classification for MSxk) | | | Pl Sx Bl Fd | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Pl, Sx Bl [201 208] | Fd[14,32] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Pl, Sx Bl [201 208] | Fd[14,32] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSxk3** (use classification for MSxk) | 8 | 1065371 | Pl Sx Bl | | 1 | 600 | 300 | 250 | 0.0 | Pl (1.4), Others (0.8) |
| | | | Pl Sx Bl | | 2 | 800 | 400 | 300 | 2.0 | |
| | | | Sx Bl [201 208] | Pl[200] | 3 | 1000 | 500 | 400 | 2.0 | |
| | | | Sx Bl [201 208] | Pl[200] | 4 | 1200 | 700 | 600 | 2.0 | |
| **MSxk3** (use classification for MSxk) | 9 | 1065372 | Pl Sx Bl | | 1 | 400 | 200 | 200 | 0.0 | Pl (1.0), Others (0.6) |
| | | | Pl Sx Bl | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Sx[1] | Bl[1 208] Pl[1 200] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Sx[1] | Bl[1 208] Pl[1 200] | 4 | 1000 | 500 | 400 | 1.0 | |
| PPxh1 | 101 | 1065376 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| PPxh1 | 102 | 1065373 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py[27] | Fd[27] | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py[27] | Fd[27] | 4 | 400 | 200 | 200 | 1.0 | |
| PPxh1 | 103 | 1065374 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py[27] | Fd[27] | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py[27] | Fd[27] | 4 | 400 | 200 | 200 | 2.0 | |
| PPxh1 | 104 | 1065375 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| PPxh1 | 110 | 1065377 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | All (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd Py | | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd Py | | 4 | 600 | 400 | 400 | 2.0 | |
| PPxh1 | 111 | 1065378 | Fd Py | | 1 | 400 | 200 | 200 | 0.0 | All (0.6) |
| | | | Fd Py | | 2 | 600 | 300 | 250 | 2.0 | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fd Py | | 3 | 800 | 400 | 300 | 2.0 | |
| | | | Fd Py | | 4 | 1000 | 500 | 400 | 2.0 | |
| PPxh2 | 101 | 1065382 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py Fd[27] | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py Fd[27] | | 4 | 400 | 200 | 200 | 1.0 | |
| PPxh2 | 102 | 1065379 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 1.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 1.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 1.0 | |
| PPxh2 | 103a | 1065380 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| PPxh2 | 103b | 1065381 | Py Fd | | 1 | 200 | 100 | 100 | 0.0 | All (0.6) |
| | | | Py Fd | | 2 | 300 | 125 | 125 | 2.0 | |
| | | | Py[27] Fd[27] | | 3 | 300 | 150 | 150 | 2.0 | |
| | | | Py[27] Fd[27] | | 4 | 400 | 200 | 200 | 2.0 | |
| PPxh2 | 110.1 | 1065383 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | All (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd | Py | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd | Py | 4 | 600 | 400 | 400 | 2.0 | |
| PPxh2 | 110.2 | 1065384 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | All (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd | Py | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd | Py | 4 | 600 | 400 | 400 | 2.0 | |
| PPxh2 | 111 | 1065385 | Fd Py | | 1 | 300 | 150 | 150 | 0.0 | All (0.6) |
| | | | Fd Py | | 2 | 400 | 200 | 200 | 2.0 | |
| | | | Fd | Py | 3 | 500 | 300 | 300 | 2.0 | |
| | | | Fd | Py | 4 | 600 | 400 | 400 | 2.0 | |
| PPxh2 | 112 | 1065386 | Fd Sx Py | | 1 | 400 | 200 | 200 | 0.0 | All (0.6) |
| | | | Fd Sx Py | | 2 | 600 | 300 | 250 | 1.0 | |
| | | | Fd[1,] | Sx[1 12, 204] Py[1] | 3 | 800 | 400 | 300 | 1.0 | |
| | | | Fd[1,] | Sx[1 12, 204] Py[1] | 4 | 1000 | 500 | 400 | 1.0 | |

## Appendix A-3 FDU's #1 through #4 - Stocking Standards Footnotes

Biogeoclimatic unit" or "BGC classification" means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.
"MIN or "Min" means minimum.

**Conifer Tree Species**
"Ba" means amabilis fir;
"Bg" means grand fir;
"Bl" means subalpine fir;
"Bp" means noble fir;
"Cw" means western red cedar;
"Fd" means Douglas-fir;
"Hm" means mountain hemlock;
"Hw" means western hemlock;
"Lt" means tamarack;
"Lw" means western larch;
"Pa" means whitebark pine;
"Pl" means lodgepole pine;
"Pw" means white pine;
"Py" means ponderosa pine;
"Sb" means black spruce;
"Se" means Engelmann spruce;
"Ss" means Sitka spruce;
"Sw" means white spruce;
"Sx" means hybrid spruce or interior spruce;
"Sxs" means hybrid Sitka spruce;
"Sxw" means hybrid white spruce;
"Yc" means yellow cedar.

Broadleaf Species
"Acb" means balsam poplar;
"Act" means black cottonwood;
"At" means trembling aspen;
"Dr" means red alder;
"Ep" means common paper birch;
"Mb" means bigleaf maple;
"Qg" means garry oak
"Ra" means arbutus;

| Footnote# | Footnote |
|---|---|
| * | Avoid Logging |
| 1 | suitable on elevated microsites |
| 2 | retired July 2017 |
| 3 | suitable on coarse-textured soils |
| 4 | Suitable medium-textured soils |
| 5 | footnote retired |
| 6 | suitable on nutrient-very-poor sites |
| 7 | suitable on nutrient-medium sites |
| 8 | suitable on steep slopes |
| 9 | suitable on warm aspects |
| 10 | suitable on cool aspects |
| 11 | suitable on crest slope positions |
| 12 | suitable on cold air drainage sites |
| 13 | suitable at upper elevations |
| 14 | suitable at lower elevations |
| 15 | suitable in the northern portion of biogeoclimatic unit |
| 16 | suitable in the southern portion of biogeoclimatic unit |
| 17 | suitable in the western portion of biogeoclimatic unit |
| 18 | suitable in the eastern portion of biogeoclimatic unit |
| 19 | retired July 2017 |
| 20 | retired July 2017 |
| 21 | retired July 2017 |
| 22 | suitable in the southern Gardner Canal-Kitlope area |
| 23 | retired July 2017 |
| 24 | suitable in wetter portion of biogeoclimatic unit |
| 25 | retired July 2017 |

26 suitable minor species on nutrient poor sites
27 partial high-canopy shade required for successful establishment
28 limited by moisture deficit
29 risk of heavy browsing by moose
30 retired November 2010
31 must use of blister rust resistant stock.
See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information.
32 limited by growing-season frosts
33 footnote retired and replaced with footnote 'a'
34 risk of snow damage
35 use resistant stock to mitigate risk of spruce weevil damage - See Ss Weevil Decision Tool: http://pubs.cif-ifc.org/doi/abs/10.5558/tfc2013-042
36 retired July 2017
37 retired November 2010
38 footnote retired
39 retired July 2017
40 risk of redheart damage in areas subject to cold winter outflow winds
41 limited by poorly drained soils
42 suitable on sites with a fresh soil moisture regime
43 retired July 2017
44 suitable in areas of the subzone variant with relatively strong maritime influence
45 suitable in areas of the subzone variant with relatively strong continental influence
46 use resistant seedlot south of the Dean Channel
47 risk of balsam wooly adelgid within quarantine area see http://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/animals-and-crops/plant-health/insects-and-plant-diseases/nursery-and-ornamentals/balsam-woolly-adelgid
48 risk of browsing by deer
49 retired November 2010
50 restricted to sites where the species occurs as a major species in a pre-harvest, natural stand
51 retired July 2017
52 suitable on sheltered microsites with deep soil
53 minor component
54 retired July 2017
55 retired July 2017

Broadleaf Management Constraints

a productive, reliable, and feasible regeneration option
b limited in productivity, reliability and/or feasibility

Localized Footnotes

56 retired July 2017
57 retired November 2010
58 South Area - Fd limited to a max 50% of preferred and acceptable well-spaced stems in the IDFmw and all subzones of the ICH due to root rot.
See Root Rot Handbook for management issues (FLNRORD 2018).
59 Prince George region - max 1,400 total sph of aspen and cottonwood.
Treat as 'ghost' trees in surveys.
60 retired July 2017
61 retired July 2017
62 retired November 2010
63 retired July 2017
66 Mackenzie forest district - may be preferred where risk of snow damage is low or risk of frost damage is excessive on spruce
67 Retired July 2017
68 Retired July 2017

| | |
|---|---|
| 69 | suitable at upper elevations of the biogeoclimatic unit only when used in the southern portion of the biogeoclimatic unit |
| 70 | retired July 2017 |
| 200 | Pl can be moved from Acceptable to Preferred, to the extent specified below, only on sites where there is a low risk of damage from forest health factors:<br>• where there is > 50% Pl in the pre-harvest stand, Pl can be moved to preferred;<br>• where there is 25-50% Pl in the pre-harvest stand, Pl can be moved to preferred to a maximum of 50% well-spaced stems.<br>For areas with less than 25% Pl in the pre-harvest stand, or where risk of damage from forest health factors is moderate or high, Pl remains acceptable. |
| 201 | maximum 50% of preferred and acceptable well-spaced trees |
| 202 | no advance regeneration in even aged stand management |
| 203 | recommended on sites for climate change adaptation |
| 204 | not recommended due to climate change concerns |
| 205 | limited by cold temperatures |
| 206 | plant on exposed mineral soils |
| 207 | obstacle planting recommended |
| 208 | In addition to the free growing damage criteria, Bl advanced regeneration can be counted as well-spaced only where it meets the following criteria at free growing in even aged management:<br>• apical dominance > 1 (as measured by comparing ratio of leader height to length of most recent branch whorl) at free growing<br>• 75% live crown;<br>• no scars, forks, crooks, or sweeps, and;<br>• where it is < 1.5 m ht at time of harvest. |

## Appendix A-4 FDU's #1 through #4 - General Standards and Variances

The Thompson Okanagan Region Stocking Standards and Variances dated December 9, 2021 apply to the following FDU's: FDU 1-Kamloops, FDU 2-Merritt, FDU 3-Okanagan and FDU 4-TFL 49.

**Thompson Okanagan Regional Stocking Standards**

Section 44(1) of the Forest Planning and Practices Regulation (FPPR) apply to all areas harvested under the Forest Stewardship Plan (FSP), except where exempted from the requirement of Section 29(1) or (2) of the Forest and Range Practices Act.

The stocking standards detailed in Appendix 1 and 2 shall apply to areas harvested under FSP or Woodlot License Plan (WLP). As per Section 197(5) of the Forest and Range Practices Act, these stocking standards may also be applied to areas previously harvested under a Forest Development Plan or FSP.

***Definitions***

"Broadleaf or Broadleaves" – means balsam poplar, black cottonwood, trembling aspen, and paper birch.

"Management Unit" – means any one of the Kamloops, Lillooet, Merritt, and Okanagan Timber Supply Areas and Tree Farm Licenses 18, 33, 35, 49, and 59.

"Sub-Hygric" – means a soil moisture regime in which water is removed slowly enough to keep the soil wet for a significant part of the growing season. There may be some temporary seepage and possibly mottling below 20 cm (from Field Manual for Describing Terrestrial Ecosystems, Land Management Handbook 25, 2010).

***General Standards***

**G-1) Crop Tree Assessment**

Regeneration and free growing surveys will be conducted under the oversight of a Forest Professional and/or Accredited Surveyor. Survey methodologies and tree acceptability criteria are as specified in the *Resource Practices Branch, Silviculture Survey Procedures Manual-May 1, 2020* and the *FS660- Silviculture Survey Reference* field card, as amended from time to time, unless specified or varied through provisions of this FSP.

**G-2) Stocking Standards for Areas of Intermediate Cutting or Harvesting of Special Forest Products**

Where a stand is harvested consistent with FPPR section 44 (4), other than harvesting for the purpose of uneven-aged management, it shall be deemed an intermediate harvest where the harvested stand complies with the conditions specified below for a minimum period of 12 months following the completion of harvesting.

a) greater than 20 m2 average basal must be retained in trees with a diameter at breast height of ≥ 12.5 cm; and

b) Trees contributing to the retained basal area comply with the attributes defined in the *Silviculture Surveys Procedures Manual* "Free growing damage criteria for single entry dispersed retention stocking standard (SEDRESS) managed stands in Interior Deviation from Potential (DFP) and Layered Surveys"; and
c) trees contributing to the retained basal area must be the species identified as preferred and acceptable in the Thompson Okanagan Regional Stocking Standards; and

If during the 12 months period following the completion of harvesting the conditions specified above are not maintained, the licensee shall hold a free growing obligation on the harvested area and the appropriate stocking standards in the Thompson Okanagan Regional Stocking Standards shall be applied.

**G-3) Brush Competition**

Residual layer one and two broadleaf trees remaining post-harvest will not be considered competing at the time of the free growing evaluation.

Where a brushing treatment has been undertaken, and a no treatment buffer was retained, as visual screening required on Moose Winter Range identified in the Kamloops Land and Resource Management Plan (LRMP) or, within early seral openings > 40 ha within Moose Winter Range identified in the Okanagan Shuswap LRMP; or, within Moose Management Units identified in the Okanagan Shuswap LRMP; or, other Site Level Plan to achieve an objective set by Government, broadleaves and shrubs will not be considered competing brush when conducting a free growing survey where survey plots fall within the buffer.

Broadleaves and shrubs are not considered competing brush when conducting a free growing survey within the Riparian Management Zone of:

- An S4, S5, or S6 stream or;
- A temperature sensitive stream or;
- Wetlands >0.25 ha

For the purposes of free growing assessments in the SBPS Biogeoclimatic (BEC) zone, scrub birch (Betula glandulosa) which provides frost protection, will be considered non-competing when assessing the free growing status of spruce crop trees.

**G-4) Maximum Density**

The maximum density of coniferous trees is based on the number of dominant and codominant trees per hectare. The identification of sites expected to reach repression densities and therefore requiring treatment will be completed as per the Repression Density Treatment Decision Key (April 21, 2016) or as amended from time to time.

**G-5) Minimum Inter-Tree Distance (MITD)**

The Default Free Growing MITD's for each BEC/Site Series covered under the FSP are listed in Appendix 1 and 2. The MITD that may be used at the regeneration establishment phase is also identified in Appendix 1.

**G-6) Uneven-Aged Stocking Standards**

Uneven-aged stocking standards and multi-story survey procedures will be applied consistent with the current Silviculture Surveys Procedures Manual 2020, or as amended from time to time. Appendix 2 includes the stocking standards where uneven-aged Douglas-fir management is prescribed in the IDFd, IDFm, IDFw, IDFx, MSd, MSx, and PPx subzones to maintain or enhance Douglas-fir in Douglas-fir leading stands. Uneven-aged standards are also included for the ICHxm1 and ICHmk1 as these subzones are transitional to the IDF and uneven-aged management may be required to achieve an objective set by Government.

**G-7) Fire Management Stocking Standards**

Fire management stocking standards will be developed where Fuel Management Prescriptions are required. The Fire Management Stocking Standards may be developed in the following circumstances:

a) Within 2 km of high value infrastructure or resource values on the land base as identified in an approved Natural Resource District Management Plan or;
b) As directed by the District Manager.

**G-8) Deviation from Potential (DFP) Survey Methodology to Assess Stocking Levels**

Where harvesting on a Standard Unit (SU) with even aged stocking standards has resulted in partial cutting as a result of

a) forest health management, or

b) where retention of crop trees is required to achieve a result or strategy in the FSP, the deviation from potential (DFP) survey methodology may be used to assess compliance with stocking standards provided:
    i. the stratum contains between five (5) and twenty (20) m2/ha of residual basal area in stems ≥ 12.5 cm dbh, of preferred and/or acceptable species listed in Appendix 1; and
    ii. the stratum is > 1 ha in size; and
    iii. the SU is not being managed to uneven-aged standards.

**G-9) Conversion of Multi-Story Stand to Even-Aged Management Following a Disturbance**

Where an SU or a portion thereof is impacted by a disturbance to the extent that the stand is no longer suitable for surveying under the multi-storey survey methodology (as delineated in Section 9.2.11 of the Silviculture Surveys Procedures Manual 2018 or as amended from time to time), the impacted portion shall be defined as a separate SU and even-aged stocking standards shall be applied to the area.

***Variations from General Standards***

The Holder of the FSP may vary stocking standard listed in Appendix 1 and Appendix 2 as defined in the following situations and circumstances:

**V-1) Multiple Harvest Entries**

Where harvesting occurs over multiple years on SUs with a 4-year regeneration delay, regeneration delay may be extended by 4 years after the start of the last harvest entry.

**V-2) Seven Year Regeneration Delay**

Within two years of harvest completion, and following a post-harvest assessment, if an SU with a 4-year regeneration delay is prescribed for natural regeneration or direct seeding, the regeneration delay may be varied to 7 years.

**V-3) Changes to Milestones Due to Damage Caused by Wildfire**

Where any portion of a standards unit larger than the minimum free growing stratum size for that SU is damaged by wildfire such that the SU is left Not Satisfactorily Restocked (NSR) according to the currently approved stocking standard, then:

a) a new disturbance shall be reported for that opening;
b) the NSR portion of the original standards unit may be defined as a new SU; and
c) the appropriate stocking standards from Appendix 1 shall apply with the exception that;
    i. if the Regeneration Delay period has not elapsed, then Regeneration Delay and Late Free Growing shall be calculated from the new disturbance date, or
    ii. if the Regeneration Delay period has elapsed, then a new Regeneration Delay period will not apply and only Late Free Growing shall be calculated from the new disturbance date.

**V-4) Reduced Minimum Inter-Tree Distance (MITD)**

Special Circumstances: As outlined in the Establishment to Free Growing Guidebook, Kamloops Forest Region, there are situations where a reduced MITD is appropriate (Page 19 of the Establishment to Free Growing Guidebook: Kamloops Forest Region, Version 2.2/May 2000). Consistent with the Guidebook, the following reduced MITD's will apply:

A. Rocky Sites – The MITD may be reduced to 1.0 m on rocky sites where:
    a. There are insufficient plantable spots to meet current target stocking standards and/or >25% exposed rock and/or the soil depth is < 10 cm
B. Obstacle Planting for Cattle Management – The MITD may be reduced to 1.6 m where there is evidence of cattle and/or horse use and the site is to be planted utilizing obstacles to prevent seedling damage. Where there is heavy cattle or horse use and obstacle planting is to be used, the MITD may be reduced to 1.0 m on SUs within these cutblocks. Heavy cattle use cutblocks are defined as those which:
    a. Have well established cattle trails, salt block, or a cattle watering hole within it or within 100 m of its boundary and/or;
    b. Have been broadcast seeded for cattle forage purposes and/or;
    c. Are covered by a Grazing Lease

C. Riparian Management Zone – Within a Riparian Management Zone where a significant number of trees have been retained (> 5 m2 of basal area), the MITD may be reduced to 1.0 m to assist in the achievement of the desired stocking level.
D. Risk of Snow Creep – On slopes exceeding 40% where obstacle planting to prevent snow creep damage will be undertaken, the MITD may be reduced to 1.0 m.
E. Areas of Heavy, Untreatable Slash – On slopes exceeding 35%, where heavy slash accumulations impede the ability to meet the target stocking, and site preparation is not practicable, the MITD for planting may be reduced to 1.6 m to provide opportunities for better planting microsite selection.
F. Mechanically Site Prepared Areas – where the default MITD is 2.0 m, the MITD for planting on mechanically site prepared areas shall be 1.6 m.
G. Replant Areas – where a previously planted area is replanted, the MITD may be reduced to 1.0 m.

**V-5) Variation to Preferred and/or Acceptable Species**

Where 20% or greater of the pre-harvest merchantable volume (as defined in the cruise information) is of a conifer species not identified as a preferred species in the approved stocking standards, that species may be considered as a preferred species up to a maximum of 30% of the well-spaced stems per ha, where it is expected to form a merchantable tree.

