Gilbert Smith Forest Products Ltd.
Forest Stewardship Plan #855

Thompson/Okanagan Forest Region
Thompson Rivers Forest District
Kamloops Timber Supply Area

FSP Term: 5 Years (commencing 2023)

Preamble

This Forest Stewardship Plan (*FSP*) is a requirement of the Forest and Range Practices Act (*FRPA*). The *FSP* identifies a Forest Development Unit (*FDU*) within which timber harvesting and road construction activities may occur during the term of the plan. The purpose of the plan is specify results, strategies, measures and standards that are consistent to the extent *practicable* with resource value objectives set by government under *FRPA* and that are within the area of the *FDU*. Holders of this *FSP* must conduct cutblock harvesting, road construction and reforestation activities within the *FDU* consistent with the requirements of *FRPA* and this *FSP*.

This *FSP* replaces the Gilbert Smith Forest Products Ltd Forest Stewardship Plan #457.

Primary forest activities under this *FSP* apply to Crown land within the Kamloops *TSA*, excluding Indian Reserves, protected areas, Tree Farm Licence 35, Woodlots, and Community Forest Agreements.

The *FDU* boundaries for this *FSP* are indicated on the attached *FSP* maps.

Gilbert Smith Forest Products Ltd is certified to the Sustainable Forestry Initiative (SFI) Forest Management and Fiber Sourcing Standards. The results and strategies of this FSP conform to these standards which promote sustainable forest management, sustainable fiber sourcing and enhanced public engagement. GSFP actively participates in the Western Canada SFI implementation committee (WCSIC), which requires annual reporting on key indicators. SFI annual audits are conducted by a certified third party.

This *FSP* is composed of the following Parts and Appendices:

- **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 of the *FSP* term.
- **Application of the *FSP* (Part 3)** specifies which *licence*s and *agreement holders* the *FSP* applies to and provides for dis-application of a *licence* or *agreement holder* from the *FSP*.
- **Forest Development Units (Part 4)** specifies one *FDU* that is applicable to the *FSP*, displays an *FDU* Overview Map, and addresses the identification of required values within the *FDU*.
- **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, default practice requirements have been adopted as the result or strategy for the objective; in other instances, this plan either replaces the default practice requirements or proposes a result or strategy designed to be consistent with a government established objective where no default practice requirement exists. 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, 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); *FSP* Maps (Appendix C); and *FSP* Notice, Review and Comment (Appendix D).

Table of Contents

1 ADMINISTRATION AND INTERPRETATION

1.1 Definitions

For ease of recognition, terms that are defined in this FSP are presented in *italics* where they appear in the body of the *FSP*.
For the purposes of results, strategies or measures that follow in this *FSP*, unless this *FSP* specifies, or the context requires otherwise:

1. ***"adjacent"*** as de*fined 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". In regards to a road, "adjacent" means an area that is sufficiently close to a road that, due to its location, could directly impact on, or be impacted by, a forest practice carried out on that road;
2. ***"agreement"*** means a *Forest Act* agreement listed in Table 3.1, unless this *FSP* no longer applies to that agreement;
3. ***"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 Table 3.1, or any successor or assignee of that *agreement*, unless this *FSP* no longer applies to that agreement holder
4. **"*BEC*"** means Biogeoclimatic Ecosystem Classification;
5. **"*Commencement Date*"** means the date the Term of this *FSP* begins, as specified in Paragraph 2.3;
6. **"*CP*"** means Cutting Permit,
7. **"*Crown Managed Forest Land Base*"** or **"*CMFLB*"** means, consistent with its use in the Kamloops Timber Supply Area Timber Supply Review Data Package September 2015, the forested gross area of the Kamloops TSA, with the following land classification areas deducted:
    a) Land not managed by FLNRORD;
    b) Land not considered with TSA AAC;
    c) Non-forest areas (including water);
    d) Road trails, landings; and
    e) Transmission lines;
8. **"*Crown range*"** means, for the purposes of this *FSP*, Crown land in a range district, or Crown land leased under the Land Act;
9. **"*current*"** means, in the context of a Forest Stewardship Plan, Cutting Permit, Road Permit or Timber Supply Review, an approved document that has not expired or been replaced;
10. **"*cutblock*"** means an area in which a *Forest Act* licence holder:
    a) has harvested timber under a c*utting permit* or timber sale *licence*; or
    b) is authorized to harvest timber under a cutting permit or timber sale licence, and that harvesting has not yet occurred; unless
    c) the area is exempt from a Forest Stewardship Plan, as provided by *FPPR* section 4, if the area was harvested in accordance with *FRPA*; or
    d) the area was exempt from a Forest Development Plan, silviculture prescription or site plan if that area was harvested in accordance with the Forest Practices Code.
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 meters above the point of germination.
12. **"*established cutblock*"** means a *cutblock* that has been:
    a) harvested under an agreement to which this *FSP* applies;
    b) declared under this FSP;
    c) included within a *current* cutting permit issued under an agreement to which this *FSP* applies, whether or not the cutblock(s) within the cutting permit is subject to this *FSP*; or
    d) identified spatially in the BC Geographic Warehouse as a *cutblock*:
        (i) harvested under a timber sale *licence* or *major licence* to which this *FSP* does not apply; or
        (ii) 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*:

a) constructed under a *CP* or *RP* issued under or associated with a *licence* to which this *FSP* applies;
b) declared under this *FSP*;
c) 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*;
d) identified spatially in the BC Geographic Warehouse as a *road*:
   (i) constructed by a person other than a *holder* of this *FSP*; or
   (ii) included within a *CP* or *RP* issued in respect of a *Licence* to which this *FSP* does not apply.