**V-6) Mule Deer Winter Range**

Within all mule deer winter range GAR Order units to which this FSP applies (U-3-003, U-5-003, and U-8-001), Douglas-fir will be considered a preferred species for the purposes of the stocking standards in addition to the species listed in Appendix 1.

**V-7) Standard for the Reduction of Weevil Damage**

If,

a. there is an active white pine weevil (Pissodes strobi) population on the block or an adjacent managed opening as evidenced by the presence of weevil damaged trees, and
b. the spruce trees being assessed are of acceptable form and vigour and meet all other acceptability criteria (i.e., preferred or acceptable species, minimum height, MITD),

then for the purpose of assessing the free growing status of spruce crop trees, all broadleaf vegetation shall be assessed as non-competing brush.

**V-8) Management of Root Disease Sites**

A. **Where Stumping is Not Practicable**:

There are a number of operational restrictions for stumping that render it an impracticable treatment option. These restrictions include:

- Continuous slopes > 30%
- Soil textures that are susceptible to compaction
- Soil depths that are shallow over bedrock
- Soil moisture regimes that are sub-hygric or wetter
- Being within a Riparian Reserve Zone, fish bearing streams or wetlands
- Where stumping will negatively affect reserve trees, reserved areas, or reserved standard units
- Where the stumps cannot be safely removed

For SUs where Laminated Root Disease (Phellinus sulphurascens) has been identified and mapped during pre-harvest field surveys at the planning stage of block development, alternate coniferous species as specified in Managing Root Disease in British Columbia - April 2018 (Table 2: The Relative Susceptibility of host tree species to the major root diseases in BC) , for the relevant site series (Appendix 3 of the Guide) intermediately susceptible, tolerant or resistant may be specified as preferred to maximize species diversity, survival, and productivity on site at the time of planting.

For SUs where Armillaria Root Disease (DRA; Armillaria ostoyae) has been identified and mapped during pre-harvest field surveys at the planning stage of block development, tolerant or intermediately susceptible coniferous species, as specified in Managing Root Disease in British Columbia - April 2018 and listed in Appendix 3 of the Guide for the relevant site series, may be specified as preferred to maximize species diversity, survival, and productivity on site at the time of planting.

B. Brushing on Armillaria Sites:
Where DRA has been identified and mapped in a High Hazard Subzone in the TO Region during pre-harvest field surveys at the planning stage of block development and no brushing treatments are conducted due to the risk of increased DRA inoculum levels in an SU, for the purpose of assessing the free growing status of conifer crop trees, all broadleaf vegetation shall be assessed as non-competing brush.

**V-9) Planting of Western Larch (Lw)**

In areas of use within the Lw1 and Lw2 tested parent tree seed planning zones as identified in the Chief Forester's Standards for Seed Use, Western Larch (Larix occidentalis) may comprise up to 10% of the combined total of the number of seedlings and the number of cuttings that are planted during each calendar year, in a single Management Unit.

The areas where seed orchard Lw seed may be planted are as per Appendix 4 (Larch Seed Zones Projected to 2030 LW1, LW2, May 26, 2014 Map).

Where Lw has been added as an acceptable species in Appendix 1 as per the Chief Forester's Standards for Seed Use (Section 8.11) the minimum free growing height listed for Lw will be the equivalent to that listed for Pl in the applicable subzone/site series.

**V-10) GAR Consistency**

The stocking standards will be varied to the extent required such that they are consistent with identified management objectives of the applicable GAR order.

**V-11) Retention of Pre-Harvest Residual Stems**

Pre-harvest residual stems retained within a Riparian Management Zone identified in a Site Level Plan to achieve an objective set by Government may be considered as well spaced and/or free growing at the time of the Free Growing survey providing they meet the Free Growing Damage criteria and are listed as a preferred or acceptable species in Appendix 1.

**V-12) Intermediate Cutting**

As approved by a District Manager at the site level, where a stand is harvested consistent with FPPR section 44 (4), other than harvesting for the purpose of uneven-aged management, it shall be deemed an intermediate harvest where the harvested stand complies with the conditions specified below for a minimum period of 12 months following the completion of harvesting.

a) greater than 15 m2 average basal must be retained in trees with a diameter at breast high of ≥ 7.5 cm; and
b) Trees contributing to the retained basal area comply with the attributes defined in the Silviculture Surveys Procedures Manual "Free growing damage criteria for single entry dispersed retention stocking standard (SEDRESS) managed stands in Interior Deviation from Potential (DFP) and Layered Surveys"; and
c) trees contributing to the retained basal area must be the species identified as preferred and acceptable in the Thompson Okanagan Regional Stocking Standards.

If during the 12 months period following the completion of harvesting the conditions specified above are not maintained, the licensee shall hold a free growing obligation on the harvested area and the appropriate stocking standards in the Thompson Okanagan Regional Stocking Standards shall be applied.

**V-13) Enhanced Standards** may be developed through the Thompson Okanagan Stocking Standards Working Group in the following circumstances:

- To address areas identified in a District Manager approved natural resource management plan or strategy

or

- As directed/requested by the District Manager

## Appendix A-5 FDU #5 - Arrow - Even Aged Stands

| BGC | | Regeneration Guide | | | | | | | | | | Free Growing Guide | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Classification | | Species | | | | | | Stocking(i) | | | Regen Delay | Assessment | | Min. Height(ii) | |
| | | Conifer | | | | | Broadleaf | Target | MIN pa | MIN p | (Max yrs) | Earliest | Latest | Species | Ht (m) |
| Zone/SZ | Series | Primary | Preferred (p) | Secondary | Acceptable (a) | Tertiary | | (well-spaced/ha) | | | | (yrs) | (yrs) | | |
| **ESSFdc1** | 101 | Se | Bl[201,202] Se | Bl[201,202] Pl | Pl | | | 1200 | 700 | 600 | 4 | 12 | 20 | Pl | 1.6 |
| | | | | | | | | | | | | | | Others | 0.8 |
| | 102 | Pl | Se Pl Pa[13,201] | Se | Bl[202] | Pa Bl[202] | | 1000 | 500 | 400 | 7 | 15 | 20 | Pl | 1.2 |
| | | | | | | | | | | | | | | Others | 0.6 |
| | 103 | Pl | Se Pl Pa[13,201] | Se | Bl[202] | Pa Bl[202] | | 1200 | 700 | 600 | 7 | 15 | 20 | Pl | 1.6 |
| | | | | | | | | | | | | | | Others | 0.8 |
| | 104 | Pl Se | Pl Se | Bl[202] | Bl[202] | | | 1200 | 700 | 600 | 4 | 12 | 20 | Pl | 1.6 |
| | | | | | | | | | | | | | | Others | 0.8 |
| | 110 | Bl[202] Se | Bl[202] Se | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | Bl | 0.8 |
| | | | | | | | | | | | | | | Se | 0.8 |
| | 111 | Bl[32,202] Se[32] | Bl[32,202] Se[32] | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | Bl | 0.8 |
| | | | | | | | | | | | | | | Se | 0.8 |
| | 112 | Bl[1,32,202] Se[1,32] | Bl[1,32,202] Se[1,32] | | | | | 1000 | 500 | 400 | 4 | 12 | 20 | Bl | 0.6 |
| | | | | | | | | | | | | | | Se | 0.6 |
| **ESSFdcw** | 101 | Se | Bl[202] Se | Bl[202] | | | | 1200 | 700 | 600 | 4 | 12 | 20 | All | 0.8 |
| | 102 | Se | Bl[202] Se Pa[201] | Bl[202] | Pl[34] | Pa Pl[34] | | 1000 | 500 | 400 | 7 | 15 | 20 | Pl | 1.2 |
| | | | | | | | | | | | | | | Others | 0.6 |
| | 103 | Se | Bl[202] Se | Bl[202] | Pa | Pa | | 1200 | 700 | 600 | 7 | 15 | 20 | All | 0.8 |
| | 110 | Bl[202] Se | Bl[202] Se | | | | | 1000 | 500 | 400 | 4 | 12 | 20 | All | 0.6 |
| **ESSFmh** | 101 | Bl[202] Se | Cw[14,34,203] Bl[202] Lw[9,14,34] Se | Cw[9,14] Lw[9,14,34] Pl[34] | Pl[34] Hw[9,14] Fd[9,14] Pw[9,14,31] | Hw[9,14] Fd[9,14] Pw[9,14,31] | At[b] Act[b] | 1200 | 700 | 600 | 4 | 12 | 20 | Lw, Pw, Pl | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 |
| | | | | | | | | | | | | | | Others | 1.0 |
| | 102 | Fd[9] Lw[9] | Fd[9] Lw[9] Pl | Pl | Se Bl[202] Pa[13] | Se Bl[202] Pa[13] | | 1000 | 500 | 400 | 7 | 15 | 20 | Lw, Pl | 1.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Fd | 1.2 |
| | | | | | | | | | | | | | | Others | 0.8 |
| | 103 | Fd Lw Pl[34] | Fd Lw Pl[34] Se | Bl[202] Se | Cw Bl Pw[14,31] | Cw Pw[14,31] | | 1200 | 700 | 600 | 7 | 15 | 20 | Lw, Pw, Pl | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 |
| | | | | | | | | | | | | | | Others | 1.0 |
| | 104 | Se Pl[34] | Se Pl[34] | Bl[202] | Bl[202] | | | 1200 | 700 | 600 | 4 | 12 | 20 | Pl | 2.0 |
| | | | | | | | | | | | | | | Others | 1.0 |
| | 105 | Fd[9] Lw[9] Pl[34] Se | Fd[9] Lw[9] Pl[34] Se | Bl[202] | Cw[9] Bl[202] Pw[31] | Cw Pw[9,14,31] | | 1200 | 700 | 600 | 4 | 12 | 20 | Lw, Pw, Pl | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 |
| | | | | | | | | | | | | | | Others | 1.0 |
| | 110 | Bl[202] Se | Bl[202] Se | Hw[14,32] Cw[14,32] | Hw[14,32] Cw[14,32] | | Act[b] | 1200 | 700 | 600 | 4 | 12 | 20 | All | 1.0 |
| | 111 | Bl[202] Se | Bl[202] Se | Cw[14,32] Hw[14,32] | Cw[14,32] Hw[14,32] | | Act[b] | 1200 | 700 | 600 | 4 | 12 | 20 | All | 1.0 |
| | 112 | Bl[1,32,202] Se[1,32] | Bl[1,32,202] Se[1,32] | | | | Act[b] | 1000 | 500 | 400 | 4 | 12 | 20 | All | 0.8 |
| **ESSFwc4** | 101 | Bl[201,202] Se | Bl[201,202] Se | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | Bl | 0.8 |
| | | | | | | | | | | | | | | Se | 0.8 |
| | 102 | Se | Se Pa[201] | Pl[16,34] | Pl[16,34] Bl[202] | Bl[202] Pa | | 1000 | 500 | 400 | 7 | 15 | 20 | Pl | 1.2 |
| | | | | | | | | | | | | | | Others | 0.6 |
| | 103 | Se | Bl[202] Se | Bl[202] Pl[16,34] | Pl[16,34,200] Pa | Pa | | 1200 | 700 | 600 | 7 | 15 | 20 | Pl | 1.6 |
| | | | | | | | | | | | | | | Others | 0.8 |
| | 110 | Bl Se | Bl[202] Se | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | All | 0.8 |
| | 111 | Bl[1,32,202] Se[1,32] | Bl[1,32,202] Se[1,32] | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | All | 0.8 |
| | 112 | Bl[1,32,202] Se[1,32] | Bl[1,32,202] Se[1,32] | | | | | 1000 | 500 | 400 | 4 | 12 | 20 | All | 0.6 |
| **ESSFwcw** | 101 | Bl[202] Se | Bl[202] Se | | | | | 1200 | 700 | 600 | 4 | 12 | 20 | All | 0.8 |
| | 102 | Se | Bl[202] Se Pa[201] | Bl[202] | Pl[34] | Pa Pl[34] | | 1000 | 500 | 400 | 7 | 15 | 20 | Pl | 1.2 |
| | | | | | | | | | | | | | | Others | 0.6 |
| | 103 | Se | Bl[202] Se Pa[201] | Bl[202] | | Pa[201] | | 1200 | 700 | 600 | 7 | 15 | 20 | All | 0.8 |
| | 104 | Se | Bl[202] Se | Bl[202] | La[16] | La[16] | | 1200 | 700 | 600 | 4 | 12 | 20 | All | 0.8 |
| | 110 | Bl[202] Se | Bl[202] Se | | | | | 1000 | 500 | 400 | 4 | 12 | 20 | All | 0.6 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ESSFwh1** | 101 | Bl[201,202] Se | Bl[201,202] Cw[14,34,203] Hw[14,201] Se | Hw[9,14] Pw[31] | Pl[16,34] Fd[9,14,16] Lw[9,14,16] Pw[31] | Cw[9,14] Fd[9,14,16] Lw[9,14,16] Pl[34] | At[b] Act[b] | 1200 | 700 | 600 | 4 | 12 | 20 | Lw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 102 | Pl Se | Fd Pl Se | Fd Bl[202] | Bl[202] Pa[13] | Pa[13] | | 1000 | 500 | 400 | 7 | 15 | 20 | Pl<br>Fd<br>Others | 1.6<br>1.2<br>0.8 |
| | 103 | Se | Se Fd[14,34] Lw[14,34] | Pl[16,34] Bl[202] Fd[14,34] Lw[14,34] | Pl[16,34,200] Bl[202] Pw[14,31] Pa[13] | Pw[9,31] Pa[13] | | 1200 | 700 | 600 | 7 | 15 | 20 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 104 | Se | Se Cw[14,201] Fd[9,14,201] Lw[9,14,201] | Bl Fd[9,14,34] Lw[9,14,34] | Pl[34] Bl[202]Hw[9,14] Pw[9,14,31] | Cw[9,14] Hw[9,14] Pl[34] Pw[9,14,31] | | 1200 | 700 | 600 | 7 | 15 | 20 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 110 | Bl[202] Se | Bl[202] Se | Cw[14,32] Hw[14,32] | Cw[14,32] Hw [14, 32] | | Act[b] | 1200 | 700 | 600 | 4 | 12 | 20 | All | 1.0 |
| | 111 | Bl[1,32,202] Se[1,32] | Bl[1,32,202] Se[1,32] | | Hw[1,32] | Hw[1,32] | | 1000 | 500 | 400 | 4 | 12 | 20 | All | 0.8 |
| **ICHdw1** | 101 | Fd[58] Lw | Cw[10] Fd[58] Lw Pw[31] | Pl Bg Cw Hw Pw[31] | Pl[13] Bg Hw Py[9,14] | Py[9,14] Bl[12,13,204] Sxw[10,12,13,204] | At[a] Ep[a] | 1200 | 700 | 600 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 102 | Fd Py | Fd Py | Lw | Lw Pl[13] | Cw Pl[13] | Ep[b] | 600 | 400 | 400 | 7 | 12 | 15 | Pl, Lw<br>Fd<br>Others | 1.4<br>1.0<br>0.8 |
| | 103 | Fd Py | Fd Lw Py | Lw | Pl[13] Pw[31] | Pl[13] Pw[31] | Ep[b] | 1000 | 500 | 400 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 1.4<br>1.0<br>0.8 |
| | 104 | Fd[58] Lw | Fd[58] Lw Py[9,203] Pw[31] | Py[9,203] Pl Pw[31] | Bg Pl Cw[10,204] | Bg Cw[10,204] Hw | At[a] Ep[a] | 1200 | 700 | 600 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>1.0 | 2.0<br>1.4 |
| | 110 | Cw Fd[1,32,58] Lw[1,32,58] Pw[31] | Cw Fd[1,32,58] Lw[1,32,201] Pw[31]Hw[201] | Hw Bg Sx | Bg Sx | Pl Bl[12,13] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pl, Pw<br>Fd | 2.0<br>1.4 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Others | 1.0 |
| | 111 | Cw Sx | Cw Pw[1,31] Sx | Bg Fd[1,32] Hw Lw[1,32] Pw[1,31] | Bg Fd[1,32] Hw Lw[1,32] | Bl[12,13] Pl[1] | Act[a] At[a] Epa | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 112 | Sx[1] Cw[1,32] | Sx[1] Cw[1,32] | Hw[1,32] | Hw[1,32] Pw[31] | Bl[12,13] Pw[31] | Act[b] At[b] Ep[a] | 1000 | 500 | 400 | 4 | 9 | 15 | Pw<br>Others | 1.4<br>0.8 |
| | 113 | Sx[1] Cw[1,32] | Sx[1] Cw[1,32] | Hw[1,32] | Hw[1,32] | Bl[12,13] | Act[b] At[b] Ep[a] | 1000 | 500 | 400 | 4 | 9 | 15 | Pw<br>Others | 1.4<br>0.8 |
| **ICHmw2** | 101 | Fd[58] Lw | Fd[58] Lw Cw Hw[201] Pw[31] | Cw Hw Sx[10,13 Pw31] | Bl[10,13,202] Sx[10,13] | Bl[10,13] | Act[b] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 102 | Fd Pl | Fd Pl | Lw | Lw Py[9,14,203] | Py[9,14,203] | At[b] | 1000 | 500 | 400 | 7 | 12 | 15 | Lw, Pl<br>Fd<br>Others | 1.4<br>1.0<br>0.8 |
| | 103 | Fd Lw | Fd Lw | | Pl[200] Pw[31 Cw13] Py[9,14,203] | Pl Pw[31 Cw13] Py[9,14,203] | At[a] Ep[b] | 1000 | 500 | 400 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 104 | Fd[58] Lw | Cw[10,201] Fd[58] Lw Pw[31] | Cw Hw Pw[31] | Pl Hw Py[9,14,203] Sx[10,13] | Pl Sx[10,13] Bl[10,13] Py9,14,203 | At[a] Ep[a] | 1200 | 700 | 600 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 110 | Cw | Cw Hw[201] Fd[1,14,32,58] Lw[1,14,32] Pw[31]Sx[10,13,201] | Fd[1,14,32,58] Hw Lw[1,14] Pw[31] Sx[10,13,201] | | Bl[10,13] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 111 | Cw[32] Sx | Cw[32] Pw[1,31] Sx | Hw[32] Pw[31] | Fd[1,14,32,58] Hw[32] Lw[1,14,32] | Fd[1,32] Lw[1,32] Bl | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 112 | Sx | Sx Cw[1,32] | Bl[202] Cw[1,32] | Hw[1,32] Bl[202] | Hw[1,32] | Act[a] | 1200 | 700 | 600 | 4 | 9 | 15 | All | 1.0 |
| | 113 | Cw[1,32] Sx[1] | Cw[1,32] Sx[1] | Bl[1,202] Hw[1,32] | Bl[1,202] Hw[1,32] | | Act[a] | 1000 | 500 | 400 | 4 | 9 | 15 | All | 0.8 |
| | 114 | Cw[1,32] Sx[1] | Cw[1,32] Sx[1] | Bl[1,202] Hw[1,32] | Bl[1,202] Hw[1,32] | | Act[a] | 1000 | 500 | 400 | 4 | 9 | 15 | All | 0.8 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **ICHmw5** | 101 | Fd[58] Lw | Cw Fd[58] Hw[201] Lw Pw[31] Sx[10,13] | Cw Pl Pw[31] Sx[10,13] | Bg[14,16] Pl | Bg Bl[10,13] Hw | Act[b] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 102 | Fd | Fd Pl | Pl Lw | Py[9,14,16,203] Lw | Py[9,14,16,203] | At[a] Ep[a] | 1000 | 500 | 400 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 1.4<br>1.0<br>0.8 |
| | 103 | Fd Lw | Fd Lw | Pl | Pl[200] Pw[31] Py[9,14,16,203] | Pw[31] Py[9,14,16] | At[a] Ep[a] | 1000 | 500 | 400 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 104 | Fd[58] Lw | Fd[58] Lw Pw[31] Cw[201] | Pl[200] Pw[31] | Bg[14,16] Hw Pl[200] Py[9,14,16] Sx[10,13] | Bg[14,16] Bl[10,13] Cw[201] Hw Sx[10,13] | At[a] Ep[a] | 1200 | 700 | 600 | 7 | 12 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 110 | Cw Sx | Cw Hw Fd[1,14,32,58] Lw[1,14,32] Sx | Hw Fd[1,14,32,58] Lw[1,14,32] | Bl[202] Pw[31] | Bl Pl Pw[31] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 111 | Cw[32] Sx | Cw[32] Sx | Bl[202] Fd[1,32] Hw[32] Lw[1,32] | Bl[202] Fd[1,32] Hw[32] Lw[1,32] Pw[31] | Pw[31] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 112 | Sx[1] | Bl[1,202,208] Sx[1] | Bl[1,202] | Hw[1,32] Cw[1,32] | Hw[1,32] | Act[a] At[b] Ep[b] | 1200 | 700 | 600 | 4 | 9 | 15 | All | 1.0 |
| | 113 | Cw[1,32] Sx[1] | Cw[1,32] Sx[1] | Bl[1,202] Hw[1,32] | Bl[1,202] Hw[1,32] | | Act[a] At[b] Ep[b] | 1000 | 500 | 400 | 4 | 9 | 15 | All | 0.8 |
| **ICHwk1** | 01 | Cw Fd[9,14] Hw Sx | Cw Fd[9,14] Hw Sx | Bl[10,13] | Bl[10,13] Pw[31] | Lw[9,14,23,32] Pl[23,34,51] Pw[31] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Pl, Pw, Lw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 |
| | 02 | Fd Pl[51] | Fd Pl[51] Cw[10,13] | | Pw[31] Sx[10,13] | Bl[10,13] Cw[10,13] Hw[10,13] Pw[31] Sx[10,13] | | 1000 | 500 | 400 | 7 | 12 | 15 | Pl, Pw<br>Fd<br>Others | 1.4<br>1.0<br>0.8 |
| | 03 | Fd | Fd Cw[10,13] | Cw[10,13] Hw[10,13] Pl[23,34,51] | Hw[10,13] Pw[31] Sx[10,13] | Bl[10,13] Lw[9,14,23,32] Pw[31] Sx[10,13] | | 1200 | 700 | 600 | 4 | 9 | 15 | Pl, Lw<br>Fd | 2.0<br>1.4 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | Others | 1.0 |
| | 04 | Fd[9,14] | Fd[9,14] Cw Sx[10,13] | Cw Hw Sx[10,13] | Hw Pw[31] | Bl[10,13] Lw[9,14,23,32] Pl[23,34,51] Pw[31] | Act[b] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Pl, Pw, Lw 2.0<br>Fd 1.4<br>Others 1.0 |
| | 05 | Cw[32] Sx | Cw[32] Sx | Bl Fd[1,14,32] Hw[32] Lw[1,9,14,23,32] | Bl Fd[1,14,32] Hw[32] Pw[31] | Pl[23,34,51] Pw[31] | Act[a] At[a] Ep[a] | 1200 | 700 | 600 | 4 | 9 | 15 | Pl, Pw, Lw 2.0<br>Fd 1.4<br>Others 1.0 |
| | 06 | Cw[1,32] Sx[1] | Cw[1,32] Sx[1] | Bl[1] Hw[1,32] | Bl[1] Hw[1,32] Pw[1,31] | Pl[1, 23,34,51] Pw[1,31] | Act[a] At[b] Ep[a] | 1000 | 500 | 400 | 4 | 9 | 15 | Pl, Pw 1.4<br>Others 0.8 |
| | 07 | Cw[1,32] Hw[1,32] Sx[1] | Cw[1,32] Hw[1,32] Sx[1] | Bl[1] | Bl[1] | Pl[23,34,51] | Act[a] At[b] Ep[b] | 1000 | 500 | 400 | 4 | 9 | 15 | Pl 1.4<br>Others 0.8 |
| | 08 | non-forested | | | | | | - | - | - | - | - | - | - - |

## Appendix A-6 *FDU* #5 – Arrow, Uneven-aged Stands

| Target Stocking from Even-Aged Stand (stems/ha) | Layer** | Stocking (well-spaced/ha) *** | | |
|---|---|---|---|---|
| | | Target pa | Minimum pa | Minimum p |
| 1200 | 1 | 600 | 300 | 250 |
| | 2 | 800 | 400 | 300 |
| | 3 | 1000 | 500 | 400 |
| | 4 | 1200 | 700 | 600 |
| 1000 | 1 | 400 | 200 | 200 |
| | 2 | 600 | 300 | 250 |
| | 3 | 800 | 400 | 300 |
| | 4 | 1000 | 500 | 400 |
| 900 | 1 | 400 | 200 | 200 |
| | 2 | 500 | 300 | 250 |
| | 3 | 700 | 400 | 300 |
| | 4 | 900 | 500 | 400 |
| 800 | 1 | 300 | 150 | 150 |
| | 2 | 400 | 200 | 200 |
| | 3 | 600 | 300 | 300 |
| | 4 | 800 | 400 | 400 |
| 600 | 1 | 300 | 150 | 150 |
| | 2 | 400 | 200 | 200 |
| | 3 | 500 | 300 | 300 |
| | 4 | 600 | 400 | 400 |
| 400 | 1 | 200 | 100 | 100 |
| | 2 | 300 | 125 | 125 |
| | 3 | 300 | 150 | 150 |
| | 4 | 400 | 200 | 200 |

Regeneration delay can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets minimum stocking standards. If regeneration is achieved immediately following harvest, earliest free growing date is 12 months after completion of harvest and the latest date is 24 months after completion of harvest.

**Stand Layer Definition

| | | |
|---|---|---|
| Layer 1 | Mature | trees >= 12.5 cm dbh |
| Layer 2 | Pole | trees 7.5 cm to 12.4 cm dbh |
| Layer 3 | Sapling | trees >= 1.3 m height to 7.4 cm dbh |
| Layer 4 | Regeneration | trees < 1.3 m height |

*** pa - preferred and acceptable species p - preferred species

## Appendix A-7 *FDU* #5 – Arrow – Stocking Standard Footnotes

**Conifer Tree Species**

"Ba" means amabilis fir;
"Bg" means grand fir;
"Bl" means subalpine fir;
"Bp" means noble fir;
"Cw" means western red cedar;
"Fd" means Douglas-fir;
"Hm" means mountain hemlock;
"Hw" means western hemlock;
“Lt” means tamarack;
"Lw" means western larch;
“Pa” means whitebark pine;
"Pl" means lodgepole pine;
"Pw" means white pine;
"Py" means ponderosa pine;
“Sb” means black spruce;
“Se” means Engelmann spruce;
"Ss" means Sitka spruce;
“Sw” means white spruce;
"Sx" means hybrid spruce or interior spruce;
"Sxs" means hybrid Sitka spruce;
“Sxw” means hybrid white spruce;
"Yc" means yellow cedar.

**Broadleaf Tree Species**

“Acb” means balsam poplar;
“Act” means black cottonwood;
“At” means trembling aspen;
“Dr” means red alder;
“Ep” means common paper birch;
“Mb” means bigleaf maple;
“Qg” means garry oak;
“Ra” means arbutus;

“Biogeoclimatic unit” or “BGC classification” means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.

“MIN or “Min” means minimum.

| Footnote # | Footnote |
|---|---|
| **1** | suitable on elevated microsites |
| **9** | suitable on warm aspects |
| **10** | suitable on cool aspects |
| **12** | suitable on cold air drainage sites |
| **13** | suitable at upper elevations |
| **14** | suitable at lower elevations |
| **16** | suitable in the southern portion of biogeoclimatic unit |
| **31** | must use of blister rust resistant stock. See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information. |
| **32** | limited by growing-season frosts |

| | |
|---|---|
| **34** | risk of snow damage |
| **51** | Retired July 2017 |
| | |
| | **Localized Footnotes** |
| **58** | **South Area** - Fd limited to a max 50% of preferred and acceptable well-spaced stems in the IDFmw and all subzones of the ICH due to root rot. See Root Rot Handbook (2017, in press) |
| **200** | Where there are no known forest health risks, Pl can be moved from acceptable to preferred if there is:<br>• > 50% Pl in the pre-harvest stand, then Pl can be moved to preferred;<br>• 25-50% Pl in the pre-harvest stand, then Pl can be moved to preferred with a maximum of 50% well-spaced stems;<br>For areas with less than 25% Pl in the pre-harvest stand, Pl remains acceptable. |
| **201** | Maximum 50% of preferred and acceptable well-spaced trees |
| **202** | In addition to the FG damage criteria, Bl advanced regeneration can be counted as well-spaced only where it meets the following criteria at free growing in even aged management:<br>• apical dominance > 1 (as measured by comparing ratio of leader height to length of most recent branch whorl) at free growing<br>• 75% live crown;<br>• ≥ 10 cm long leader; and<br>• no scars, forks, crooks, or sweeps, and;<br>• where it is < 1.5 m ht at time of harvest. |
| **203** | Recommended on sites for climate change adaptation |
| **204** | Not recommended due to climate change concerns |
| **208** | In addition to the FG damage criteria, Bl advanced regeneration can be counted as well-spaced only where it meets the following criteria at free growing in even aged management:<br>• apical dominance > 1 (as measured by comparing ratio of leader height to length of most recent branch whorl) at free growing<br>• 75% live crown;<br>• ≥ 10 cm long leader; and<br>• no scars, forks, crooks, or sweeps, and;<br>• where it is < 1.5 m ht at time of harvest. |
| | |
| | **Broadleaf Management Constraints** |
| **a** | productive, reliable, and feasible regeneration option |
| **b** | limited in productivity, reliability and/or feasibility |
| | |

## Appendix A-8 *FDU* #6 - Boundary - Stocking Standards

The FSP holder adopts the Selkirk District South Columbia 2018 default stocking standards (reproduced below) as they were at the time of submission.

**Comments specific to DSE South Columbia default standards**

1) Early Free Growing
   - Has been left in for information purposes only. In RESULTS it is in the Comments section only and does not preclude making FG declarations early.

2) MultiLayer / Single Tree Selection standards
   - In this document, only the corresponding Layer 4 information shows. *For the Layer 1-3 information see either RESULTS, or the table at the end of this workbook

3) Three red dots
   - Three red dots indicate that the ssid number "skips" and is nonsequential (both in this document and in RESULTS). However, there are no missing Stocking Standard ID's in between the two.

4) Even aged standards
   - use where even aged layer 4 will be the next crop and where Layers 1/2 combined are < 12m2/ha.
   - Multi-layer/single tree selection: use for uneven-aged systems where retention in Layers 1/2 combined is between 12-18m-22m*2 /ha. *18m2.ha for the drybelt, 22 m2/ha for the wetbelt.
   - Intermediate cut standards (not in this document, but are pending) For even aged management, where the combined Layer 1/2 overstory will be retained, use Intermediate cut standards (pending).

5) Criteria for Layer 4, Balsam fir advance regen is currently included in the "Baseline" ssids, and ssids with modified mitd, and in the multlayer/single tree selection standards. IGNORE them for the multilayer/single tree selection ssid. (they will be deleted as time permits).

Minimum inter-tree distance

Trees must be the greater than the approved minimum inter-tree distance apart in order to be well spaced:

| Minimum inter-tree distance (m) | Location/condition |
|---|---|
| 1.7 | Fill planting or planting on mechanically site prepared areas in the S Central Columbia Mountains |
| 2.0 | All other areas (except those areas where site factors or objectives require a different minimum inter-tree distance) |

Height of Trees Above Brush

In addition to being at least the required minimum height, trees must be greater than the approved minimum percentage height above brush in order to be free growing:

| % Ht above brush | Location/condition |
|---|---|
| 125% | BG ESSF IDF MH MS PP BGC zones |
| 150% | all other areas |