14. **"*FDU*"** means forest development unit under this *FSP*;
15. **"*Forest Act*"** means the Forest Act R.S.B.C 1996, c. 157;
16. **"*forested area*"** means those areas defined as:
    a) "*Crown Managed Forest Land Base*", if located within the Kamloops TSA; or
    b) "*productive forest*" if located within TFL 18.
17. **"*FPC*"** means the Forest Practices Code of British Columbia Act RSBC 1996, c 159;
18. **"*FPPR*"** means the Forest Planning and Practices Regulation B.C. Reg. 14/2004;
19. **"*FRPA*"** or the "Act" means the Forest and Range Practices Act RSBC 2002, c.69, and applicable regulations made there under;
20. **"*FSP*"** means Forest Stewardship Plan;
21. **"*GSFP*"** means Gilbert Smith Forest Products Ltd;
22. **"*Government*"** means the government of British Columbia;
23. "***harvest area***" means the area where timber has been harvested from a *cutblock* or road right-of-way.
24. **"*holder*"** means FSP holders listed as *agreement holders* in Paragraph 3.1, or any successors or assignees of those agreements, unless this *FSP* no longer applies to those *agreement holders*;
25. "***initial silviculture activities"*** means, for the following activities on a *cutblock*, the activity that is completed last:
    a) site preparation;
    b) debris pile burning; or
    c) initial reforestation, including tree planting or direct seeding.
26. **"*KHLPO*"** means the Kamloops Higher Level Plan Order, established pursuant to section 93.4 of the Land Act, and dated Jan 8, 2009;
27. **"*KLRMP*"** means the Kamloops Land and Resources Management Plan;
28. **"*Legislated Planning Date*"** means:
    a) the date that is 4 months prior to the date this FSP is submitted for approval; or
    b) if an enactment or an objective established by Government requires that a date different that the date referred to in clause (a) be applied under this *FSP*, that different date;
29. *"**licence**"* means an agreement under the *Forest Act*;
30. *"**major licence**"* has the meaning given to it under the *Forest Act*;
31. ***"Minister"*** means the *Minister* responsible for the *Forest Act*;
32. **"MFOR" means** Ministry of Forests;
33. **"*net area to be reforested*"** or **"*NAR*"** has the meaning given to it under *FPPR* section 1(2);
34. ***"OGMA"*** means an Old Growth Management Area as defined in Paragraph 5.10.1.
35. **"*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;
36. ***"productive forest"*** means, consistent with its use in TFL 18 Management Plan #11 Timber Supply Analysis Data Package, September 2014, the gross area of TFL 18, with the following land classification areas deducted:
    a) private land - Moose Camp Lease 4;
    b) non-Forest and Non-Productive;
    c) existing roads.
37. **"*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;
38. "***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.

39. **"*reasonable*"** means generally considered to be fair, proper, just and suitable under the circumstances;
40. **"*road*"** has the meaning given to it in *FPPR* section1;
41. "***RP***" means Road Permit.
42. "***scenic area*"** has the meaning given to it under *FPPR* section 1;
43. **"*timeline*"** means, in regards to an information referral carried out by the *FSP holder* a First Nation or stakeholder as a requirement of a FSP result, strategy or measure, the period of time specified in the referral that provides an adequate opportunity for that First Nation or stakeholder to 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 a period of:
    a) 60 days for First Nations;
    b) 30 days for stakeholders; or
    c) an alternate period of time, where mutual agreement exists between the FSP holder and a First Nation or stakeholder.
44. **"*TSA*"** means timber supply area;
45. **"*VRI*"** means the BC *Government* 'Vegetation R*esource* Inventory', 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.

1.2 Relevant Date for Legislation and Objective References

In this *FSP*, unless this *FSP* specifies otherwise, reference to any of the following things means that thing as it existed on the *Legislated Planning Date*, unless it is repealed or cancelled, in which case the reference to that item does not apply to the *FSP*:

a) legislation;
b) a legally established objective;
c) a wildlife 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 a thing that is to be identified in a forest stewardship plan, referred to in *FPPR* section 14(3)(a) to (i); or
f) an order made by government.

1.3 Definition from Legislation

Words and phrases used in this *FSP* that are defined in the Forest Act, *FRPA*, or *FPPR* have the same meaning as those legal definitions were on the Legislative Planning Date, unless this *FSP* specifies, or the context requires otherwise.

1.4 Changes to Legislation

Subject to Paragraph 1.2, if a government agency or 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 it is 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 corporate.

1.6 Preamble, Headings and Background Information

In this *FSP* the preamble, headings and material presented as 'Background Information' are displayed for ease of reference only and are not to be construed as legal *FSP* content.