## Appendix A-9 *FDU* #6 – Boundary – Even-Aged Stocking Standards

DSE South Columbia Default Stocking Standards April 1, 2018

| BGC Classification | | | | | Regeneration Guide | | | | | | Free Growing Guide | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Species | | Stocking | | | Regen Delay (Max yrs) | Assessment | | | Min. Height | | |
| Zone/ Sz | Series | Regime name | SS ID | SS Name | Preferred (p) | Acceptable(a) | Target (well-spaced/ha) | Min pa (well-spaced/ha) | Min p (well-spaced/ha) | | Earliest (yrs) | Latest (yrs) | Brush % | Species | Ht (m) | MITD |
| The following stocking standards are for South (Central) Columbia per LMH 70 | | | | | | | | | | | | | | | | |
| **ESSF dc1** | 101 | ESSFdc1 101 mitd 2.0 | 1056919 | BlSe – Rhododendron – Valerian | Bl[201,500] Sx | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 101 | ESSFdc1 101 mitd 1.7 | 1056920 | BlSe – Rhododendron – Valerian | Bl[201,500] Sx | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 1.7 |
| | 101 | ESSFdc1 101 multilayer | 1056921 | BlSe – Rhododendron – Valerian | Bl[201,500] Sx | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| | 102 | ESSFdc1_102 | 1056922 | BlPl – Huckleberry | Sx Pl Pa[13,201] | Bl[500] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 102 | ESSFdc1 102 multlilayer | 1056923 | BlPl – Huckleberry | Sx Pl Pa[13,201] | Bl[500] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | | | 2.0 |
| | 103 | ESSFdc1_103 mitd 2.0 | 1056924 | BlPl – Falsebox – Grouseberry | Sx Pl Pa[13,201] | Bl[500] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 103 | ESSFdc1_103 mitd 1.7 | 1056925 *** | BlPl – Falsebox – Grouseberry | Sx Pl Pa[13,201] | Bl[500] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 1.7 |
| | 103 | ESSFdc1 103 multilayer | 1056928 | BlPl – Falsebox – Grouseberry | Sx Pl Pa[13,201] | Bl[500] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | | | 2.0 |
| | 104 | ESSFdc1_104 mitd 2.0 | 1056929 | Bl – Rhododendron – Grouseberry | Pl Sx | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 104 | ESSFdc1_104 mitd 1.7 | 1056930 | Bl – Rhododendron – Grouseberry | Pl Sx | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 1.7 |
| | 104 | ESSFdc1 104 multilayer | 1056931 | Bl – Rhododendron – Grouseberry | Pl Sx | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| | 110 | ESSFdc1_110 mitd 2.0 | 1056932 | BlSe – Rhododendron – Hellebore | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 110 | ESSFdc1_110 mitd 1.7 | 1056933 | BlSe – Rhododendron – Hellebore | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 110 | ESSFdc 110 multilayer | 1056934 | BlSe – Rhododendron – Hellebore | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 111 | ESSFdc1_111_mitd 2.0 | 1056935 | Bl – Valerian – Foamflower | Bl[32,500] Sx[32] | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 111 | ESSFdc1_111_mitd 1.7 | 1056936 | Bl – Valerian – Foamflower | Bl[32,500] Sx[32] | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 111 | ESSFdc1_111 multilayer | 1056937 | Bl – Valerian – Foamflower | Bl[32,500] Sx[32] | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 112 | ESSFdc1_112 | 1056938 | Se – Horsetail – Globeflower | Bl[1,32,500] Sx[1,32] | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | 112 | ESSFdc1 112 multilayer | 1056939 | Se – Horsetail – Globeflower | Bl[1,32,500] Sx[1,32] | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | | | | | | | | | | | | | | | | |
| **ESSF dcw** | 101 | ESSFdcw_101 mitd 2.0 | 1056940 | Bl – Valerian – Wood–rush | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 101 | ESSFdcw_101 mitd 1.7 | 1056941 | Bl – Valerian – Wood–rush | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 101 | ESSFdcw_101 multilayer | 1056942 | Bl – Valerian – Wood–rush | Bl[500] Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| | 102 | ESSFdcw_102 | 1056943 | BlPa – Grouseberry | Bl[500] Sx Pa[201] | Pl[34] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 102 | ESSFdcw 102 multilayer | 1056944 | BlPa – Grouseberry | Bl[500] Sx Pa[201] | Pl[34] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | | | 2.0 |
| | 103 | ESSFdcw_103 mitd 2.0 | 1056945 | Bl – Rhododendron – Grouseberry | Bl[500] Sx | Pa | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | All | 0.8 | 2.0 |
| | 103 | ESSFdcw_103 mitd 1.7 | 1056946 | Bl – Rhododendron – Grouseberry | Bl[500] Sx | Pa | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | All | 0.8 | 1.7 |
| | 103 | ESSFdcw_103 multilayer | 1056947 | Bl – Rhododendron – Grouseberry | Bl[500] Sx | Pa | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | | | 2.0 |
| | 110 | ESSFdcw_110 | 1056948 | Bl – Valerian – Hellebore – Globeflower | Bl[500] Sx | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | 110 | ESSFdcw 110 multilayer | 1056949 | Bl – Valerian – Hellebore – Globeflower | Bl[500] Sx | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | | | 2.0 |
| | | | | | | | | | | | | | | | | |
| **ESSF mh** | 101 | ESSFmh 101 mitd 2.0 | 1056950 | BlSe – Rhododendron – Foamflower | Cw[14,34,203] Bl[500] Lw[9,14,34] Sx | Pl[34] Hw[9,14] Fd[9,14] Pw[9,14,31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101 | ESSFmh 101 mitd 1.7 | 1056951 | BlSe – Rhododendron – Foamflower | Cw[14,34,203] Bl[500] Lw[9,14,34] Sx | Pl[34] Hw[9,14] Fd[9,14] Pw[9,14,31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| 101 | ESSFmh_101_mitd multilayer | 1056952 | BlSe – Rhododendron – Foamflower | Cw[14,34,203] Bl[500] Lw[9,14,34] Sx | Pl[34] Hw[9,14] Fd[9,14] Pw[9,14,31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| 102 | ESSFmh_102 | 1056953 | FdPl – Juniper – Falsebox | Fd[9] Lw[9] Pl | Sx Bl[500] Pa[13] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Lw, Pl<br>Fd<br>Others | 1.6<br>1.2<br>0.8 | 2.0 |
| 102 | ESSFmh 102 multilayer | 1056954 | FdPl – Juniper – Falsebox | Fd[9] Lw[9] Pl | Sx Bl[500] Pa[13] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | | | 2.0 |
| 103 | ESSFmh 103 mitd 2.0 | 1056955 | BlFd – Huckleberry – Falsebox | Fd Lw Pl[34] Sx | Cw Bl[500] Pw[14,31] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| 103 | ESSFmh 103 mitd 1.7 | 1056956 | BlFd – Huckleberry – Falsebox | Fd Lw Pl[34] Sx | Cw Bl[500] Pw[14,31] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| 103 | ESSFmh_103 multilayer | 1056957 | BlFd – Huckleberry – Falsebox | Fd Lw Pl[34] Sx | Cw Bl[500] Pw[14,31] | 1200 | 700 | 600 | 7 | 15 | 20 | 125 | | | 2.0 |
| 104 | ESSFmh_104_mitd 2.0 | 1056958 | BlPl – Falsebox – Grouseberry | Sx Pl[34] | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 2.0<br>1.0 | 2.0 |
| 104 | ESSFmh_104_mitd 1.7 | 1056959 | BlPl – Falsebox – Grouseberry | Sx Pl[34] | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 2.0<br>1.0 | 1.7 |
| 104 | ESSFmh_104 multi-layer | 1056960 | BlPl – Falsebox – Grouseberry | Sx Pl[34] | Bl[500] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| 105 | ESSFmh_105_mitd 2.0 | 1056961 | BlCwLw – Queen's cup | Fd[9] Lw[9] Pl[34] Sx | Cw[9] Bl[500] Pw[31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| 105 | ESSFmh105_mitd 1.7 | 1056962 | BlCwLw – Queen's cup | Fd[9] Lw[9] Pl[34] Sx | Cw[9] Bl[500] Pw[31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw, Pw, Pl<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| 105 | ESSFmh105 multilayer | 1056963 | BlCwLw – Queen's cup | Fd[9] Lw[9] Pl[34] Sx | Cw[9] Bl[500] Pw[31] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| 110 | ESSFmh_110_mitd 2.0 | 1056964 | Bl – Rhododendron – Oak fern | Bl[500] Sx | Hw[14,32] Cw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 1.0 | 2.0 |
| 110 | ESSFmh_110_mitd 1.7 | 1056965 | Bl – Rhododendron – Oak fern | Bl[500] Sx | Hw[14,32] Cw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 1.0 | 1.7 |
| 110 | ESSFmh_110 multilayer | 1056966 | Bl – Rhododendron – Oak fern | Bl[500] Sx | Hw[14,32] Cw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 111 | ESSFmh_111_mitd 2.0 | 1056967 | BlSe – Lady fern – Oak fern | Bl[500] Sx | Cw[14,32] Hw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 1.0 | 2.0 |
| | 111 | ESSFmh_111_mitd 1.7 | 1056968 | BlSe – Lady fern – Oak fern | Bl[500] Sx | Cw[14,32] Hw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 1.0 | 1.7 |
| | 111 | ESSFmh_111 multilayer | 1056969 | BlSe – Lady fern – Oak fern | Bl[500] Sx | Cw[14,32] Hw[14,32] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | | | 2.0 |
| | 112 | ESSFmh112 | 1056970 | SeBl – Horsetail – Arrow–leaved groundsel | Bl[1,32,500] Sx[1,32] | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 112 | ESSFmh_112 multilayer | 1056971 | SeBl – Horsetail – Arrow–leaved groundsel | Bl[1,32,500] Sx[1,32] | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | | | 2.0 |
| **ICH mw5** | 101 | ICHmw5_101_mitd 2.0 | 1057585 | HwCw – Falsebox | Cw Fd[58] Hw[201] Lw Pw[31] Sx[10,13] | Bg[14,16] Pl | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 101 | ICHmw5_101_mitd_1.7 | 1057586 | HwCw – Falsebox | Cw Fd[58] Hw[201] Lw Pw[31] Sx[10,13] | Bg[14,16] Pl | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| | 101 | ICHmw5_101 multilayer | 1057587 | HwCw – Falsebox | Cw Fd[58] Hw[201] Lw Pw[31] Sx[10,13] | Bg[14,16] Pl | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | | | 2.0 |
| | 102 | ICHmw5_102 | 1057588 | FdPl – Juniper – Kinnikinnick | Fd Pl | Py[9,14,16,203] Lw | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | Lw, Pl, Py<br>Fd<br>Others | 1.4<br>1.0<br>0.8 | 2.0 |
| | 102 | ICHmw5_102_multilayer | 1057589 | FdPl – Juniper – Kinnikinnick | Fd Pl | Py[9,14,16,203] Lw | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | | | 2.0 |
| | 103 | ICHmw5_103 | 1057590 | Fd – Douglas maple – Falsebox | Fd Lw | Pl Pw[31] Py[9,14,16,203] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 103 | ICHmw5_103 multilayer | 1057591 | Fd – Douglas maple – Falsebox | Fd Lw | Pl Pw[31] Py[9,14,16,203] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | | | 2.0 |
| | 103 | ICHmw5_103_Pl200 | 1057592 | Fd – Douglas maple – Falsebox | Fd Lw Pl[200] | Pw[31] Py[9,14,16,203] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 103 | ICHmw5_103_Pl200 multilayer | 1057593 | Fd – Douglas maple – Falsebox | Fd Lw Pl[200] | Pw[31] Py[9,14,16,203] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | | | 2.0 |
| | 104 | ICHmw5_104 mitd 2.0 | 1057594 | FdCw – Falsebox – Prince's pine | Fd[58] Lw Pw[31] Cw[201] | Bg[14,16] Hw Pl Py[9,14,16] Sx[10,13] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 104 | ICHmw5_104_mitd 1.7 | 1057595 | FdCw – Falsebox – Prince's pine | Fd[58] Lw Pw[31] Cw[201] | Bg[14,16] Hw Pl Py[9,14,16] Sx[10,13] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 104 | ICHmw5_104 multilayer | 1057596 | FdCw – Falsebox – Prince's pine | Fd$^{58}$ Lw Pw$^{31}$ Cw$^{201}$ | Bg$^{14,16}$ Hw Pl Py$^{9,14,16}$ Sx$^{10,13}$ | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | | | 2.0 |
| | 104 | ICHmw5_104_Pl200 mitd_2.0 | 1057597 | FdCw – Falsebox – Prince's pine | Fd$^{58}$ Lw Pw$^{31}$ Cw$^{201}$ Pl$^{200}$ | Bg$^{14,16}$ Hw Py$^{9,14,16}$ Sx$^{10,13}$ | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 104 | ICHmw5_104_Pl200 mitd_1.7 | 1057598 | FdCw – Falsebox – Prince's pine | Fd$^{58}$ Lw Pw$^{31}$ Cw$^{201}$ Pl$^{200}$ | Bg$^{14,16}$ Hw Py$^{9,14,16}$ Sx$^{10,13}$ | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Lw, Pl, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| | 104 | ICHmw5_104_Pl200 multilayer | 1057599 | FdCw – Falsebox – Prince's pine | Fd$^{58}$ Lw Pw$^{31}$ Cw$^{201}$ Pl$^{200}$ | Bg$^{14,16}$ Hw Py$^{9,14,16}$ Sx$^{10,13}$ | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | | | 2.0 |
| | 110 | ICHmw5_110_mitd 2.0 | 1057600 | CwHw – Oak fern | Cw Hw Fd$^{1,14,32,58}$ Lw$^{1,14,32}$ Sx | Bl$^{500}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 110 | ICHmw5_110_mitd_1.7 | 1057601 | CwHw – Oak fern | Cw Hw Fd$^{1,14,32,58}$ Lw$^{1,14,32}$ Sx | Bl$^{500}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| | 110 | ICHmw5_110 multilayer | 1057602 | CwHw – Oak fern | Cw Hw Fd$^{1,14,32,58}$ Lw$^{1,14,32}$ Sx | Bl$^{500}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | | | 2.0 |
| | 111 | ICHmw5_111_mitd 2.0 | 1057603 | CwHw – Devil's club – Lady fern | Cw$^{32}$ Sx | Bl$^{500}$ Fd$^{1,32}$ Hw$^{32}$ Lw$^{1,32}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 111 | ICHmw5_111_mitd 1.7 | 1057604 | CwHw – Devil's club – Lady fern | Cw$^{32}$ Sx | Bl$^{500}$ Fd$^{1,32}$ Hw$^{32}$ Lw$^{1,32}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Lw, Pw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| | 111 | ICHmw5_111 multilayer | 1057605 | CwHw – Devil's club – Lady fern | Cw$^{32}$ Sx | Bl$^{500}$ Fd$^{1,32}$ Hw$^{32}$ Lw$^{1,32}$ Pw$^{31}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | | | 2.0 |
| | 112 | ICHmw5_112_mitd 2.0 | 1057606 | Sxw(Hw) – Huckleberry – Oak fern | Bl$^{1,500}$ Sx$^{1}$ | Hw$^{1,32}$ Cw$^{1,32}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | All | 1.0 | 2.0 |
| | 112 | ICHmw5_112_mitd 1.7 | 1057607 | Sxw(Hw) – Huckleberry – Oak fern | Bl$^{1,500}$ Sx$^{1}$ | Hw$^{1,32}$ Cw$^{1,32}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | All | 1.0 | 1.7 |
| | 112 | ICHmw5_112 _mitd multilayer | 1057608 | Sxw(Hw) – Huckleberry – Oak fern | Bl$^{1,500}$ Sx$^{1}$ | Hw$^{1,32}$ Cw$^{1,32}$ | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | | | 2.0 |
| | 113 | ICHmw5_113 | 1057609 | CwSxw – Skunk cabbage | Cw$^{1,32}$ Sx$^{1}$ | Bl$^{1,500}$ Hw$^{1,32}$ | 1000 | 500 | 400 | 4 | 9 | 20 | 150 | All | 0.8 | 2.0 |
| | 113 | ICHmw5_113 multilayer | 1057610 | CwSxw – Skunk cabbage | Cw$^{1,32}$ Sx$^{1}$ | Bl$^{1,500}$ Hw$^{1,32}$ | 1000 | 500 | 400 | 4 | 9 | 20 | 150 | | | 2.0 |
| | | | | | | | | | | | | | | | | |
| The following standards are from the 'old' BEC (not in LHM 70). SS revised by Deb M. & Mike R. March 2018 | | | | | | | | | | | | | | | | |
| **ESSF dc2** | 01 | ESSFdc2_01_mitd 2.0 | 1057877 | Bl- Rhododendron - Grouseberry | Bl$^{201\ 500}$ Sx | Pl $^{200}$ | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | ESSFdc2_01_mitd 1.7 | 1057878 | Bl- Rhododendron - Grouseberry | Bl[201 500] Sx | Pl [200] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 1.7 |
| | 01 | ESSFdc2_01 multilayer | 1057879 | Bl- Rhododendron - Grouseberry | Bl[201 500] Sx | Pl [200] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 02* | ESSFdc2_02 non-forested | 1057880 | Juniper - Pinegrass | Pl Pa[201] | Fd[14 32] Bl [28,500] Sx[28] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 03 | ESSFdc2_03 | 1057881 | PlSe - Falsebox Pinegrass | Pl Sx[28] Fd[14, 32] | Bl[500] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 03 | ESSFdc2_03 multilayer | 1057882 | PlSe - Falsebox Pinegrass | Pl Sx[28] Fd[14, 32] | Bl[500] | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 04 | ESSFdc2_04 | 1057883 | Bl - Grouseberry - Cladonia | Pl Sx Bl [201, 500] | | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 04 | ESSFdc2_04 multilayer | 1057884 | Bl - Grouseberry - Cladonia | Pl Sx Bl [201, 500] | | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 05 | ESSFdc2_05 | 1057885 | Bl - Huckleberry - Feathermoss | Pl Sx Bl [201, 500] | | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 05 | ESSFdc2_05 multilayer | 1057886 | Bl - Huckleberry - Feathermoss | Pl Sx Bl [201, 500] | | 1000 | 500 | 400 | 7 | 15 | 20 | 125 | Pl<br>Others | 1.2<br>0.6 | 2.0 |
| | 06 | ESSFdc2_06_mitd 2.0 | 1057887 | Bl - Gooseberry - Oak fern | Sx Bl[201, 500] | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 06 | ESSFdc2_06_mitd 1.7 | 1057888 | Bl - Gooseberry - Oak fern | Sx Bl[201, 500] | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 1.7 |
| | 06 | ESSFdc2_06 multilayer | 1057889 | Bl - Gooseberry - Oak fern | Sx Bl[201, 500] | Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Pl<br>Others | 1.6<br>0.8 | 2.0 |
| | 07 | ESSFdc2_07_mitd 2.0 | 1057890 | Bl - Rhododendron - Valerian | Sx[32] Bl [201, 500] | Pl [200] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 07 | ESSFdc2_07_mitd 1.7 | 1057891 | Bl - Rhododendron - Valerian | Sx[32] Bl [201, 500] | Pl [200] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 07 | ESSFdc2_07 multilayer | 1057892 | Bl - Rhododendron - Valerian | Sx[32] Bl [201, 500] | Pl [200] | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 08 | ESSFdc2_08 | 1057893 | Bl - Trapper's tea | Sx[1,32] Bl[1, 500] | | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 1.2 | 2.0 |
| | | | | | | | | | | | | | | | | |
| **ICH mk1** | 01 | ICHmk1_01_mitd_2.0 | 1057920 | | Cw Fd[32 58] Lw [32] Sx[201] | Bl[204, 500] Pl[200] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 01 | ICHmk1_01_mitd_1.7 | 1057921 | | Cw Fd[32 58] Lw [32] Sx[201] | Bl[204, 500] Pl[200] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 1.7 |
| | 01 | ICHmk1_01 multilayer | 1057922 | | Cw Fd[32 58] Lw [32] Sx[201] | Bl[204, 500] Pl[200] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw<br>Fd<br>Others | 2.0<br>1.4<br>1.0 | 2.0 |
| | 02 | ICHmk1_02 rock outcrop | 1057923 | | Fd Pl | Py[9,14,203] | 800 | 400 | 400 | 7 | 12 | 20 | 150 | Pl, Py<br>Fd | 1.4<br>1.0 | 2.0 |
| | 03 | ICHmk1_03 | 1057924 | | Fd Lw | Pl[200] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Fd | 1.0 | |
| | | | | | | | | | | | | | | Others | 0.8 | |
| | 03 | ICHmk1_03 multilayer | 1057925 | | Fd Lw | Pl[200] | 1000 | 500 | 400 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.0 | |
| | | | | | | | | | | | | | | Others | 0.8 | |
| | 04 | ICHmk1_04_mitd_2.0 | 1057926 | | Fd[58] Pl[201] Lw | Cw[28] Sx[13,28,204] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 04 | ICHmk1_04_mitd_1.7 | 1057927 | | Fd[58] Pl[201] Lw | Cw[28] Sx[13,28,204] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 1.7 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 04 | ICHmk1_04 multilayer | 1057928 | | Fd[58] Pl[201] Lw | Cw[28] Sx[13,28,204] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 05 | ICHmk1_05_mitd_2.0 | 1057929 | | Sx Cw Fd [32 58] Lw [32] | Pl Bl[201, 500] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 05 | ICHmk1_05_mitd_1.7 | 1057930 | | Sx Cw Fd [32 58] Lw [32] | Pl Bl[201, 500] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 1.7 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 05 | ICHmk1_05 multilayer | 1057931 | | Sx Cw Fd [32 58] Lw [32] | Pl Bl[201, 500] | 1200 | 700 | 600 | 7 | 12 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 06 | ICHmk1_06_mitd_2.0 | 1057932 | | Sx Cw Fd[32,58] Bl[201, 500] | Pl Lw[1, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 06 | ICHmk1_06_mitd_1.7 | 1057933 | | Sx Cw Fd[32,58] Bl[201, 500] | Pl Lw[1, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Pl, Lw | 2.0 | 1.7 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 06 | ICHmk1_06 multilayer | 1057934 | | Sx Cw Fd[32,58] Bl[201, 500] | Pl Lw[1, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 150 | Pl, Lw | 2.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 1.4 | |
| | | | | | | | | | | | | | | Others | 1.0 | |
| | 07 | ICHmk1_07 | 1057935 | | Bl[1,201, 500] Sx[1] Cw[1, 32] | Pl[1] | 1000 | 500 | 400 | 4 | 9 | 20 | 150 | Pl | 1.4 | 2.0 |
| | | | | | | | | | | | | | | Others | 0.8 | |
| | | | | | | | | | | | | | | | | |
| **IDF dm1** | 01 | IDFdm1_01 | 1057936 | | Fd[32] Lw[32] | Pl Py[9,14] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Pl,Lw | 1.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 0.8 | |
| | | | | | | | | | | | | | | Others | 0.6 | |
| | 01 | IDFdm1_01 multilayer | 1057937 | | Fd[32] Lw[32] | Pl Py[9,14] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Pl,Lw | 1.0 | 2.0 |
| | | | | | | | | | | | | | | Fd | 0.8 | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Others | 0.6 | |
| | 03 | IDFdm1_03 | 1057938 | | Fd[27] Py | Pl[204] | 800 | 400 | 400 | 7 | 12 | 20 | 125 | Pl<br>Fd<br>Py | 1.0<br>0.8<br>0.6 | 2.0 |
| | 03 | IDFdm1_03 multilayer | 1057939 | | Fd[27] Py | Pl[204] | 800 | 400 | 400 | 7 | 12 | 20 | 125 | Pl<br>Fd<br>Py | 1.0<br>0.8<br>0.6 | 2.0 |
| | 04 | IDFdm1_04 | 1057940 | | Fd[32] Lw[32] Py[9,14] | Pl[28] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Fd<br>Others | 0.8<br>0.6 | 2.0 |
| | 04 | IDFdm1_04 multilayer | 1057941 | | Fd[32] Lw[32] Py[9,14] | Pl[28] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Fd<br>Others | 0.8<br>0.6 | 2.0 |
| | 05 | IDFdm1_05_mitd_2.0 | 1057942 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 05 | IDFdm1_05_mitd_1.7 | 1057943 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 05 | IDFdm1_05 multilayer | 1057944 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 06 | IDFdm1_06_mitd_2.0 | 1057945 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 06 | IDFdm1_06_mitd_1.7 | 1057946 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 1.7 |
| | 06 | IDFdm1_06 multilayer | 1057947 | | Fd[32] Lw[32] Sx | Cw[32] Pl | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | 07 | IDFdm1_07 | 1057948 | | Sx[1] | Cw[1,14,32] Pl[1] | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | All | 0.8 | 2.0 |
| | | | | | | | | | | | | | | | | |
| **IDF xh4** | 01 | IDFxh4_01 | 1057949 | | Fd Lw | Py | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 01 | IDFxh4_01_multilayer | 1057950 | | Fd Lw | Py | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 02 | IDFxh4_02 | 1057951 | | Py[27] Fd[27] | | 800 | 400 | 400 | 7 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | 02 | IDFxh4_02_multilayer | 1057952 | | Py[27] Fd[27] | | 800 | 400 | 400 | 7 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | 03 | IDFxh4_03_mitd_2.0 | 1057953 | | Fd Lw | Sx Pl[12] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 03 | IDFxh4_03_mitd_1.7 | 1057954 | | Fd Lw | Sx Pl[12] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 1.7 |
| | 03 | IDFxh4_03_multilayer | 1057955 | | Fd Lw | Sx Pl[12] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 04 | IDFxh4_04_mitd_2.0 | 1057956 | | Fd[1,32]Lw[1,32]Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 04 | IDFxh4_04_mitd_1.7 | 1057957 | | Fd[1,32]Lw[1,32]Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 1.7 |
| | 04 | IDFxh4_04_multilayer | 1057958 | | Fd[1,32]Lw[1,32]Sx | | 1200 | 700 | 600 | 4 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 05 | IDFxh4_05 | 1057959 | | Sx | Fd[1,32]Lw[1,32] | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 05 | IDFxh4_05_multilayer | 1057960 | | Sx | Fd[1,32]Lw[1,32] | 1000 | 500 | 400 | 4 | 12 | 20 | 125 | Lw<br>Others | 1.0<br>0.6 | 2.0 |
| | 06 | IDFxh4_06 | 1057961 | | Act At | Cw[1,32]Sx[1,32] | 400 | 200 | 200 | 4 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | 06 | IDFxh4_06_multilayer | 1057962 | | Act At | Cw[1,32]Sx[1,32] | 400 | 200 | 200 | 4 | 12 | 20 | 125 | All | 0.6 | 2.0 |
| | | | | | | | | | | | | | | | | |
| **MS dm1** | 01 | MSdm1_01_mitd_2.0 | 1057963 | | Lw[14,32] Sx Fd[14,32] | Bl[500] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pl,Lw<br>Others | 1.4<br>0.8 | 2.0 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MSdm1_01_mitd_1.7 | 1057964 | | Lw[14,32] Sx Fd[14,32] | Bl[500] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pl,Lw<br>Others | 1.4<br>0.8 | 1.7 |
| 01 | MSdm1_01_multilayer | 1057965 | | Lw[14,32] Sx Fd[14,32] | Bl[500] Pl | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pl,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 02 | MSdm1_02 | 1057966 | | Fd Lw Pl[201] | Py[9,14,16,203] | 800 | 400 | 400 | 7 | 12 | 20 | 125 | Pl,Lw<br>Others | 1.0<br>0.6 | 2.0 |
| 02 | MSdm1_02 multilayer | 1057967 | | Fd Lw Pl[201] | Py[9,14,16,203] | 800 | 400 | 400 | 7 | 12 | 20 | 125 | Pl,Lw<br>Others | 1.0<br>0.6 | 2.0 |
| 03 | MSdm1_03 | 1057968 | | Fd[32] Lw[32] Pl[201] | Sx[28] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Pli,Lw<br>Others | 1.0<br>0.6 | 2.0 |
| 03 | MSdm1_03 multilayer | 1057969 | | Fd[32] Lw[32] Pl[201] | Sx[28] | 1000 | 500 | 400 | 7 | 12 | 20 | 125 | Pli,Lw<br>Others | 1.0<br>0.6 | 2.0 |
| 04 | MSdm1_04_mitd_2.0 | 1057970 | | Fd Lw Pl[201] | Sx[28] Py[9,14,16,203] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 04 | MSdm1_04_mitd_1.7 | 1057971 | | Fd Lw Pl[201] | Sx[28] Py[9,14,16,203] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 1.7 |
| 04 | MSdm1_04 multilayer | 1057972 | | Fd Lw Pl[201] | Sx[28] Py[9,14,16,203] | 1200 | 700 | 600 | 7 | 12 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 05 | MSdm1_05_mitd_2.0 | 1057973 | | Pl Sx | Bl[500] Lw[14, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 05 | MSdm1_05 mitd 1.7 | 1057974 | | Pl Sx | Bl[500] Lw[14, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 1.7 |
| 05 | MSdm1_05 multilayer | 1057975 | | Pl Sx | Bl[500] Lw[14, 32] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 06 | MSdm1_06_mitd_2.0 | 1057976 | | Sx Bl[201, 500] | Cw[32] Fd[14 32] Lw[14, 32] Pl[200] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 06 | MSdm1_06_mitd_1.7 | 1057977 | | Sx Bl[201, 500] | Cw[32] Fd[14 32] Lw[14, 32] Pl[200] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 1.7 |
| 06 | MSdm1_06 multilayer | 1057978 | | Sx Bl[201, 500] | Cw[32] Fd[14 32] Lw[14, 32] Pl[200] | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |
| 07 | MSdm1_07 | 1057979 | | Sx[1] Bl[1, 201, 500] | Pl[1] | 1000 | 500 | 400 | 4 | 9 | 20 | 125 | Pl<br>Others | 1.0<br>0.6 | 2.0 |
| 08 | MSdm1_08 | 1057980 | | Bl[1, 201, 500] Sx | Pl1 | 1200 | 700 | 600 | 4 | 9 | 20 | 125 | Pli,Lw<br>Others | 1.4<br>0.8 | 2.0 |

## Appendix A-10 *FDU* #6 – Boundary - Uneven-aged Stocking Standards* -- Single-tree selection only

| Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Target from Table A standards** | **Layer**** | **Stocking***** | | | | **Target from Table A standards** | **Layer**** | **Stocking***** | | |
| | | Target pa | MIN pa | MIN p | | | | Target pa | MIN pa | MIN p |
| (stems/ha) | | (well-spaced/ha) | | | | (stems/ha) | | (well-spaced/ha) | | |
| **1200** | 1 | 600 | 300 | 250 | | **800** | 1 | 300 | 150 | 150 |
| | 2 | 800 | 400 | 300 | | | 2 | 400 | 200 | 200 |
| | 3 | 1000 | 500 | 400 | | | 3 | 600 | 300 | 300 |
| | 4 | 1200 | 700 | 600 | | | 4 | 800 | 400 | 400 |
| **1000** | 1 | 400 | 200 | 200 | | **600** | 1 | 300 | 150 | 150 |
| | 2 | 600 | 300 | 250 | | | 2 | 400 | 200 | 200 |
| | 3 | 800 | 400 | 300 | | | 3 | 500 | 300 | 300 |
| | 4 | 1000 | 500 | 400 | | | 4 | 600 | 400 | 400 |
| **900** | 1 | 400 | 200 | 200 | | **400** | 1 | 200 | 100 | 100 |
| | 2 | 500 | 300 | 250 | | | 2 | 300 | 125 | 125 |
| | 3 | 700 | 400 | 300 | | | 3 | 300 | 150 | 150 |
| | 4 | 900 | 500 | 400 | | | 4 | 400 | 200 | 200 |

MIN - minimum

Note that Early Free Growing shows up in this document, for each SSID, for information purposes only. In RESULTS, the EFG date has been inserted as information only, and EFG has been removed.

The following is historical background only: "* Maximum regeneration delay is seven years. For a seven-year regeneration delay, the early free growing is 12 years and the late free growing is 15 years."

Regeneration delay can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets minimum stocking standards. If regeneration is achieved immediately following harvest, earliest free growing date is 12 months after completion of harvest and the latest date is 24 months after completion of harvest.

****Stand Layer Definition***

| | | |
|---|---|---|
| Layer 1 | Mature | trees >= 12.5 cm dbh |
| Layer 2 | Pole | trees 7.5 cm to 12.4 cm dbh |
| Layer 3 | Sapling | trees >= 1.3 m height to 7.4 cm dbh |
| Layer 4 | Regeneration | trees < 1.3 m height |

*** pa - preferred and acceptable species p - preferred species

## Appendix A-11 *FDU* #6 - Boundary – Stocking Standards Footnotes

### Provincial and localized to DSE Footnotes

| | Footnote # | Footnote | Footnote # | Footnote |
|---|---|---|---|---|
| **Conifer Tree Species** | 1 | suitable on elevated microsites | 46 | use resistant seedlot south of the Dean Channel |
| "Ba" means amabilis fir; | 2 | retired July 2017 | 47 | risk of balsam wooly adelgid within quarantine area see http://www2.gov.bc.ca/gov/content/industry/agriculture-seafood/animals-and-crops/plant-health/insects-and-plant-diseases/nursery-and-ornamentals/balsam-woolly-adelgid |
| "Bg" means grand fir; | 3 | suitable on coarse-textured soils | 48 | risk of browsing by deer |
| "Bl" means subalpine fir; | 4 | suitablemedium-textured soils | 49 | retired November 2010 |
| "Bp" means noble fir; | 5 | footnote retired | 50 | restricted to sites where the species occurs as a |
| "Cw" means western red cedar; | 6 | suitable on nutrient-very-poor sites | | major species in a pre-harvest, natural stand |
| "Fd" means Douglas-fir; | 7 | suitable on nutrient-medium sites | 51 | retired July 2017 |
| "Hm" means mountain hemlock; | 8 | suitable on steep slopes | 52 | suitable on sheltered microsites with deep soil |
| "Hw" means western hemlock; | 9 | suitable on warm aspects | 53 | minor component |
| "Lt" means tamarack; | 10 | suitable on cool aspects | 54 | retired July 2017 |
| "Lw" means western larch; | 11 | suitable on crest slope positions | 55 | retired July 2017 |
| "Pa" means whitebark pine; | 12 | suitable on cold air drainage sites | | |
| "Pl" means lodgepole pine; | 13 | suitable at upper elevations | # | **Broadleaf Management Constraints** |
| "Pw" means white pine; | 14 | suitable at lower elevations | | |
| "Py" means ponderosa pine; | 15 | suitable in the northern portion of biogeoclimatic unit | a | productive, reliable, and feasible regeneration option |
| "Sb" means black spruce; | 16 | suitable in the southern portion of biogeoclimatic unit | b | limited in productivity, reliability and/or feasibility |
| "Se" means Engelmann spruce; | 17 | suitable in the western portion of biogeoclimatic unit | | |
| "Ss" means Sitka spruce; | 18 | suitable in the eastern portion of biogeoclimatic unit | | |
| "Sw" means white spruce; | 19 | retired July 2017 | # | **Localized Footnotes** |
| "Sx" means hybrid spruce or interior spruce; | 20 | retired July 2017 | | |
| "Sxs" means hybrid Sitka spruce; | 21 | retired July 2017 | 56 | retired July 2017 |
| "Sxw" means hybrid white spruce; | 22 | suitable in the southern Gardner Canal-Kitlope area | | |
| "Yc" means yellow cedar. | 23 | retired July 2017 | 57 | retired November 2010 |
| **Broadleaf Tree Species** | 24 | suitable in wetter portion of biogeoclimatic unit | 58 | **South Area** - Fd limited to a max 50% of preferred and acceptable well-spaced stems in the IDFmw and all subzones of the ICH due to root rot. See Root Rot Handbook (2017, in press) |
| "Acb" means balsam poplar; | 25 | retired July 2017 | 59 | **Prince George region** - max 1,400 total sph of aspen and cottonwood. |
| "Act" means black cottonwood; | 26 | suitable minor species on nutrient poor sites | | Treat as 'ghost' trees in surveys. |
| "At" means trembling aspen; | 27 | partial high-canopy shade required for successful establishment | 60 | retired July 2017 |
| "Dr" means red alder; | 28 | limited by moisture deficit | 61 | retired July 2017 |
| "Ep" means common paper birch; | 29 | risk of heavy browsing by moose | 62 | retired November 2010 |
| "Mb" means bigleaf maple; | 30 | retired November 2010 | 63 | retired July 2017 |

| | | | | |
|---|---|---|---|---|
| "Qg" means garry oak; | 31 | must use of blister rust resistant stock. See BC Journal of Ecosystems and Management 10(1): 97-100 for supplementary information. | 66 | Mackenzie forest district - may be preferred where risk of snow damage is low or risk of frost damage is excessive on spruce |
| "Ra" means arbutus; | 32 | limited by growing-season frosts | 67 | Retired July 2017 |
| | 33 | footnote retired and replaced with footnote 'a' | 68 | Retired July 2017 |
| | 34 | risk of snow damage | 69 | suitable at upper elevations of the biogeoclimatic unit only when used in the southern portion of the biogeoclimatic unit |
| **"Biogeoclimatic unit" or "BGC classification"** means the zone, subzone, variant and site series described in the most recent field guide published by the Ministry of Forests for the identiication and interpretation of ecosystems, as applicable to a harvested area. | 35 | use resistant stock to mitigate risk of spruce weevil damage - See Ss Weevil Decision Tool: http://pubs.cif-ifc.org/doi/abs/10.5558/tfc2013-042 | 70 | retired July 2017 |
| | 36 | retired July 2017 | 200 | substitute for below… |
| "**MIN** or "**Min**" means minimum. | 37 | retired November 2010 | 201 | Maximum 50% of preferred and acceptable well-spaced trees |
| | 38 | footnote retired | ~~202~~ | ~~No advance regeneration in even aged stand management~~ |
| | 39 | retired July 2017 | 203 | Recommended on sites for climate change adaptation |
| | 40 | risk of redheart damage in areas subject to cold winter outflow winds | 204 | Not recommended due to climate change concerns |
| | 41 | limited by poorly drained soils | 205 | limited by cold temperatures |
| | 42 | suitable on sites with a fresh soil moisture regimes | 206 | plant on exposed mineral soils |
| | 43 | retired July 2017 | 207 | obstacle planting recommended |
| | 44 | suitable in areas of the subzone variant with relatively strong maritime influence | 208 | No advance regeneration in even aged stand management |
| | 45 | suitable in areas of the subzone variant with relatively strong continental influence | 500 | DSE: Advance Bl regen: <1.5 m tall at time of harvest, >75% live crown, >10cm leader, no scars, forks, crooks, or sweeps, and Apical dominance >1 as measured by comparing ratio of leader height to length of most recent branch. |
| | | | 200 | Pl can be moved from Acceptable to Preferred to the extent specified below only on sites where there is a low risk of damage from forest health factors: |
| | | | | o > 50% Pl in the pre-harvest stand, Pl can be moved to preferred; |
| | | | | o 25-50% Pl in the pre-harvest stand, Pl can be moved to preferred to a maximum of 50% well-spaced stems. |
| | | | | For areas with less than 25% Pl in the pre-harvest stand or where risk of damage from forest health factors is moderate or high, Pl remains acceptable. |
| | | | | MITD: For site series that do not already have reduced MSS, a reduced mitd of 1.7 may be used to facilitate planting superior microsites, when sites have: mechanical site preparation (mounding & disk trenching), been previously fill planted, conditions where obstacle planting for snow creep is necessary. Reduced MITD applies to PLANTED TREES ONLY. |

## Appendix B – Legal Objectives for Interpretive Forest Sites, Recreation Sites or Recreation Trails

Following are the legally established objectives for Interpretive Forest Sites, Recreation Sites and Recreation Trails that were legally designated under *FPC.* The site and trail legal designations are continued under *FRPA* Section 180, and the legal objectives for these sites and trail are continued under *FRPA* Section 181.

### *FDU* #1- Kamloops Recreation Sites and Trails

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Allan Creek Recreation Trail | 4521 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for semi-primitive motorized and modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the alpine/high sub-alpine and small lake features. Recreation Activity Objectives: To provide opportunities for snowmobiling activities during winter season and hiking, scenic viewing and hunting (during the regulated season) during the remainder of the year. Public Recreation Objectives: Winter snowmobile trail head access is via a maintained public highway. |
| Boundary Lake Recreation Site | 1993 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objective: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Chappel Recreation Trail | 4555 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for semi-primitive motorized and modified *road*ed recreation experiences. Recreation feature objective: To protect the small / mid lake and fisheries experience. Recreation activity objective: To provide opportunities for snowmobiling activities during winter season and hiking, scenic viewing and hunting. Public recreation objective: To maintain summer access to trailhead and winter access via maintained public highway. |
| Clemina Creek Recreation Trail | 4703 | 1997/03/10 Recreation Experience Objectives: To provide opportunities for semi-primitive motorized and modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the alpine/high sub-alpine, wetland vegetation and small lake features. Recreation Activity Objectives: To provide opportunities for snowmobiling activities during the winter season and hiking, scenic viewing and hunting (during the regulated season) during the remainder of the year. Public Recreation Access Objectives: Winter snowmobile trail head access is via a maintained public highway. Summer access is provided by Forest Service *road* (suitable for 4 wheel drive vehicles) to various points along the trail system beginning at approximately 3 km from the highway. |
| Coldscaur Lake North Recreation Site | 1512 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Coldscaur Lake South Recreation Site | 1520 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, rock arch, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing, boating, scenic viewing and nature study/appreciation activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Dennis Lake Recreation Site | 4506 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for sport fishing, boating, canoeing, summer camping and scenic viewing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Double Lakes Recreation Site | 1908 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lakes, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Access Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| East Maury Lake Recreation Site | 1997 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Ejas Lake Recreation Site | 1514 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Fowler Lake Recreation Site | 1816 | 1997/03/10 Recreation experience objectives: To provide opportunities for natural *road*ed recreation experiences. Recreation feature objectives: To protect the small lake, fish and regenerating stand features. Recreation activity objectives: To provide opportunities for sport fishing, and canoeing and potential for future summer camping activities. Public recreation access objectives: To maintain summer, 2 wheel drive, forest *road* access to the vicinity of the site while managing the lake as a walk-in access. |
| Gannet Lake Recreation Site | 4503 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, fishing, canoeing and boating activities. Public Recreation Objective: To maintain summer, 2 wheel drive, Forest Service *Road* and spur *road* access to the site. |
| Gordon Bay Recreation Site | 4502 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fine textured beach, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, beach activities, swimming/bathing, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* access to the site |
| Graffunder Lakes North Recreation Site | 1509 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Access Objective: To maintain summer, 2 wheel drive, Forest Service *Road* and spur *road* access to the site. |
| Grizzle Lake East Recreation Site | 4570 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish, developed and cabin features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing, and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Honeymoon Bay Recreation Site | 4610 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fine textures beach, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, beach activities, swimming/bathing, sport fishing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* and 4 wheel drive spur *road* access to the site. |
| Italia Lake Recreation Site | 1515 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Kitty Anne Lake Recreation Site | 1517 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing canoeing, boating and scenic viewing activities. Public Recreation Objective: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Lawrence Lake East Recreation Site | 1516 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, boating and canoeing, activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Lawrence Lake West Recreation Site | 4580 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Lolo Lake Recreation Site | 1511 | 1997/03/24 Recreation Experience Objective: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objective: To protect the small lake, fish and developed campsite features. Recreation Activity Objective: To provide opportunities for summer camping, sport fishing, canoeing, boating and scenic viewing activities. Public Recreation Objective: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| McCorvie Lake North Recreation Site | 1519 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake and fish features. Recreation Activity Objectives: To provide opportunities for sport fishing, canoeing and potential or future summer camping activities. Public Recreation Objective: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Messiter Lake Recreation Site | 4758 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake and fish features. Recreation Activity Objectives: To provide opportunities for sport fishing and canoeing with potential for future summer camping activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Moira Lake North Recreation Site | 1998 | 1997/03/24 Recreation experience objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and regenerating stand features. Recreation Activity Objectives: To provide opportunities for sport fishing, boating, canoeing and potential for future summer camping activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Moira Lake South Recreation Site | 1513 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Moose Lake Recreation Site | 4582 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing and canoeing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Mud Lake Recreation Trail | 1793 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fish and developed campsite and land trail features. Recreation Activity Objectives: To provide opportunities for summer camping, hiking, sport fishing, canoeing and boating. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* and 4 wheel drive spur *road* access to the site. |
| Mystery Lake Recreation Site | 1740 | 1997/03/10 Recreation experience objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation feature objectives: To protect the small lake, fish and developed campsite features. Recreation activity objectives: To provide opportunities for summer camping, sport fishing and canoeing. Public recreation objectives: To maintain summer, 2 wheel drive, Forest Service *Road* and 2 wheel drive spur *road* access to the site. |
| North Thompson Crossing Recreation Site | 1901 | 1997/03/10 Recreation experience objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation feature objectives: To protect the large river and fish features. Recreation activity objectives: To provide opportunities for sport fishing, and canoeing and potential for future summer camping activities. Public recreation access objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Raft Mountain Recreation Trail | 4527 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for semi-primitive, natural *road*ed and modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the alpine/high sub-alpine and small lake features. Recreation Activity Objectives: To provide opportunities for primarily snowmobiling as well as snow sport activities during winter season and hiking, scenic viewing and hunting (during the regulated season) during the remainder of the year. Public Recreation Objectives: Winter snowmobile trail head access is via a maintained public *road*. Summer access is provided by maintained Forest Service *road* (suitable for 2 wheel drive vehicles) to Moilliett Creek in the Raft River and to Caligata Lake at the headwaters of Spahats Creek. Rough Forest Service *road* (suitable for 4 wheel drive vehicles) provides summer access to the upper elevation areas in the vicinity of Willis Lake. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Reflector Lake North Recreation Site | 1524 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake and fish features. Recreation Activity Objectives: To provide opportunities for sport fishing, canoeing and potential for future summer activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the vicinity of the site. |
| Rocky Point Recreation Site | 4705 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, swimming/bathing, sport fishing, canoeing and boating activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* and spur *road* access to the site. |
| Rock Island Recreation Site | 4601 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objective: To protect the large lake, islets, fine textured beach and fish features. Recreation Activity Objectives: To provide opportunities for swimming/bathing, beach activities, nature study/appreciation, sport fishing, boating, canoeing activities with potential for future summer camping activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Sicily Lake South Recreation Site | 1518 | 1997/03/24 Recreation Experience Objective: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, boating and canoeing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* access to the site. |
| Silence Lake Recreation Site | 1510 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for natural *road*ed recreation experiences. Recreation Feature Objectives: To protect the mid-sized lake, fish and developed campsite features. Recreation Activity Objective: To provide opportunities for summer camping, sport fishing and boating activities. Public Recreation Access Objective: To maintain summer, 2 wheel drive, Forest Service *Road* and spur *road* access to the site. |
| Silvertip Falls Recreation Site | 4600 | 1997/03/10 Recreation experience objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation feature objectives: To protect the site specific waterfall, creek, developed trail and campsite features. Recreation activity objectives: To provide opportunities for summer camping, hiking and scenic viewing activities. Public recreation objectives: To maintain summer, 2WD Forest Service *Road* to the site. |
| Stukemapten Lake Recreation Site | 4781 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, boating and canoeing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* to the site. |
| Tsikwustum Creek North Recreation Site | 4501 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fine textured beach, fish, creek and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, beach activities, swimming/bathing, sport fishing, canoeing and boating. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *Road* access to the site. |
| Tsikwustum Creek South Recreation Site | 1942 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the large lake, fine textured beach, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, beach activities, swimming/bathing, sport fishing, canoeing and boating. Public Recreation Objectives: To maintain summer, 2 wheel drive, Forest Service *road* and spur *road* access to the site. |
| White Lake Recreation Site | 1991 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing and canoeing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |
| Windy Lake Recreation Site | 1992 | 1997/03/24 Recreation Experience Objectives: To provide opportunities for modified *road*ed recreation experiences. Recreation Feature Objectives: To protect the small lake, fish and developed trail and campsite features. Recreation Activity Objectives: To provide opportunities for summer camping, sport fishing, boating and canoeing activities. Public Recreation Objectives: To maintain summer, 2 wheel drive, forest *road* access to the site. |