1.7 Appendices

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

1.8 Cancellation of an Objective, Notice or Order

Without limiting any other provision in this *FSP*, if any of the following things is cancelled, repealed or otherwise made to be no longer in effect, the *FSP* result or strategy pertaining to the thing no longer applies, effective the date it is cancelled, repealed or made to be no longer in effect:

a) a legally established objective;
b) a wildlife notice under *FPPR* section 7(2):
c) the designation of a species to which such a notice or established objective applies;
d) the establishment of a thing that is to be identified in a forest stewardship plan, referred to in *FPPR* section 14(3)(a) to (i); or
e) an order made by government.

1.9 Exemption under *FPPR* Section 7(3)

Without limiting Paragraph 1.8, if an exemption from the obligation to specify a result or strategy in relation to a wildlife objective is given under section 7(3) of the *FPPR*, and that exemption applies in respect of a species and an area to which a result or strategy in this *FSP* pertains, that result or strategy does not apply to the extent of the exemption.

1.10 Protection of Existing CPs and RPs

Except as expressly provided for under Paragraph 3.4, despite any other provision in this *FSP*, an area within a *FDU* is not subject to a result or strategy under Part 5, a measure under Part 6 or a stocking standard under Part 7 if:

a) the area is subject to a cutting permit or road permit that, under section 19(1) of the Act, is not affected by approval of this *FSP*;
b) section 7(1) of the Act provides that such an area is considered to have received the Minister's approval under section 16(1) of the Act for that area without being subject to such result, strategy, measure or stocking standard;
c) in respect of a result or strategy, section 2(2) of the Government Actions Regulation provides that the objective to which it pertains does not apply to the area;
d) in respect of a result or strategy, the objective to which that result or strategy pertains specifies that the objective does not apply to the area; or
e) *FRPA* otherwise provides that the area is not subject to such component of this *FSP*.

1.11 Authority from Government

Without limiting any other provision in this *FSP*, this *FSP* does not apply to a primary forest activity undertaken by *holder* of this *FSP* if and to the extent Government, with the consent of the *holder*, expressly authorizes such activities to be undertaken in a manner that differs from the requirements of this *FSP*.

1.12 No Prohibition of Activities Otherwise Permitted or Required

Despite any other provision in this *FSP*, nothing in this *FSP* prevents, affects or limits the *holder* of this *FSP* from carrying out an activity permitted by section 4(1.1) of the *FPPR*.

1.13 Exemptions under *FPPR* section 12

The *FSP holder* is exempt from the *FPPR* practice requirement sections specified in Table 1.13 by including an applicable result or strategy in this approved *FSP*:

Table 1.13 Exemptions

Paragraph in this *FSP*	*FPPR* section providing Exemption	*FPPR* Practice Requirement section to which the Exemption Applies
5.3.2 (1)	12.1(2)	Sections 47 to 51, 52(2) and 53.
5.8.1	12.1(3)	Sections 64 and 65
5.9.2	12.5(1)	Section 66
5.9.3	12.5(2)	Section 67

2 TERM

2.1 Date of Submission for Approval

The date this *FSP* is submitted to government for approval is April 9, 2020.

2.2 FSP 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 by the Minister.

2.3 Commencement of FSP 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 or road permit amendment granted:

a) on or after the date the term of this *FSP* commences, as specified in Paragraph 2.3;
b) within an *FDU* of this *FSP*; and
c) in respect of the *agreements* under the *Forest Act* and the *agreement holders* specified in Table 3.1; except that
d) consistent with *FPPR* section 14(4), the requirements of a previous *FSP* will apply to *cutblocks* that have been declared under that previous *FSP*, regardless of when the cutting permit for that *cutblock* is issued.

Table 3.1 *FSP* Agreement Holders and Agreements

***FDU* Name**	***TSA***	**Agreement Holder**	**Forest Act Agreement**
Kamloops	Kamloops	Gilbert Smith Forest Products Ltd	FL A18692
Kamloops	Kamloops	Gilbert Smith Forest Products Ltd	FL A89106
Kamloops	Kamloops	Gilbert Smith Forest Products Ltd	NRFL A88222
Kamloops	Kamloops	Gilbert Smith Forest Products Ltd	TL T0713
Kamloops	Kamloops	Simpcw Resources Ltd.	NRFL A88221
Kamloops	Kamloops	Simpcw Resources Ltd.	RFL A89991

3.2 Application of Results and Strategies

Results and strategies specified in this *FSP* apply to an area within a *FDU* that is subject to a cutting permit or road permit granted to a *holder* of this *FSP*. Notwithstanding the foregoing, in a proceeding in respect of an alleged *FSP* non-compliance, the proceeding applies only to the *FSP holder* who was granted the cutting permit or road permit that is the focus of the alleged *FSP* non-compliance.

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* 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 *current FSP* provision applies.

4 FOREST DEVELOPMENT UNITS

4.1 FDUs

For the purposes of the *FRPA* section 5(1)(a)(ii) and *FPPR* section 14(1)(a), the Kamloops *FDU* identified on the Forest Stewardship Plan Maps in Appendix D to this *FSP* applies to *agreement holders* and *agreements* specified in Table 3.1 of this FSP. For illustrative purposes, an FSP overview map is displayed below in FSP section 4.3.