## *FDU* #2- Merritt Recreation Sites and Trails

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Abbott Lake Recreation Site | 1735 | 00/01/31 The objective is to manage the Abbott Lake recreation site for a *road*ed recreation experience. The campsite will be maintained and the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Andy's Lake Recreation Site | 5538 | 00-01-31 The objective is to manage the Andy's Lake recreation site for a *road*ed recreation experience. The campsite will be maintained and the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Access to lake from recreation site is by non-motorized trail. It is also a part of the Thynne Mtn. snowmobile trail system. An emergency shelter is located across from the recreation site. |
| Another Lake Recreation Site | 1842 | 00-01-31The objective is to manage Another Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by non-motorized trail. |
| Antler Lake Recreation Site | 1729 | 00-01-31 The objective is to manage the Antler Lake recreation site for a *road*ed and semi primitive non-motorized recreation experience. The trailhead, trail and the campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, hiking, picnicking, boating and swimming will be available at the site. Camping facilities are available at the trailhead/parking area. Access to the lake is by non-motorized trail. |
| Billy Lake Recreation Site | 1730 | 00-01-31 The objective is to manage the Billy Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Bluey Lake Recreation Site | 1719 | 00-01-31 The objective is to manage the Bluey Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Bob Lake E. Recreation Site | 1884 | 00-01-31 The objective is to manage Bob Lake E. for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Very rough *road* access to the lake; also walk in access from Bob Lake West. |
| Bob Lake W. Recreation Site | 1838 | 00-01-31 The objective is to manage the Bob Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Bobs Lake Recreation Site | 1737 | 00-01-31 The objective is to manage the Bobs Lake recreation site for a *road*ed experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Boot Lake Recreation Site | 1728 | 00-01-31 The objective is to manage the Boot Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Boss Lake Recreation Site | 1714 | 00-01-31 The objective is to manage the Boss Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. ATV opportunities are available nearby. |
| Brook Lake Recreation Site | 1660 | 00-01-31 The objective is to manage Brook Lake for a semi primitive non-motorized recreation experience. The trailhead, trail and lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. Lake is located within a community watershed. Access is by non-motorized trail. Snowmobile activities are available in the winter. |
| Buck Lake Recreation Site | 6234 | 00-01-31 The objective is to manage the Buck Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Butler Lake Recreation Site | 1777 | 00-01-31 The objective is to manage Butler Lake for a semi primitive non-motorized recreation experience. The trailhead, trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by a non-motorized trail. |
| Cabin Lake Recreation Site | 4627 | 00-01-31 The objective is to manage the Cabin Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Calling Lake Recreation Site | 6686 | 00-01-31 The objective is to manage the Calling Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Chain Lake W. Recreation Site | 1649 | 00-01-31 The objective is to manage the Chain Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Centre Lake Recreation Site | 1756 | 00-01-31 The objective is to manage Centre Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for hiking, nature observation and picnicking will be available. |
| Clifford Lake Recreation Site | 1636 | 00-01-31 The objective is to manage the Clifford Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Copper Creek Recreation Site | 1629 | 00-01-31 The objective is to manage the Copper Creek recreation site for a *road*ed recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and swimming will be available at the site. During the winter, the recreation site may serve as a trailhead for the Placer Mountain snowmobile trail. |
| Davis Lake Recreation Site | 1713 | 00-01-31 The objective is to manage the Davis Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Located within a Ducks Unlimited project area. ATV opportunities are available nearby. |
| Deadman Lake S. Recreation Site | 1648 | 00-01-31 The objective is to manage Deadman Lake S. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Debbie Lake Recreation Site | 4528 | 00-01-31 The objective is to manage Debbie Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by a rough four-wheel drive *road*. |
| Dewdney Recreation Site | 1633 | 00-01-31 The objective is to manage the Dewdney recreation site for a *road*ed recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, river canoeing, kayaking, picnicking and swimming will be available at the site. Hiking opportunities are available nearby on a portion of the historic Dewdney Trail. |
| Dot Lake Recreation Site | 1823 | 00-01-31 The objective is to manage the Dot Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating and swimming will be available at the site. |
| Eastmere / Westmere Lake Recreation Site | 1761 | 00-01-31 The objective is to manage the Eastmere / Westmere Lake recreation site for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. Access is by non-motorized trail. |
| Elkhart Lake Recreation Site | 1736 | 00-01-31 The objective is to manage the Elkhart Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Farr Lake Recreation Site | 1830 | 00-01-31 The objective is to manage Farr Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Garrison Lake Recreation Site | 4530 | 00-01-31 The objective is to manage the Garrison Lake recreation site for a semi primitive non-motorized recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for hiking, camping, picnicking and swimming will be available at the site. Access is by non-motorized trail. |
| Gill Lake Recreation Site | 4640 | 00-01-31 The objective is to manage Gill Lake recreation site for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by non-motorized trail from utility corridor. |
| Gillis Lake E. Recreation Site | 1724 | 00-01-31 The objective is to manage Gillis Lake E. for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. |
| Gillis Lake W. Recreation Site | 1876 | 00-01-31 The objective is to manage the Gillis Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Glimpse Lake N. Recreation Site | 1828 | 00-01-31 The objective is to manage the Glimpse Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Glimpse Lake SW | 1723 | 00-01-31 The objective is to manage the Glimpse Lake SW recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Goose Lake N. Recreation Site | 1641 | 00-01-31 The objective is to manage the Goose Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Goose Lake S. Recreation Site | 1791 | 00-01-31 The objective is to manage the Goose Lake S. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Gordon Lake Recreation Site | 1731 | 00-01-31 The objective is to manage the Gordon Lake recreations site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles |
| Granite Creek Recreation Site | 1653 | 00-01-31 The objective is to manage the Granite Creek recreation site for a *road*ed recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, canoeing, kayaking and swimming will be available at the site. |
| Gus' Pond Recreation Site | 6523 | 00-01-31 The objective is to manage Gus' pond recreation site for a semi primitive non-motorized recreation experience. The lakeshore and adjacent vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available; no motorized use permitted as per the Pennask LRUP. |
| Gwen Lake Recreation Site | 1717 | 00-01-31 The objective is to manage Gwen Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Gypsum Lake S. Recreation Site | 1885 | 00-01-31 The objective is to manage Gypsum Lake S. for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. |
| Gypsum Lake W. Recreation Site | 1734 | 00-01-31 The objective is to manage the Gypsum Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, hiking, picnicking, boating and swimming will be available at the site. |
| Hamilton Pond Recreation Site | 1898 | 00-01-31 The objective is to manage Hamilton Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by a rough four-wheel drive *road*. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Harmon Lake East Recreation Site | 1715 | 00-01-31 The objective is to manage the Harmon Lake E. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating and swimming will be available at the site. |
| Harmon Lake West Recreation Site | 6198 | 00-01-31 The objective is to manage the Harmon Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. This site also contains some walk-in sites. |
| Helmer Lake Recreation Site | 1839 | 00-01-31 The objective is to manage the Helmer Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Walk-in from nearby Helmer Interchange; gate locked Tuesday before May long weekend and open Friday before Thanksgiving weekend. |
| Hook Lake N. Recreation Site | 1833 | 00-01-31 The objective is to manage the Hook Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site, via the utility corridor. |
| Island Lake Recreation Site | 1727 | 00-01-31 The objective is to manage the Island Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Jacobson Lake Recreation Site | 4674 | 00-01-31 The objective is to manage the Jacobson Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating, equestrian and swimming will be available at the site. |
| Jackson Lake Recreation Site | 6522 | 00-01-31 The objective is to manage the Jackson Lake recreation for a semi primitive motorized recreation experience. The lakeshore and adjacent vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available; no motorized use permitted as per the Pennask LRUP. |
| Jameson Lake Recreation Site | 5879 | 00-01-31 The objective is to manage Jameson Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by rough four-wheel drive *road*. |
| Jim Kelly Creek Recreation Site | 1814 | 00-01-31 The objective is to manage Jim Kelly Creek for a *road*ed recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking and swimming will be available. |
| Johnny Lake Recreation Site | 1638 | 00-01-31 The objective is to manage the Johnny's Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| John's Lake Recreation Site | 1843 | 00-01-31 The objective is to manage John's Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by non-motorized trail. |
| Jono Lake Recreation Site | 4642 | 00-01-31 The objective is to manage Jono Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by rough four-wheel drive *road*. |
| Kane Lake Recreation Site | 1877 | 00-01-31 The objective is to manage the Kane Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, equestrian, hiking, picnicking, boating and swimming will be available at the site. In the winter, there are opportunities for cross-country skiing. |
| Kump Lake Recreation Site | 1646 | 00-01-31 The objective is to manage the Kump Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| LeRoy Lake Recreation Site | 6341 | 00-01-31 The objective is to manage the LeRoy Lake recreation site and trail for a *road*ed and semi primitive non-motorized recreation experience. The trailhead, trail and campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for hiking, mountain biking, equestrian use, camping, picnicking, boating and swimming will be available at the site. *Road*ed to trailhead, then walk-in to the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Lightning Lake Recreation Site | 1835 | 00-01-31 The objective is to manage the Lightning Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Lily Lake Recreation Site | 1718 | 00-01-31 The objective is to manage the Lily Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Link Lake Recreation Site | 1650 | 00-01-31 The objective is to manage the Link Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Little Box Canyon Recreation Site | 4671 | 00-01-31 The objective is to manage the Little Box Canyon recreation site for a *road*ed recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, river boating and swimming will be available at the site. Very rough *road* access to the site. |
| Little Douglas Lake Recreation Site | 1815 | 00-01-31 The objective is to manage the Little Douglas Lake recreation site for a semi primitive non-motorized recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. Access is by non-motorized trail. |
| Little Mellin / Holmes Recreation Site | 6520 | 00-01-31 The objective is to manage Little Mellin/Holmes recreation site for a semi primitive non-motorized recreation experience. The lakeshore and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. No motorized use permitted, as per the Pennask LRUP. |
| Little Spahomin Lake Recreation Site | 6521 | 00-01-31 The objective is to manage Little Spahomin Lake Recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. No motorized use permitted, as per the Pennask LRUP. |
| Lodestone Lake Recreation Site | 1631 | 00-01-31 The objective is to manage the Lodestone Lake recreation site for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking, equestrian, boating and swimming will be available at the site. Access is by a rough four-wheel drive *road*. |
| Lodwick Lake N. Recreation Site | 1643 | 00-01-31 The objective is to manage Lodwick Lake N. recreation site for a recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Lodwick Lake S. Recreation Site | 1642 | 00-01-31 The objective is to manage Lodwick Lake S. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Loosemore Lake Recreation Site | 6142 | 00-01-31 The objective is to manage the Loosemore Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Lundbom Lake E. Recreation Site | 1711 | 00-01-31 The objective is to manage the Lundbom Lake E. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Lundbom Lake W. Recreation Site | 1883 | 00-01-31 The objective is to manage the Lundbom Lake W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, equestrian and swimming will be available at the site. |
| Mab Lake Recreation Site | 1825 | 00-01-31 The objective is to manage Mab Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by a rough four-wheel drive *road*. |
| Marquart Lake Recreation Site | 1757 | 00-01-31 The objective is to manage the Marquart Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Site on the west end is walk-in from the parking lot. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Mellin Lake Recreation Site | 6260 | 00-01-31 The objective is to manage the Mellin Lake recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and adjacent natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. No motorized use permitted, as per the Pennask LRUP. |
| Michael Lake Recreation Site | 5878 | 00-01-31 The objective is to manage Michael Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Very rough access to the site will be maintained for four-wheel drive vehicles. |
| Missezula Lake N. Recreation Site | 1722 | 00-01-31 The objective is to manage the Missezula Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Murphy Lake Recreation Site | 1656 | 00-01-31 The objective is to manage the Murphy Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Access to lake from the recreation site is by a non-motorized trail. |
| Murray Lake N. Recreation Site | 1725 | 00-01-31 The objective is to manage the Murray Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Murray Lake S. Recreation Site | 1738 | 00-01-31 The objective is to manage the Murray Lake S. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Mystery Lake Recreation Site | 1808 | 00-01-31 The objective is to manage Mystery Lake for a semi primitive motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Very rough *road* access to the site via the utility corridor. |
| N'Kwala Recreation Site | 5507 | 00-01-31 The objective is to manage the N'Kwala recreation site for a *road*ed recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site. |
| Old Hedley *Road* E. Recreation Site | 1634 | 00-01-31 The objective is to manage the Old Hedley *Road* E. recreation site for a *road*ed recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site. |
| Old Hedley *Road* W. Recreation Site | 1661 | 00-01-31 The objective is to manage the Old Hedley *Road* W. recreation site for a *road*ed recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site. |
| Osprey Lake N. Recreation Site | 1651 | 00-01-31 The objective is to manage the Osprey Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Osprey Lake S. Recreation Site | 1778 | 00-01-31 The objective is to manage Osprey Lake South for a semi primitive motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by motorized trail. |
| Peter Hope Lake N. Recreation Site | 1726 | 00-01-31 The objective is to manage the Peterhope Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Peterhope Lake S. Recreation Site | 1845 | 00-01-31 The objective is to manage Peterhope Lake S. for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. |
| Pimainus Lake Recreation Site | 6053 | 00-01-31 The objective is to manage the Pimainus Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Placer Lake Recreation Site | 1652 | 00-01-31 The objective is to manage the Placer Lake recreation site for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Plateau Lake Recreation Site | 1548 | 00-01-31 The objective is to manage the Plateau Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Power Lake Recreation Site | 4641 | 00-01-31 The objective is to manage Power Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by rough four-wheel drive *road* via the utility corridor. |
| Prosser Lake Recreation Site | 1647 | 00-01-31 The objective is to manage the Prosser Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough access to the site will be maintained for four-wheel drive vehicles. |
| Rampart Lake Recreation Site | 1655 | 00-01-31 The objective is to manage the Rampart Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Red Rock Canyon Recreation Site | 5880 | 00-01-31 The objective is to manage the Red Rock Canyon for a *road*ed recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), kayaking, canoeing, picnicking and swimming will be available at the site. |
| Reservoir Lake Recreation Site | 1836 | 00-01-31 The objective is to manage the Reservoir Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Rey Lake Recreation Site | 1840 | 00-01-31 The objective is to manage Rey Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by a very rough four-wheel drive *road* via the utility corridor. |
| Ricky Lake Recreation Site | 1637 | 00-01-31 The objective is to manage the Ricky Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Robertson Lake Recreation Site | 1645 | 00-01-31 The objective is to manage Robertson Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Rogene Lake Recreation Site | 1841 | 00-01-31 The objective is to manage Rogene Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is via Bob's-Elkhart Trail (project 5877); no motorized use permitted. |
| Roscoe Lake Recreation Site | 4741 | 00-01-31 The objective is to manage the Roscoe Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, hiking and swimming will be available at the site. Rough seasonal four-wheel drive access. |
| Shea Lake Recreation Site | 1712 | 00-01-31 The objective is to manage the Shea Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Silver Lake Recreation Site | 1834 | 00-01-31 The objective is to manage the Silver Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Stevens Lake Recreation Site | 6054 | 00-01-31 The objective is to manage Stevens Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Stoney Lake Recreation Site | 1644 | 00-01-31 The objective is to manage the Stoney Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Stringer Lake Recreation Site | 1654 | 00-01-31 The objective is to manage the Stringer Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Surrey Lake Recreation Site | 4676 | 00-01-31 The objective is to manage Surrey Lake for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. |
| Sussex Lake Recreation Site | 4675 | 00-01-31 The objective is to manage the Sussex Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Sutter Creek Recreation Site | 1659 | 00-01-31 The objective is to manage the Sutter Creek recreation site for a *road*ed recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and swimming will be available at the site. |
| Tahla Lake Recreation Site | 1822 | 00-01-31 The objective is to manage the Tahla Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Thalia Lake N. Recreation Site | 1640 | 00-01-31 The objective is to manage the Thalia Lake N. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Thalia Lake S. Recreation Site | 1639 | 00-01-31 The objective is to manage the Thalia Lake S. recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| The Keeper Recreation Site | 5881 | 00-01-31 The objective is to manage The Keeper for a *road*ed recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking and swimming will be available. Access is by a rough four-wheel drive *road*. |
| Third Lake Recreation Site | 6052 | 00-01-31 The objective is to manage the Third Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Tulameen Falls Recreation Site | 5547 | 00-01-31 The objective is to manage Tulameen Falls for a semi primitive non-motorized recreation experience. The creek shoreline and natural vegetation will be conserved. Access is by non-motorized trail. |
| Tupper Lake Recreation Site | 5933 | 00-01-31 The objective is to manage the Tupper Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Two Island Lake Recreation Site | 6519 | 00-01-31 The objective is to manage Two Island Lake recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by non-motorized trail as per the Pennask LRUP. |
| Tyner Lake Recreation Site | 1733 | 00-01-31 The objective is to manage the Tyner Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Upper Boulder Lake Recreation Site | 1844 | 00-01-31 The objective is to manage Upper Boulder Lake for a semi primitive non-motorized recreation experience. The trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access to the lake is by a non-motorized trail. |
| Vinson Lake Recreation Site | 1773 | 00-01-31 The objective is to manage Vinson Lake for a semi primitive non-motorized recreation experience. The trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access to the lake is by a non-motorized trail. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Vuich Falls Recreation Site | 5544 | 00-01-31 The objective is to manage the Vuich Falls recreation site for a *road*ed recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and swimming will be available at the site. |
| Wasley Lake Recreation Site | 6261 | 00-01-31 The objective is to manage Wasley Lake recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available. Access is by non-motorized trail as per the Pennask LRUP. |
| Wells Lake Recreation Site | 1630 | 00-01-31 The objective is to manage the Wells Lake recreation site for a *road*ed recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating and swimming will be available at the site. Very rough *road* access to the site will be maintained for four-wheel drive vehicles. |
| Zum Peak Recreation Site | 5545 | 00-01-31 The objective is to manage the Zum Peak recreation site for a *road*ed recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. |
| Godey Creek Interpretive Trail | 5542 | 00-01-31 The objective is to manage Godey Creek interpretative trail for a semi primitive non-motorized recreation experience. The trail will be maintained. The natural vegetation will be conserved. Opportunities for nature study, hiking, viewing and picnicking will be available. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Harmon Lake Interpretive Trail | 4740 | 00-01-31 The objective is to manage the Harmon Lake interpretative trail for a semi primitive non-motorized recreation experience. The trail will be maintained; and natural vegetation will be conserved. Opportunities for nature study, hiking, viewing and picnicking will be available. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Bob's - Elkhart Lake Trail | 5877 | 00-01-31 The objective is to manage the Bob's - Elkhart Lake recreation trail for a semi primitive non-motorized recreation experience. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. The trail will be maintained and adjacent vegetation conserved. Opportunities may include, but are not limited to, hiking, mountain biking and equestrian use. Facilities are only available at Bob's Lake recreation site trailhead. |
| China Ridge Recreation Trail | 4560 | 00-01-31 In winter, when snow is on the ground, the objective is to manage the China Ridge recreation trail for a semi primitive non-motorized recreation experience, opportunities for cross country skiing are available, no motorized use permitted, other than for track-setting, trail grooming activities and at designated crossings. In the summer, during the snow-free season, the objective is to manage the trail for a *road*ed resource recreation experience. The trail will be maintained and adjacent vegetation conserved. The trail width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. Facilities include open shelters throughout the system and an emergency shelter issued under SUP 19107L. |
| Garrison Lake Recreation Trail | 4677 | 00-01-31 The objective is to manage the Garrison Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted. The total trail width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Gill Lake Trail Recreation Site | 4640 | The objective is to manage Gill Lake Trail for a semi primitive non-motorized recreation experience. The trail and natural vegetation will be conserved. Opportunities for hiking, mountain biking, and equestrian uses are available; no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Gus' Pond Recreation Trail | 6523 | 00-01-31 The objective is to manage the Gus' Pond recreation trail for as semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters either side of the centre line of the trail. |
| Gypsum Mountain Recreation Trail | 5541 | 00-01-31 The objective is to manage the Gypsum Mtn. recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
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| Jackson Lake Recreation Trail | 6522 | 00-01-31 The objective is to manage the Jackson Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Kane Valley Recreation Trail | 4559 | 00-01-31 In winter, when snow is on the ground, the objective is to manage the Kane Valley recreation trail for a semi primitive non-motorized recreation experience. Opportunities for cross-country skiing are available; no motorized use permitted, other than for track-setting and trail grooming activities. In the summer, during the snow free season, the objective is to manage the trail for a *road*ed resource recreation experience; opportunities for hiking, equestrian, mountain biking and trail bike/ATV riding are available. The trail will be maintained and adjacent vegetation conserved. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Knight Lake Recreation Trail | 5871 | 00-01-31 The objective is to manage the Knight Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Little Douglas Lake Recreation Trail | 1846 | 00-01-31 The objective is to manage the Little Douglas Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. |
| Little Mellin / Holmes Recreation Trail | 6520 | 00/01/31 The objective is to manage Little Mellin / Holmes Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for hiking, mountain biking and equestrian uses are available. No motorized use permitted, as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Little Spahomin Lake Recreation Trail | 6521 | 00-01-31 The objective is to manage Little Spahomin Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for hiking, mountain biking and equestrian uses are available. No motorized use permitted, as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Lundbom / Tent Mtn. Bike Trail | 6675 | 00-01-31 The objective is to manage Lundbom / Tent Mountain trail for a semi primitive non-motorized recreation experience. The trail and natural vegetation will be conserved. Opportunities for hiking, mountain biking, and equestrian uses are available. No motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. |
| Mellin Lake Recreation Trail | 6260 | 00-01-31 The objective is to manage the Mellin Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Norgaard Lake Recreation Trail | 6525 | 00-01-31 The objective is to manage the Norgaard Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Rainbow Lake Recreation Trail | 6524 | 00-01-31 The objective is to manage the Rainbow Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Roscoe Lake Recreation Trail | 4741 | 00-01-3 The objective is to manage the Roscoe Lake recreation trail for a semi-primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Two Island Recreation Trail | 6519 | 00-01-31 The objective is to manage the Two Island Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Walker Lake Recreation Trail | 6696 | 00-01-31 The objective is to manage the Walker Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |
| Wasley Lake Recreation Trail | 6261 | 00-01-31 The objective is to manage the Wasley Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available; no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail. |