This *FSP* is applicable the identified portions of Crown Land within the Kamloops *TSA* and the land area associated with TFL 18. The *FDU* does not include Indian Reserves, the land area associated with TFL 35, community forests, and woodlots.

Table 4.1 Forest Development Unit

***FDU* Name**	**Description**
Kamloops	Areas within the Kamloops *TSA* that are identified on the *FSP* maps, and the area associated with TFL 18.

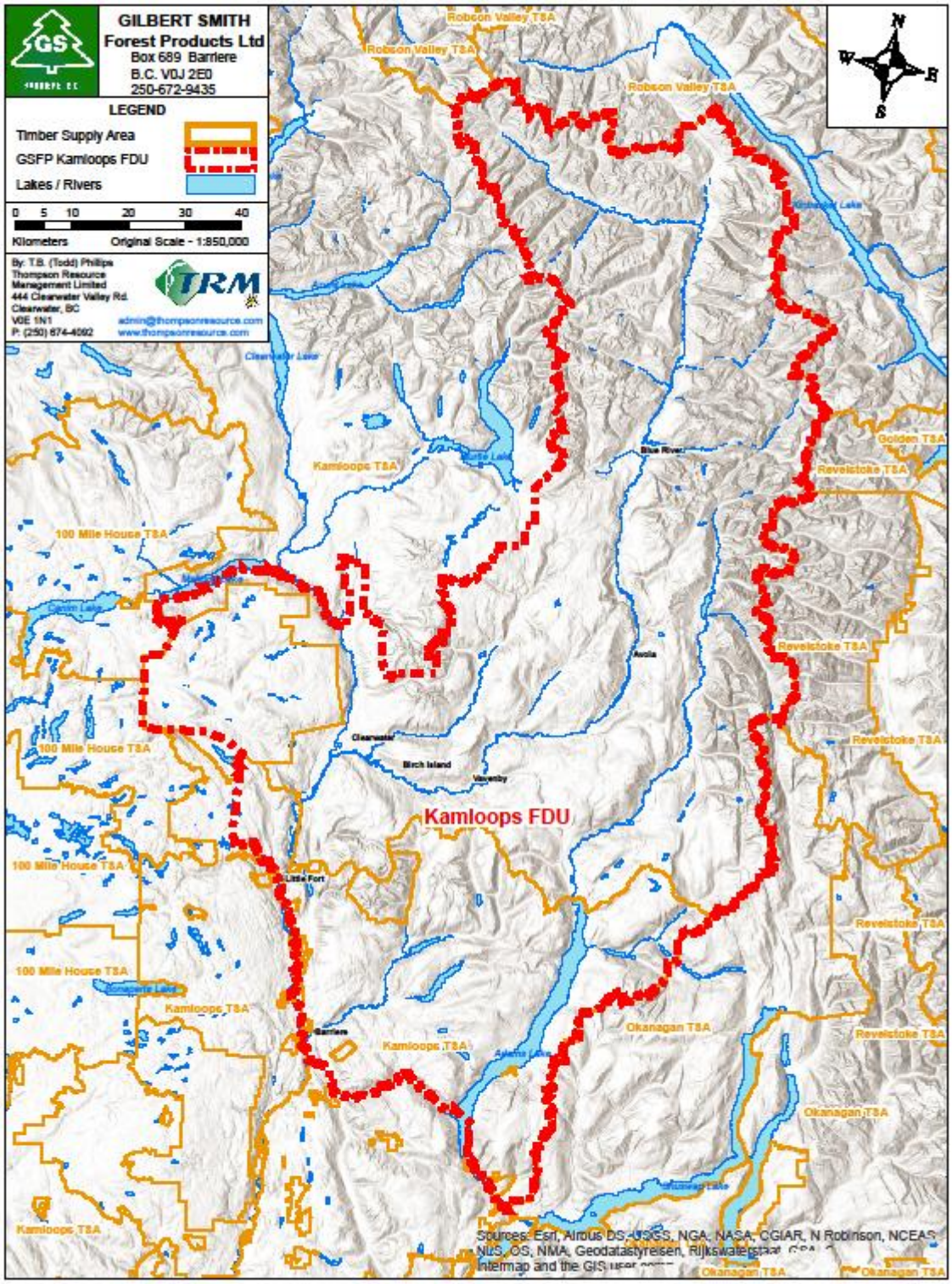
4.2 Identifying Required Values within Forest Development Units

For the purposes of *FPPR* sections 14(2) and (3), Table 4.2 and the Forest Stewardship Plan Maps in Appendix C to this *FSP* identify the things referred to in those sections that are in the *FDU* 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 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* Name**	***Licence***	***CP/RP***
Kamloops	A18692	*CPs* 66, 68, 72, 73, 599, 903, 906, 907, 908, 909
Kamloops	A18692	*RPs* R06105, R13486, R13487, R15236, R15240, R15241, R17456, R19269
Kamloops	A88222	*CPs G5, G7, G8,* G14, G15, G24
Kamloops	A88222	*RPs* R18841, R19522
Kamloops	A89106	*CPs* 67, 69, 80, 705, 706, 707, 904, 905
Kamloops	A89106	*RPs* R18584 R18692 R19806 R20349 R20398
Kamloops	T0713	*CPs* BB, CC
Kamloops	T0713	*RPs* R18347

4.3 *FDU* Overview Map



5 RESULTS AND STRATEGIES

5.1 Soils

Source of Objective: *FPPR* section 5 Soils
The objective set by government for soils is, without unduly reducing the supply of timber from British Columbia's forests, to conserve the productivity and the hydrologic function of soils.