## *FDU* #3 and #4 - Okanagan Recreation Sites and Trails

| *FPC* Sensitive Area | File Number | Sensitive Area Objectives |
|---|---|---|
| Rose Swanson Sensitive Area | 12500-20 Rose Swanson Established pursuant to *FPC* section 5, effective April 30, 1997. | The following objectives are established for the Rose Swanson Sensitive Area:<br>• Maintain and enhance trail network for use by recreationists.<br>• Protect visual quality of the area.<br>• Maintain recreation values by limiting timber harvesting to low impact silviculture systems.<br>• Protect area against vandalism and timber theft. |

| Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Harper Lake Recreation Site | 1561 | The objectives are to manage Harper Lake recreation site for a *road*ed recreation experience. The Crown land portion of the shoreline and coniferous vegetation features will be retained. Opportunities for camping, picnicking, fishing, and boating will be provided at the site. Gravel *road* access to the site will be maintained for two wheel drive vehicles from late April to mid-October. |
| Skimikin Lake Recreation Site | 1562 | The objectives are to manage the Skimikin Lake Recreation Site for a *road*ed recreation experience. The Crown Land portion of the shoreline and coniferous vegetation features will be retained. Opportunities for camping, picnicking, boating fishing, hiking, and cross country skiing will be maintained. Paved *road* access will be maintained on a year round basis. |
| Wallensteen Lake Recreation Site | 1563 | The objectives are to manage the Wallensteen Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and boating will be maintained. Gravel *road* access will be maintained for a two wheel drive vehicle from early June to mid-October. |
| Wap Lake Recreation Site | 1564 | The objectives are to manage Wap Lake West recreation site for a *road*ed recreation experience. The lake shoreline and the coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, scenic viewing, nature study and boating will be maintained. Access by gravel *road* and *road* maintenance will allow access from mid-April to mid-October via two wheel drive. |
| Queest Mountain Recreation Site | 1554 | The objectives are to manage the Queest Mountain recreation site for a *road*ed recreation experience. The alpine setting will be maintained in a natural state. Opportunities for camping, picnicking, viewing and hiking will be provided. Gravel *road* access will be maintained for four wheel drive vehicles from early July to mid-October. |
| Frog Falls Recreation Site | 1566 | The objectives are to manage the Frog Falls recreation site for a *road*ed recreation experience. The old growth cedar hemlock forest will be retained. Opportunities for camping, picnicking, viewing, hiking and nature study will be provided. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to mid-October. |
| Cooke Creek Recreation Site | 1743 | The objectives are to manage the Cooke Creek recreation site for a *road*ed recreation experience. The coniferous forested river banks will be retained. Opportunities for swimming, camping, picnicking, fishing, boating, canoeing, forest interpretation and hiking will be provided at the site. Paved *road* access to the site will be maintained year round. |
| Kidney Lake Recreation Site | 1744 | The objectives are to manage the Kidney Lake recreation site for a *road*ed recreation experience. The lake shoreline and the coniferous vegetation features will be retained. |

| Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| | | Opportunities for camping, picnicking, fishing, boating and viewing will be provided at the site. Gravel *road* access for two wheel drive vehicles will be maintained from late April to mid-November. |
| Dale Lake Recreation Site | 1745 | The objectives are to manage the Dale Lake recreation site for a *road*ed recreation experience. The lake shoreline of swamp complexes and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and canoeing will be provided at the site. Gravel *road* access to the site will be maintained for two wheel drive vehicles from late April to mid-November. |
| Elbow Lake Recreation Site | 1746 | The objectives are to manage the Elbow Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and viewing will be provided at the site. Gravel *road* access to the site will be maintained for four wheel drive vehicles from late April to mid-November. |
| Grassy Lake Recreation Site | 1747 | The objectives are to manage the Grassy Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, boating and viewing will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from early June to early November. |
| Holiday Lake Recreation Site | 1748 | The objectives are to manage the Holiday Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and viewing will be provided for at the site. Gravel *road* access will be maintained for four wheel drive vehicles from early June to early November. |
| Noreen Lake Recreation Site | 1749 | The objectives are to manage the Noreen Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and boating will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from early June to early November. |
| Noisy Creek Recreation Site | 1750 | The objectives are to manage the Noisy Creek recreation site for a *road*ed recreation experience. The lake shore and coniferous vegetation will be retained. Opportunities for camping, picnicking, hiking, viewing, boating, fishing and water sports will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from late April to mid-November. |
| Spruce Lake Recreation Site | 1751 | The objectives are to manage the Spruce Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous forest vegetation will be retained. Opportunities for camping, picnicking, fishing, and canoeing will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from mid- June to late October. |
| Stoney Lake Recreation Site | 1752 | The objectives are to manage the Stoney Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, and canoeing will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from mid- June to late October. |
| Reeves Lake Recreation Site | 1753 | The objectives are to manage the Reeves Lake recreation site for a semi primitive non-motorized recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for hiking, camping, fishing, and viewing will be provided for at the site. A walk in trail of 2.5 kilometres will be maintained from early May to mid-October. |
| Cummins Lake Recreation Site | 1764 | The objectives are to manage the Cummins Lake recreation site for a *road*ed recreation experience. The lake shoreline and semi-alpine coniferous vegetation will be retained. Opportunities for camping, picnicking, canoeing and viewing will be provided for at the site. Gravel *road* access will be maintained for four wheel drive vehicles from mid- June to late October. |
| Cariboo Lake Recreation Site | 1776 | The objectives are to manage the Cariboo Lake recreation site for a semi primitive non-motorized recreation experience. Opportunities for hiking, camping, viewing, fishing, and canoeing will be provided for at the site. Gravel *road* access will be maintained for four wheel drive vehicles to the site boundary and a walk in trail of one kilometre to the lake will allow access from late June to early October. The coniferous forest and semi-alpine areas will be retained in their natural state. |
| Bryden Lake Recreation Site | 1781 | The objectives are to manage the Bryden Lake recreation site for a semi primitive non-motorized recreation experience. Opportunities for hiking, camping, fishing, canoeing and viewing will be provided for at the site. Gravel *road* access to the Pement-Bryden trail head will be maintained for four wheel drive vehicles from mid-May to late October. The hiking trail will be maintained for the same time period. |
| Nellie Lake Recreation Site | 1792 | The objectives are to manage the Nellie Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, boating and viewing will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles on a year round basis. |

| Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Site or Trail Objectives continued under *FRPA* section 181 |
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| Humamilt Islands Recreation Site | 1818 | The objectives are to manage the Humamilt Islands recreation site for a semi primitive non-motorized recreation experience. The islands of this site will be retained in a natural state. Opportunities for camping, picnicking, fishing, boating and viewing will be provided for at the site. Access will be by boat only and the lake will be ice free from late April to early November. |
| Humamilt Lake South Recreation Site | 1819 | The objectives are to manage the Humamilt Lake South recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation will be retained. Opportunities for camping, picnicking, fishing, viewing, and boating will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to late November. |
| Seymour River Falls Recreation Site | 1878 | The objectives are to manage the Seymour Falls recreation site for a *road*ed recreation experience. The river banks and coniferous vegetation will be retained. Opportunities for camping, picnicking, viewing, hiking and fishing will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid- April to late November. |
| Humamilt Lake East Recreation Site | 1888 | The objectives are to manage the Humamilt Lake East recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation features will be retained. Opportunities for camping, picnicking, boating, fishing, and hiking will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to late November. |
| Humamilt Lake West Recreation Site | 1889 | The objectives are to manage the Humamilt Lake West recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation features will be retained. Opportunities for camping, picnicking, boating, fishing, and viewing will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to late November. |
| Pement-Bryden Lake Trail | 1890 | The objectives are to manage the Pement-Bryden recreation trail for a semi primitive non-motorized experience. The coniferous vegetation will be retained. Opportunities for hiking and viewing will be provided at the trail. Access to the trail will be maintained for four wheel drive vehicles. Trail use will be for foot travel only – no motorized use allowed. |
| Pement Lake Recreation Site | 1891 | The objectives are to manage the Pement Lake recreation site for a semi primitive non-motorized recreation experience. Opportunities for hiking, camping, fishing, canoeing and viewing will be provided at the site. Gravel *road* access to the Pement-Bryden trail head will be maintained for four wheel drive vehicles from mid-May to late October. The hiking trail will be maintained for the same time period. |
| Herman Lake Recreation Site | 1897 | The objectives are to manage the Herman Lake recreation site for a *road*ed recreation experience. The lake shoreline of swamp complexes and the coniferous forests will be retained in a natural state. Opportunities for camping, picnicking, viewing, and canoeing will be provided at the site. Gravel *road* access for two wheel drive vehicles will be maintained from mid-April to mid-November. |
| Wap Lake East Recreation Site | 1905 | The objectives are to manage Wap Lake East recreation site for a *road*ed recreation experience. The lake shoreline of swamp complexes and the coniferous forest feature will be retained. Opportunities for camping, picnicking, fishing, scenic viewing, nature study and boating will be maintained. Access by gravel *road* and *road* maintenance will allow access from mid-April to mid-October via two wheel drive. |
| Larch Hills Trails | 1916 | The objectives are to manage Larch Hills recreation trails for both summer and winter recreation opportunities. In winter the trails will be managed for a semi-primitive non-motorized complex of cross country ski trails. In summer the trail system will provide opportunities for hiking, trail hiking, horseback riding, motor cycle riding and forest interpretation. Gravel *road* access for two wheel drive vehicles will be maintained on a year round basis |
| Gorge Creek Trail | 1923 | The objectives are to manage the Gorge Creek recreation trail for a *road*ed recreation experience. Opportunities for hiking, viewing and picnicking will be provided on this trail system. Paved *road* access will be maintained on a year round basis. |
| Kernaghan Lake North Recreation Site | 1925 | The objectives are to manage the Kernaghan Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous forest features will be retained. Opportunities for camping, hiking, picnicking, fishing and viewing will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from early June to mid-November. |
| Kernaghan Lake South Recreation Site | 1926 | The objectives are to manage the Kernaghan Lake South recreation site for a *road*ed recreation experience. The lake shoreline and coniferous forest features will be retained. Opportunities for camping, fishing, picnicking, and viewing will be provided at the site. Gravel *road* access will be maintained for four wheel drive vehicles from early June to mid-November. |

| Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Kwikoit Creek Recreation Site | 1927 | The objectives are to manage the Kwikoit Creek recreation site for a *road*ed recreation experience. The coniferous forest features will be retained on site. Opportunities for camping, picnicking, fishing, viewing and hiking will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to late November. |
| Rosemond Lake Recreation Site | 1928 | The objectives are to manage the Rosemond Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous forest features will be retained. Opportunities for camping, picnicking, viewing, fishing, hiking and boating will be provided at the site. A gravel *road* will be maintained for four wheel drive vehicles from mid-April to early November. |
| Cottonbelt Trail | 1930 | The objectives are to manage the Cottonbelt recreation trail for a semi primitive recreation experience. Opportunities for hiking, exploring, viewing and non-site location camping is available along the trail. Gravel *road* access will be maintained to the trail head for two wheel drive vehicles from mid-May to late October. No motorized use will be permitted on the trail. |
| Seymour Lookout Trail | 1931 | The objectives are to manage the Seymour Lookout recreation trail for a semi primitive recreation experience. The coniferous forests and alpine features along the trail will be retained. Opportunities for hiking, viewing, and exploring will be available along the trail system. Gravel *road* access will be maintained for two wheel drive vehicles from mid-May to late October. |
| Mara Lookout Trail | 1932 | The objectives are to manage the Mara Lookout trail for a semi primitive experience. The coniferous and alpine forest features along the trail will be retained. Opportunities for hiking, camping, viewing, and exploring will be provided along the trail system. Gravel *road* access to the trail head will be maintained for four wheel drive vehicles from mid-June to early October. No motorized use will be allowed. |
| Eagle Pass Ridge Trails | 1934 | The objectives are to manage the Eagle Pass Ridge trail for a semi primitive recreation experience. The coniferous forest and alpine forest features will be retained. Opportunities for hiking, viewing, exploring and camping will be available along this trail system. A very rough gravel *road* access will be maintained for four wheel drive vehicles from mid-June to mid-October. No motorized use will be permitted on the trail. |
| Mount Ida Trail | 1935 | The objectives are to manage the Mount Ida trail for a *road*ed recreation experience. The coniferous forest along the trail system will be retained. Opportunities for hiking, viewing, exploring will be provided for along the trail system. Access to the trial head will be maintained for four wheel drive vehicles from early May to mid-October. No motorized use will be permitted on the trail system. |
| Pukeashun Trail | 1938 | The objectives are to manage the Pukeashun recreation trail for a semi primitive recreation experience. The coniferous forest features along the trail is maintained. Opportunities for hiking, viewing, and exploring will be provided in the summer months while snowmobiling will be a winter opportunity. Access to the trail head will be maintained for four wheel drive vehicles in the summer months and no access by vehicles will be maintained in the winter months. |
| Humamilt North Recreation Site | 1949 | The objectives are to manage the Humamilt Lake North recreation site for a *road*ed recreation experience. The lake shoreline and coniferous vegetation features will be retained. Opportunities for camping, picnicking, boating, fishing, and viewing will be provided for at the site. Gravel *road* access will be maintained for two wheel drive vehicles from mid-April to mid-October. |
| Crowfoot Mountain Trail | 1980 | The objectives are to manage the Pukeashun recreation trail for a *road*ed recreation experience in the summer months, while providing a semi primitive recreation experience in the winter months. In summer opportunities for hiking, trail bike riding, motor cycle riding and viewing will be available. In winter opportunities for snowmobiling and viewing will be the focus. In the summer months a gravel *road* will be maintained for two wheel drive vehicles, to the trail head. In winter access may vary depending on industrial operations. |
| Skimikin Trails | 1982 | The objectives for Skimikin recreation trails are to provide a *road*ed recreation experience. The coniferous forest features will be retained. In winter opportunities for cross country skiing will be available while in summer the trail system will provide opportunities for hiking, bike riding, viewing, and forest interpretation. A paved *road* is maintained year around to the site. |
| Willow Point Beach Recreation Site | 1986 | The objectives are to manage the Willow Point beach recreation site for a semi-primitive motorized recreation experience. Access to this site is only by boat. The coniferous forest features and the lake shoreline will be retained. Opportunities for camping, picnicking, boating, fishing and viewing will be provided at the site. |
| Tsuius Narrows Recreation Site | 1987 | The objectives are to manage the Tsuius Narrows recreation site for a semi-primitive motorized recreation experience. The lake shoreline and the coniferous forest features will be retained. Opportunities for camping, boating, viewing, fishing and swimming will be available at the site. Access to this site is by boat. |

| Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Pintail Lake Recreation Site | 1990 | The objectives are to manage the Pintail Lake recreation site for a *road*ed recreation experience. The lake shoreline and coniferous forest features will be retained. Opportunities for camping, picnicking, fishing, canoeing and viewing will be available at the site. Gravel *road* access four wheel drive vehicles will be maintained from mid-May to mid-November. |
| Cache Cabin Recreation Site | 4584 | The objectives are to manage the Cache Cabin recreation site for a semi-primitive non-motorized recreation experience in the summer months while managing a semi-primitive motorized experience in the winter months. The surrounding coniferous forest vegetation and swamp complexes will be retained. The cabin will be kept in good repair and open for public use. Opportunities are available for camping, hiking, snowmobiling, cross country skiing as the season dictates. Summer access for four wheel drive will be maintained to the Mara Mountain hiking trail. Winter access will vary due to industrial operations. |
| Carram Lake Recreation Site | 4585 | The objectives are to manage the Carram Lake recreation site for a *road*ed recreation experience. The lake shore and coniferous forest features will be retained. Opportunities for camping, picnicking, fishing and viewing will be provided at the site. Access will maintained for four wheel drive vehicles from mid-June to mid-October. |
| Mount Begbie Recreation Site | 4711 | The objectives are to manage the Mount Begbie recreation site for a semi-primitive non-motorized recreation experience. The coniferous forest and alpine feature will be retained. Opportunities for hiking, wilderness camping, viewing and photography will be provided throughout this mountainous site. Gravel *road* access will be maintained for four wheel drive vehicles to the trail head leading to this site. Access by vehicle will be late June to late September. |
| Mara Mountain Snowmobile Trail | 5632 | The objectives are to manage the Mara Snowmobile trail for a semi-primitive motorized recreation experience. The alpine and coniferous forest features along the trial will be maintained. Opportunities for snowmobiling, viewing and exploring will be provided on the trail system. Trail access will vary due to industrial operations and snow conditions. Access will be by four wheel drive. |
| Queest Mountain Snowmobile Trail | 5942 | The objectives are to manage the Queest Mountain snowmobile trail for a semi-primitive motorized recreation experience. The alpine and coniferous forest features along the trail system will be retained. Opportunities for snowmobiling, viewing and exploring will be provided on the trail network. Trail access will vary with the industrial operations and snow conditions. Access will be by four wheel drive. |