5.1.1 Result or Strategy for Soils

Applicable *FDU*: Kamloops

For the objective for soils that is set out Section 5 of the *FPPR*, the *FSP holder* adopts *FPPR* section 35 (Soil disturbance limits) and *FPPR* section 36 (Permanent access structure limits), as those sections were on the *Legislated Planning Date* of this *FSP*, except that, where the *FSP holder* is constructing a temporary access structure on a *cutblock* that is less than 10 hectares *NAR* and it is not *practicable* to achieve the 5% limit specified in *FPPR* section 35(4)(b)(i), the *FSP holder* may cause soil disturbance that exceeds the limits specified in *FPPR* section 35(3) (a) or (b) if:

1. the *holder* does not exceed those limits by more than 10% of the area covered by the standards unit, excluding the area covered by a roadside work area; and
2. by the regeneration date, a sufficient amount of the area within the standards unit is rehabilitated such that the *FSP holder* is in compliance with the limits set out in *FPPR* section 35(3) (a) or (b).

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

5.2.1 *KHLPO* Mountain Goat

Source of Objective: *FPPR* section 7(1). The amount, distribution and attributes of habitat required for the winter survival of Mountain Goat in the Kamloops *TSA* was identified in a notice given under *FPPR* section 7(2). This notice requires that a *FSP* holder specify a *FSP* result or strategy for Mountain Goat in respect of the *FPPR* section 7(1) wildlife objective.
The objective set by government for wildlife is, without unduly reducing the supply of timber from British Columbia's forests, 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.
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*.

5.2.1.1 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, and shown on the maps in Appendix 1 to this *FSP*.

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

5.2.1.2 Result or Strategy for *KHLPO* Mountain Goat

Applicable *FDU*: Kamloops

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

1. prior to harvesting that cutblock or constructing that road, ensure that not more than 33% of the forested area within 200 meters of escape terrain will be less than 40 years of age, when the harvest areas of that cutblock, that road and any established cutblocks and established roads within that Mountain Goat winter range are combined;
2. not cause there to be less than 50% of the pre-harvest, non-lodgepole pine basal area retained within that *cutblock* at the conclusion of harvesting that *cutblock*, exclusive or road rights-of-way, landings or excavated trails; and
3. not harvest timber from *VRI* polygons that have a species composition of >50% Douglas-fir, combined with a height of at least 12 meters, and a canopy closure of at least 70%, unless that harvest is required for any of the following purposes, for which there is no practicable alternative:
    a) constructing a road, landing or excavated trail;
    b) creating a yarding corridor; or
    c) creating guyline tiebacks.

5.2.2 ***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. [b] Disperse the timber harvest throughout the winter range and spread it out evenly over the rotation. [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.

5.2.2.1 Definitions

For the purposes of this result or strategy:

"*critical deer winter range*" means the Crown land portion of:

a) the area 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; and
b) the area identified in the *KLRMP* as H11 on Figure 10: Special Resource Management, Habitat/Wildlife Management Areas, and referred to as Skull Wildlife Habitat.

"*suitable snow interception cover*" or **"*SIC*"** means a *VRI* polygon within *critical deer winter range* that:

a) is greater than 0.25 hectares in area;
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*; and
    (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 that is designated and managed internally by the *FSP holder,* with a maximum area of 800 hectares.

"***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*.

"*ridge*" means a topographic feature, either partially or entirely in a *cutblock*, consisting of a continuous elevated crest of land at least 50 meters slope distance in length, where the slope of the ground perpendicular to and downslope of both sides of the crest exceeds 30% for a slope distance of at least 20 meters.

"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*).

5.2.2.2 Result or Strategy for *KHLPO* Deer

Applicable *FDU*: Kamloops

For the objectives set by government for deer in the *KLRMP* area, where the *FSP holder* conducts a primary forest activity to which this FSP applies, that is located within a *critical deer winter range planning cell*, the *FSP holder* will ensure that:

1. prior to conducting that primary forest activity, not less than 25% of the *forested area* in the *planning cell* qualifies as *SIC,* when the *harvest area* of that primary forest activity is combined with the *harvest area*s of any *established cutblocks* and *established roads* within that *planning cell*;
2. where the primary forest activity is *cutblock* harvesting, at the conclusion of that cutblock harvesting:
    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) *deer forage* is retained within that *cutblock*, where present and *practicable*, unless retaining *deer forage* will prevent the *FSP holder* from achieving the obligation to establish a free growing stand within the *net area to be reforested* of that *cutblock*.