## *FDU* #5 - Arrow Recreation Sites and Trails

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Beaver Lake Recreation Site | 2127 | 99/05/05 The objective is to manage the Beaver Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and boating will be available at the site. |
| Idaho Peak Recreation Site | 2128 | 99/05/05 The objective is to manage *road*ed portion of the Idaho Peak recreation site for a semi primitive recreation experience. The trails will be maintained; the alpine vegetation will be conserved. Opportunities for viewing and picnicking will be available. No mechanized or equestrian use on the Alamo and Idaho Peak Trails. |
| Box Lake Recreation Site | 2129 | 99/05/05 The objective is to manage the Box Lake recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. |
| Wilson Lake East Recreation Site | 2131 | 99/05/05 The objective is to manage the Wilson Lake East recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and boating will be available at the site. |
| Little Wilson Lake Recreation Site | 2142 | 99/05/05 The objective is to manage the Little Wilson recreation site for a *road*ed recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and boating will be available at the site. |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. 16660-20/ | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Wilson Lake West Recreation Site | 2378 | 98/05/26 The objective is to manage the Wilson Lake West recreation site for a lakeside, *road*ed resource recreation experience. The campsite will be maintained and the lake shoreline and natural vegetation conserved. Opportunities for camping, picnicking, swimming, boat launching and viewing will be available at the site. Access is by boat or *road*. |
| Silverton Creek Recreation Trail | 2436 | 98/05/26 The objective is to manage the Silverton Creek recreation trail for a forested and subalpine semi primitive recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking are available, no mechanized uses permitted. |
| Eagle Creek Recreation Trail | 2437 | 98/05/26 The objective is to manage the Eagle Creek recreation trail for a forested and subalpine semi primitive recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, equestrian and viewing are available, no mechanized uses permitted. |
| Dennis Creek Recreation Trail | 2439 | 98/05/26 The objective is to manage the Dennis Creek recreation trail for a forested and subalpine semi primitive recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and viewing are available, no mechanized uses permitted. |
| Kuskanux Creek Recreation Trail | 2444 | 98/05/26 The objective is to manage the Kuskanax Creek recreation trail for a forested, semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and mountain biking are available. |
| Kimbol Lake Recreation Trail | 2445 | 98/05/26 The objective is to manage the Kimbol Lake recreation trail for a forested, semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and viewing are available. |
| Cedar Grove Trail Recreation Site | 2446 | 98/05/26 The objective is to manage the Cedar Gove recreation site for a forested non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and viewing are available, no mechanized uses permitted |
| K&S Rail*road* Recreation Trail | 5076 | 98/05/26 The objective is to manage the K & S Rail*road* recreation trail for a forested recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and viewing are available, no motorized use permitted. |
| Bannock Point Recreation Site | 5077 | 98/05/26 The objective is to manage the Bannock Point recreation site for a lakeside recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. Access is by non-motorized trail and boat. |
| Wensley X Country Recreation Site | 5185 | 98/05/26 In winter, when cross country ski tracks are set, the objective is to manage the Wensley Cross Country recreation site for non-vehicle use, with the exception of snowmobiles used track setting, trail grooming and forest management activities. In summer, during the snow free season, the objective is to manage the trail for a forested, *road*ed resource recreation experience with opportunities for hiking, mountain biking and trail bike riding. |
| Wakefield Recreation Trail | 5684 | 98/05/26 The objective is to manage the Wakefield recreation trail for a forested alpine/subalpine, semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and viewing uses are available, no motorized use permitted. |
| Alps Alturas Recreation Trail | 5864 | 98/05/26 The objective is to manage the Alps Alturas recreation trail for a forested and subalpine semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and viewing uses are available, no mechanized uses permitted. |
| Kaslo River Trailway Recreation Trail | 6115 | 98/03/31 The objective is to manage the Kaslo River Trailway recreation trail for a forested, semi primitive recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for historic interpretation, cross-country skiing, mountain biking, hiking and equestrian use. Sections for motorized use are available |
| Billy Valentine Recreation Trail | 6305 | 98/05/26 The objective is to manage the Billy Valentine recreation trail for a forested and subalpine semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and viewing uses are available, no mechanized uses permitted. |

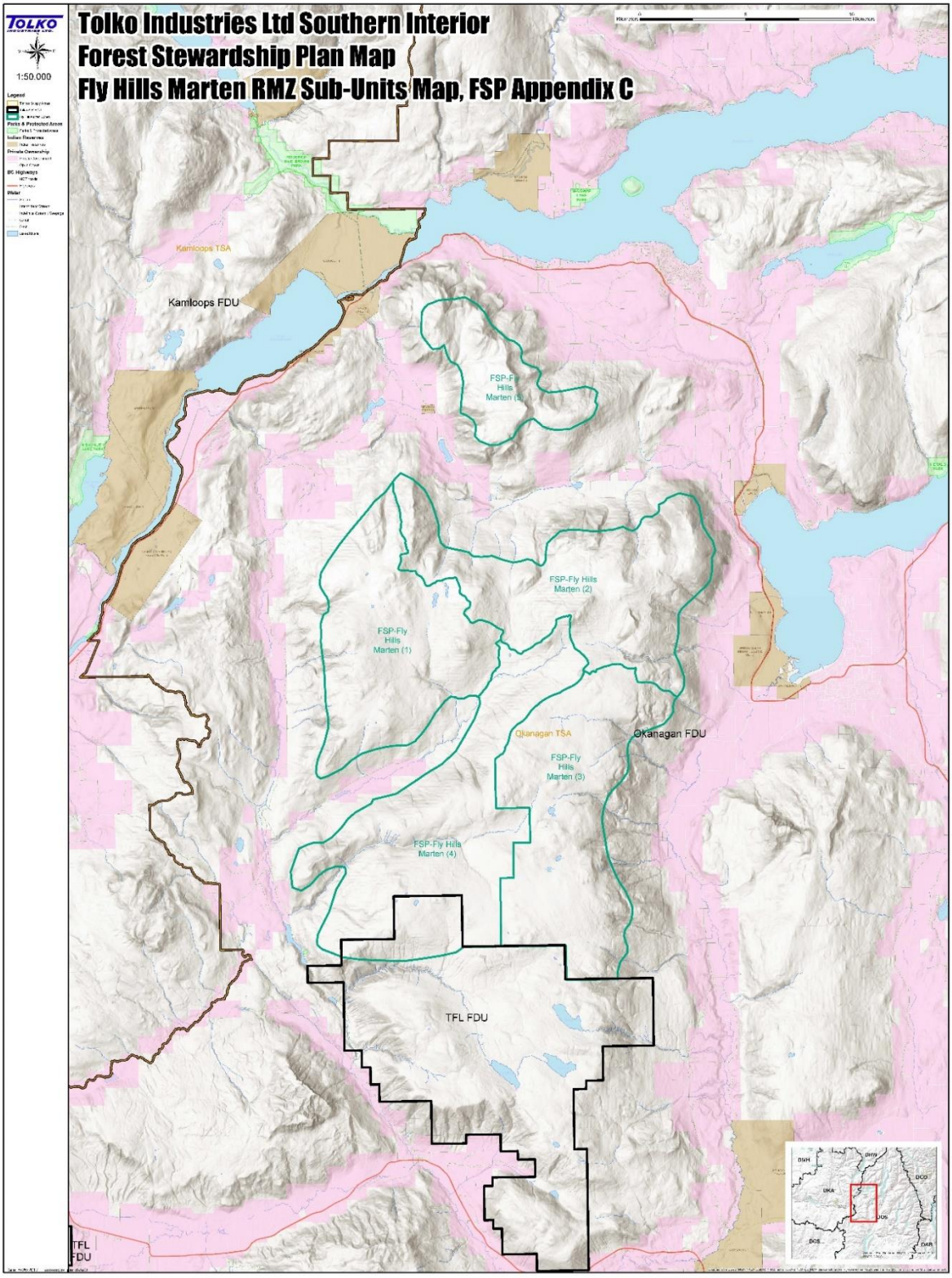
## *FDU* #6 – Boundary FDU Recreation Sites and Trails

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Taurus Lake Recreation Site | REC 2162 | The objective is to manage the Taurus Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| Little Fish Lake Recreation Site | REC 2163 | The objective is to manage the Little Fish Lake recreation site for a lakeside, modified roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car top boat launching and swimming will be available at the site. 1992-06-11 |
| Williamson Lake Recreation Site | REC 2164 | The objective is to manage the Williamson Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1994-03-17 |
| Jolly Creek Recreation Site | REC 2166 | The objective is to manage the Jolly Creek recreation site for a creekside, modified roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1992-06-11 |
| Damfino Creek Recreation Site | REC 2229 | The objective is to manage the Damfino Creek recreation site for a riverside, modified roaded recreation experience. The campsite will be maintained; the river and creek shorelines and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1992-06-11 |
| Lassie Lake Recreation Site | REC 2230 | The objective is to manage the Lassie Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1998-07-31 |
| Nevertouch Lake Recreation Site | REC 2231 | The objective is to manage the Nevertouch lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car top boat launching and swimming will be available at the site. 1980-12-11 |
| Copperkettle Lake Recreation Site | REC 2232 | The objective is to manage the Copperkettle Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1993-02-18 |
| Joan Lake Recreation Site | REC 2233 | The objective is to manage the Joan Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1996-12-16 |
| State Lake Recreation Site | REC 2234 | The objective is to manage the State Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. Access is by non-motorized trail. 1992-06-11 |
| Clark Lake Recreation site | REC 2236 | The objective is to manage the Clark Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1996-12-16 |
| Hoodoo Lake Recreation Site | REC2237 | The objective is to manage the Hoodoo Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural Vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| Lower Collier Lake Recreation Site | REC2238 | The objective is to manage the Lower Collier Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. Access is by non-motorized trail. 1993-02-18 |
| Upper Collier Lake Recreation Site | REC2239 | The objective is to manage the Upper Collier Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| | | picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1992 -06-11 |
| Thone Lake Recreation Site | REC2240 | The objective is to manage the Thone Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| State Creek Recreation Site | REC2241 | The objective is to manage the State Creek recreation site for a streamside, modified roaded recreation experience. The campsite will be maintained; the stream shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1998-07-31 |
| Kettle River Crossing Recreation Site | REC2242 | The objective is to manage the Kettle River Crossing recreation site for a riverside, modified roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1998-07-31 |
| Cup Lake Recreation Site | REC2243 | The objective is to manage the Cup Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| Sago Creek Recreation Site | REC2244 | The objective is to manage the Sago Creek recreation site for a creekside, modified roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, and picnicking, and will be available at the site. 1992-06-11 |
| Saunier Lake Recreation Site | REC2245 | The objective is to manage the Saunier Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| Sandrift Lake #2 Recreation Site | REC2246 | The objective is to manage the Sandrift Lake #2 recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1995-02-23 |
| Sandy Bend Recreation Site | REC2248 | The objective is to manage the Sandy Bend recreation site for a creekside, natural roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. 1992-06-11 |
| Maloney Lake Recreation Site | REC2249 | The objective is to manage the Maloney Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. Access is by non-motorized trail. 1992-06-11 |
| Five O'clock Lake Recreation Trail | REC2250 | The objective is to manage the Five O'Clock Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1993-02-18 |
| Kettle Canyon Recreation Site | REC2251 | The objective is to manage the Kettle Canyon recreation site for a riverside, modified roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1994-03-29 |
| Kettle Lakes Recreation Trails | REC2252 | The objective is to manage the Kettle Lakes recreation trail for a forested, semi-primitive, non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking and equestrian uses are available, no motorized uses permitted. 1996-12-16 |
| Canyon Creek Recreation Site | REC2295 | The objective is to manage the Canyon Creek recreation site for a riverside, modified roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. 1998-07-31 |
| State Lake Recreation Site | REC2296 | The objective is to manage the State Lake Road recreation site for a forested, modified roaded recreation experience. A campsite will be maintained; the natural vegetation will be conserved. Opportunities for camping, and vehicle parking will be available at the site. 1996-12-16 |
| Split Creek Recreation Site | REC2314 | The objective is to manage the Split Creek recreation site for a creekside, semi-primitive, motorized recreation experience. The creek shoreline and natural vegetation will be conserved. Opportunities for dispersed camping, and rustic picnicking, will be available at the site. Access is by non-motorized trail. 1996-12-16 |

| Recreation Site or Trail continued Under *FRPA* section 180 | Project No. | Recreation Site or Trail Objectives continued under *FRPA* section 181 |
|---|---|---|
| Pete Lake Recreation Site | REC2317 | The objective is to manage the Pete Lake recreation site for a lakeside, modified roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1992-06-11 |
| Moore Lake Recreation Site | REC2318 | The objective is to manage the Moore Lake recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1996-12-16 |
| Heart Lake Recreation Site | REC2320 | The objective is to manage the Heart Lake recreation site for a lakeside, modified roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for primitive camping will be available at the site. 1996-12-16 |
| Crystal Lake Recreation Site | REC2323 | The objective is to manage the Crystal Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1993-02-18 |
| Cleo Lake Recreation Site | REC2324 | The objective is to manage the Cleo Lake recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The campsite and trail will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site. Access is by non-motorized trail. 1992-06-11 |
| Little Fish Lake Recreation Trail | REC2326 | The objective is to manage the Little Fish Lake recreation trail for a forested, semi-primitive, non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use. 1996-12-16 |
| Canyon Flats Recreation Site | REC2328 | The objective is to manage the Canyon Flats recreation site for a riverside, modified roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will be available at the site. 1992-06-11 |
| Sandrift Lake #3 Recreation Site | REC2377 | The objective is to manage the Sandrift Lake #3 recreation site for a lakeside, natural roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, car-top boat launching and swimming will be available at the site. 1996-12-16 |
| Rhododendron Lake Recreation Site | REC2415 | The objective is to manage the Rhododendron Lake recreation site for a lakeside, semi-primitive. non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for dispersed camping, and rustic picnicking, will be available at the site. Access is by non-motorized trail. 1996-12-16 |
| Terraced Lakes Recreation Site | REC2417 | The objective is to manage the Terraced Lakes recreation site for a lakeside, semi-primitive, non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for dispersed camping, and rustic picnicking will be available at the site. Access is by non-motorized trail. 1996-12-16 |
| Losthorse Creek Recreation Site | REC5008 | The objective is to manage the Losthorse Creek recreation site for a riverside, modified roaded recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for dispersed camping and rustic picnicking, will be available at the site. 1996-12-16 |
| Blythe Lake Recreation Site | REC5012 | The objective is to manage the Blythe Lake recreation site for a lakeside, natural roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for dispersed recreational use will be available at the site. 1996-12-16 |
| Triple Lakes Recreation Site | REC5013 | The objective is to manage the Triple Lakes recreation site for a lakeside, semi-primitive, motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for primitive camping will be available at the site. 1996-12-16 |
| Franks Falls Recreation Site | REC5206 | The objective is to manage the Franks Falls recreation site for a creekside, semi-primitive, non-motorized recreation experience. The creek shoreline and natural vegetation will be conserved. Opportunities for primitive camping will be available at the site. 1996-12-16 |
| Beacon Lake Recreation Site | REC5714 | The objective is to manage the Beacon Lake recreation site for a natural roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for dispersed recreational use will be available at the site. 1996-12-16 |

## Appendix C – Fly Hills Marten RMZ Sub-Units Map



# Appendix D – Forest Stewardship Plan Maps by *FDU*

Individual *FDU* maps comprising Appendix D of this *FSP* are separate from this document due to file size limitations.

# Appendix E – Notice, Review and Comment

Notice, review and comment information comprising Appendix E of this *FSP* are separate from this document due to file format limitations.

# Appendix F – Amendment Log

| Amendment # | DDM Approval Required? (Y/N) | Amendment date | Approval / Effective date | Amendment Details | Review and Comment Period |
|---|---|---|---|---|---|
| 1 (minor portion) | N | 11/13/2020 | Effective 11/13/2020 | Clerical revisions to sections 1.1, 5.3.3.2, 5.4.1.1, 5.5.1, and 5.6.1. Minor amendment not requiring approval consistent with FRPA 20(1)(a). | N/A |
| 1 (approval required portion) | Y | Original 11/13/2020 Revised 06/30/2021 | 08/12/2021 | Identification of FDU 6 and addition of FDU 6 to applicable strategies. Refer to Amendment #1 cover letter. | 08/28/2020 to 10/31/2020 |
| 2 | Y | Original 01/30/2020 Revised 09/21/2021 | 12/31/2021 | Addition of strategies to address Fisheries Sensitive Watershed objectives in FDUs 1 and 2. (FSP sections 5.12.3, 5.12.4, 5.12.5 and 5.12.6) Refer to Amendment #2 cover letter. | 02/01/2020 to 03/31/2020 |
| 3 | N | 10/25/2021 | 10/25/2021 | Addition of UNB Licence A91687 to FDU 3 | N/A |
| 4 | N | 11/18/2021 | 11/18/2021 | Declare FDU 1 and 2 FSW Blocks and Roads | N/A |
| 5 | Y | Original 12/15/2021 Revised 01/17/2022 | 01/18/2022 | Alternate VQO strategy 5.19.3.2(3) specified for VLI polygons located in FDU 3 and 4 that have been impacted by the 2021 White Rock Lake and Mabel Complex wildfires | 12/01/2021 to 12/13/2021 |
| 6 | Y | 06/06/2022 | 08/16/2022 | FSP Amendment #6 applies the finalized Thompson Okanagan Regional Stocking Standards and variances (dated December 29, 2021) to FDUs #1 through #4. The stocking standards originally approved for FDU's #1 through #4 are effective until the approval date of FSP Amendment #6, at which point new cutblocks will have the Amendment #6 stocking standards applied to them. The original standards will continue to apply to cutblocks harvested under those standards, unless the FSP holder elects to apply the Amendment #6 standards to specific cutblocks via a site plan amendment and associated RESULTS submission.<br><br>Clerical revisions have been made to Appendix identification references in sections 7.4.2, 7.4.3, 7.4.4, and 7.5. Consistent with FRPA 20(1)(a), these revisions are minor in nature and do not require approval. | N/A |
| 7 | Y | 11/09/2022 | 12/14/2022 | Addition of Westbank First Nation Replaceable Forest Licence A91134 to FDU 3 | Exemption requested |

| Amendment # | DDM Approval Required? (Y/N) | Amendment date | Approval / Effective date | Amendment Details | Review and Comment Period |
|---|---|---|---|---|---|
| 8 | Y | 11/21/2022 | 03/06/2023 | FSP #684 Amendment #8 section 5.19.3.2(4) provides an alternate strategy to achieve established Visual Quality Objectives to the extent practicable within FDU 1-Kamloops, for specified scenic areas near the communities of Barriere and Littlefort, where timber has been of damaged, impacted or threatened by Douglas-fir beetle. | 10/28/2022 to 11/10/2022 |
| 9 | Y | 01/25/2023 | 02/16/2023 | Addition of Tolko FL A96465 to FDU 3 | Exemption Requested |
| 10 | Y | 03/28/2023 | 07/19/2023 | Addition of Yucwmenlucwu (“Caretakers of the Land”) LLP FLA98363 | Exemption Requested |
| 11 | N | 09/01/2023 | | Removal of *“without unduly reducing the supply of timber from British Columbia’s forests*” from the relevant FPPR objectives set by government. No changes to results or strategies were made and changes are effective upon submission as the change “does not materially change the intended results or strategies specified in the plan”. Includes objectives under Sections 5.2, 5.3.1, 5.3.3, 5.3.5, 5.3.6, 5.3.8, 5.3.9, .5.3.10, 5.3.11, 5.3.12, 5.5, 5.13 and 5.14 | N/A |
| 12 | N | 01/19/2024 | 01/19/2024 | Revisions to several section from FSP extension multi-District review including:<br>• Definitions – revised Legislated Planning Date and added to Primary Forest Activity<br>• Section 5.3.4.2 KHLPO Deer added suitable travel corridors<br>• Section 5.3.8.2 Spotted Bat added to definition of suitable trees<br>• Section 5.12 added FSW Objectives for Thompson Rivers and Cascades<br>• Section 5.15 Stand Level Biodiversity removed “unduly reducing”<br>• Section 5.19.4.1 KHLPO Visual Quality outside VSAs removed practicable<br>• Section 6.1.1Invasive Plants – updated to “Report Invasives BC app” and updated several plants to table 6.1.2b Priority Invasive Plants for all FDUs<br>• Appendix A text added to include FDU 2-4<br>Minor amendment not requiring approval consistent with FRPA 20(1)(a). | N/A |
| 13 | Y | 05/27/2024 | | Alternate VQO strategy 5.19.3.2(3) specified for VLI polygons located in FDU 1 that have been impacted by the 2023 Bush Creek East (K21633) wildfire. | 2/29/2024 To 3/15/2024 |