5.2.3 ***KHLPO*** Moose

Source of Objective: *KHLPO* section 2.1.12.2
[a] Maintain thermal and visual cover for moose, and enhance browse production. [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.

5.2.3.1 Definitions

For the purposes of this result or strategy:

"*critical moose winter range*" means the Crown land portion of 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.

"*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) a W1, W2, W3 or W5 wetland;
b) a L1-A, L1-B, L2, L3 or L4 classified lake; or
c) a deciduous leading *VRI* polygon that is at least 3.0 hectares in area.

"*moose management unit*" means an area consisting of a *moose habitat key element* and a 200-meter 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*).

5.2.3.2 Result or Strategy for *KHLPO* Moose

Applicable *FDU*: Kamloops

For 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 ensure that:

1. prior to submitting a cutting permit application for that *cutblock*, when the *harvest areas* of that *cutblock* and any established *cutblocks* within that *planning cell* are combined,
    a) at least 20% of the *forested area* within that *planning cell* is greater than or equal to 15 meters in height;
    b) no more than 50% of the *forested area* in a *moose management unit* is less than 5 meters in height;
2. at the conclusion of harvesting that *cutblock* and conducting silviculture treatments:
    a) no point within that *cutblock* is greater than 400 meters from an area that is at least 100 meters in width and has conifer leading forest cover greater than or equal to 5 meters in height, if less than 40% of the pre-harvest basal area is retained on that *cutblock*;
    b) *moose forage* is retained within that cutblock, where present and *practicable*, unless retaining *moose forage* will prevent the *FSP holder* from achieving the obligation to establish a free growing stand within the *net area to be reforested* of that *cutblock*.
3. no harvesting occurs in deciduous leading *VRI* polygons that are greater than 3 hectares in area, unless that harvest is required for one or more of the following purposes:
    a) constructing a road right-of-way, landing or excavated trail;
    b) creating a yarding corridor; or
    c) creating guyline tiebacks;
4. no new permanent *road* is constructed within a *moose management unit*, unless no *practicable* alternative *road* location exists; and
5. where new permanent *road* is constructed within a *moose management unit*, at the conclusion of that *road* construction and where *practicable*, a *visual screen* is retained along and/or between the new permanent *road* and the *moose habitat key element,* unless the safe use of the *road* warrants removal of the v*isual screen.*

5.2.4 Flammulated Owl

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*.

5.2.4.1 Result or Strategy for Flammulated Owl

Applicable *FDU*: Kamloops

For the objectives set by government for Flammulated Owl, the *FSP* strategy specified for Old Growth Management in Paragraph 5.10.1 [Result or Strategy for KLRMP Area Old Growth Management Areas] is the strategy for Flammulated Owl.

5.2.5 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.

5.2.5.1 Definitions

For the purposes of this result or strategy:

"*occurrence site*" means the mapped location of a Lewis's Woodpecker occurrence that is:

a) the Crown land location of a Lewis's Woodpecker occurrence, that is identified spatially:
   (i) as supporting information to the "BACKGROUND INFORMATION FOR WILDLIFE HABITAT FOR SPECIES AT RISK OBJECTIVES UNDER THE KAMLOOPS LAND AND RESOURCE MANAGEMENT PLAN, IN THE KAMLOOPS FOREST DISTRICT";
   (ii) by the B.C. Conservation Data Centre;

a) the location where a Lewis's Woodpecker is encountered during regular field activities and that location is confirmed by a *QP* as providing suitable nesting, security, or foraging habitat for Lewis's Woodpecker.

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

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

"*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.

5.2.5.2 Result or Strategy for Lewis's Woodpecker

Applicable *FDU*: Kamloops

For 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,* ensure that the following stems are retained:
      (i) at least six (6) dead standing *mature trees* or *stubs* per hectare of the largest diameter present on site;
      (ii) live ponderosa pine and black cottonwood trees great than 30 cm *dbh;* and
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*.

5.2.6 Spotted Bat

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.

5.2.6.1 Definitions

For the purposes of this result or strategy:

"*occurrence site*" means an area of Crown land that contains cliff features or talus slopes, that is:

a) identified as a Spotted Bat occurrence:
   (i) in the supporting information to the "BACKGROUND INFORMATION FOR WILDLIFE HABITAT FOR SPECIES AT RISK OBJECTIVES UNDER THE KAMLOOPS LAND AND RESOURCE MANAGEMENT PLAN, IN THE KAMLOOPS FOREST DISTRICT";
   (ii) by the B.C. Conservation Data Centre; or
b) confirmed by a QP as providing suitable habitat for Spotted Bat, where a Spotted Bat is encountered during regular forestry field activities.

"core area" means an area not less than 5 hectares, incorporating an *occurrence site*.

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

5.2.6.2 Result or Strategy for Spotted Bat

Applicable *FDU*: Kamloops

For 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 a *cutblock*;
   c) retain 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; 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*.

5.2.7 *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*.

5.2.7.1 Result or Strategy for *KHLPO* General Wildlife Objectives

Applicable *FDU*: Kamloops

For the general wildlife objectives set by government, the *FSP holder* will be achieve the results or carry out the strategies specified in:

1. Section 5.2 [Wildlife – FPPR section 7(1) Species at Risk and KHLPO Wildlife Objectives];
2. Paragraph 5.3.2 [Water, Fish, Wildlife and Biodiversity within Riparian Areas];
3. Paragraph 5.3.3 [Retention of Trees in a Riparian Management Zone];
4. Paragraph 5.8 [Wildlife and Biodiversity – Landscape Level];
5. Paragraph 5.9 [Wildlife and Biodiversity – Stand Level]; and
6. Paragraph 5.10 [Old Growth Management].

5.3 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, without unduly reducing the supply of timber from British Columbia's forests, to conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas.
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.

5.3.1 Definitions

For the purposes of these results or strategies:

"*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:

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

"*S6L*" means an S6 stream as defined in *FPPR* section 47(3b) [*Stream riparian classes*], where the year-round wetted stream width of that S6 stream is greater than 1.5m.

5.3.2 Result or Strategy for Water, Fish, Wildlife and Biodiversity within Riparian Areas

Applicable *FDU*: Kamloops

For 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. undertakes to comply with the following *FPPR* sections as those sections were on the *legislated planning date* of this *FSP,* consistent with the exemption provided through *FPPR* section 12.1(2):
    a) 47 [Stream Riparian Classes];
    b) 48 [Wetland Riparian Classes];
    c) 49 [Lake Riparian Classes];
    d) 50 [Restrictions in a Riparian Management Area];
    e) 51 [Restrictions in a Riparian Reserve Zone];
    f) 52(2) [Restrictions in a Riparian Management Zone];
    g) 53 [Temperature Sensitive Streams];
2. will ensure that, when harvesting or carrying out a silviculture treatment within a *cutblock* to which this *FSP* applies:
    a) the tracks or wheels of ground based machinery are not operated within 5 meters 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 meters 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 meters (slope distance) of the stream bank; and
    b) trees are felled and yarded or skidded away from S4, S5, S6 or S6L stream channels, where terrain constraints allow and it is *practicable* to do so; and
    c) a material adverse effect to stream channel stability does not result from the introduction of harvest related debris to a S4, S5, S6 or *S6L* stream.

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

Applicable *FDU*: Kamloops

For the *FPPR* section 12(3) requirement to specify a result or strategy that addresses retention of trees in a riparian management zone, at the conclusion of harvesting within a riparian management zone that is within a *cutblock* to which this *FSP* applies:

1. the *FSP holder* will not have caused *RMZ retention* to be less than specified in Table 5.3.3;
2. despite paragraph 1, the FSP holder may cause RMZ retention to be less than specified in Table 5.3.3, where:
    a) that harvesting is conducted to recover a tree that has been windthrown or damaged by fire, insects, disease or other causes, and the recovery of the tree will not have a material adverse impact on the riparian management zone; or
    b) the terrain and engineering constraints of the *cutblock* require that a cable or aerial harvest system be employed to safely harvest the *cutblock* and it is not *practicable* to achieve the specified *RMZ retention;* and
    c) the *FSP holder* ensures that the *RMZ retention* specified in Table 5.3.3 is reduced only to the extent necessary to recover the windthrown or damaged tree, or conduct the cable or aerial harvesting.

Table 5.3.3 Riparian Management Zone Tree Retention					
Riparian Class	Feature dimension	RMA width (m)	RRZ width (m)	RMZ width (m)	*RMZ Retention (%)*
S1-A stream[1]	≥100m	100	0	100	**50**
S1-B stream[1]	>20m	70	50	20	**50**
S2 stream[1]	5 - 20m	50	30	20	**20**
S3 stream[1]	1.5 - 4.9m	40	20	20	**20**
S4 stream[1]	<1.5m	30	0	30	**30**
S5 stream[1]	>3m	30	0	30	**30**
S6L stream[1]	1.6 - 3m	20	0	20	**20**
S6 stream[1]	<1.5m	20	0	20	**>0**
W1 wetland[2]	>5ha	50	10	40	**20**
W2 wetland[2]	1 - 5ha	30	10	20	**20**
W3 wetland[2]	1 - 5ha	30	0	30	**20**
W4 wetland[2]	0.25 - 1.0 ha	30	0	30	**20**
W5 wetland[2]	complexes	50	10	40	**20**
L1-A lake[3]	>1000ha	0	0	0	**N/A**
L1-B lake[3]	>5 - 1000ha	10	10	0	**N/A**
L2 lake[3]	1 – 5ha	30	10	20	**20**
L3 lake[3]	1 – 5ha	30	0	30	**20**
L4 lake[3]	0.25 - 1.0 ha	30	0	30	**20**

1 Refer to *FPPR* section 47 [Stream Riparian Classes] for definition details.

2 Refer to *FPPR* section 48 [Wetland Riparian Classes] for definition details.

3 Refer to *FPPR* section 49 [Lake Riparian Classes] for definition details.

5.4 *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).

5.4.1 Result or Strategy for *KHLPO* Riparian Management Areas and Angling Opportunities

Applicable *FDU*: Kamloops

For the objective set by government for Riparian Management Areas and Inland Fisheries, where the *FSP holder* harvests a *cutblock* or constructs a road to which the *FSP* applies, the *FSP holder* will:

1. not construct new *road* within 200 meters (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 meters (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 conducted consistent with the results or strategies specified in:

a) Section 5.2 [Wildlife – FPPR section 7(1) Species at Risk and KHLPO Wildlife Objectives];
b) Paragraph 5.3.3 [Result or Strategy for Retention of Trees in a Riparian Management Zone];
c) Paragraph 5.8.2 [Result or Strategy for Wildlife and Biodiversity – Landscape Level]; and
d) Paragraph 5.9.2 [Result or Strategy for Wildlife and Biodiversity – Stand Level].
e) Paragraph 5.11 [Visual Quality].

5.5 *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 licencees when development is proposed.

5.5.1 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.

"*water management mitigation strategy*" means a plan developed by a *qualified professional* to mitigate potential material adverse impacts to a *water licence,* which may result from the *FSP holders' primary forest activities*. The strategy will:

a) address the specific concerns communicated by the *water licence* holder within the *timeline* specified in a referral, to the extent that it is *practicable* to do so; and
b) specify:
    (i) what actions are to be undertaken;
    (ii) who is responsible for undertaking the actions;
    (iii) where the actions will occur; and
    (iv) when the actions will be completed.

5.5.2 Result or Strategy for *KHLPO* Water Management

Applicable *FDU*: Kamloops

For the objective set by government for water management, the *FSP holder* will ensure that:

1. prior to harvesting a *cutblock* or constructing a *road*:
    a) a *qualified professional* identifies *water licences* that may experience a material adverse impact to water values relevant to that licence as a result of that proposed *cutblock* harvesting or *road* construction;
    b) a referral is made to those identified water licencees which includes a request that the water licencee communicate specific concerns about potential impacts to their *water licence* that may result from the proposed activities;
    c) a *water management mitigation strategy* is developed;
    d) the *water management mitigation strategy* is communicated to *water licence* holders who responded to the referral; and
2. *primary forest activities* are conducted consistent with the *water management mitigation strategy*.

5.6 Fisheries Sensitive Watersheds

Source of Objectives: Order – Fisheries Sensitive Watershed, Thompson Rivers Forest District, given under authority of sections 14(1) and 14(2) of the Government Actions Regulation
1. For the Fisheries Sensitive Watersheds identified by this Order, the objectives are: a. Maintain channel stability and riparian function by retaining and protecting all mature timber and/or other natural vegetation on all active fluvial units on: i. fish streams; and ii. streams that are a direct tributary to fish streams. b. 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: i. fish streams; and ii. streams that are a direct tributary to fish streams, c. 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.

5.6.1 Definitions

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 the "Order – Fisheries Sensitive Watershed, Thompson Rivers Forest District", 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.

5.6.2 Result or Strategy for Fisheries Sensitive Watersheds – maintenance of channel stability and riparian function

Applicable *FDU*: Kamloops

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. primary forest activity is conducted consistent with the recommendations of the *active fluvial unit assessment.*

5.6.3 Result or Strategy for Fisheries Sensitive Watersheds – minimizing adverse sediment related effects to fish and fish streams

Applicable *FDU*: Kamloops

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.*

5.6.4 Result or Strategy for Fisheries Sensitive Watersheds – to protect the quantity and timing of annual and seasonal flows

Applicable *FDU*: Kamloops

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 possible;
2. not cause the ECA above snowline to exceed 25%.

5.7 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 that it does not unduly reduce the supply of timber from British Columbia's forests the cumulative hydrological effects of primary forest activities within the community watershed from resulting in (a) a material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks, or (b) the water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under (i) an enactment, or (ii) the licence pertaining to the waterworks.

5.7.1 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 licenced waterworks through which water is being diverted for human consumption.

"*community watershed assessment*" means a *qualified professional* analysis of the cumulative hydrological effects of primary forest activities within a *community watershed*, which includes:

a) a review of:
    (i) the 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;
    (ii) rates of hydrologic recovery within the watershed; and
    (iii) waterworks infrastructure;
b) identification of the potential for *primary forest activities* to result in:
    (i) a material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks; and
    (ii) 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; and
c) recommendations to mitigate those potential material adverse impacts identified in (b).

"relevant" means, in relation to an existing *community watershed assessment*, where a *qualified professional* has determined that the assessment recommendations continue to be valid.

5.7.2 Result or Strategy for Water in Community Watersheds

Applicable *FDU*: Kamloops

For the objective for water in *community watersheds*, that is set out in section 8.2 of the *FPPR*, for the portions of the *FDU* that fall within a *community watershed*, the *FSP holder*:

1. adopts *FPPR* sections 59 [Protecting Water Quality], 60(2) [Licenced Waterworks], and 61 [Excavated or Bladed Trails], as those sections were on the *legislated planning date* of this *FSP;*
2. will ensure that:
   a) prior to harvesting a *cutblock* or constructing a *road* within a *community watershed*:
      i. a *community watershed assessment* is carried out for that community watershed; or
      ii. where a community watershed assessment was previously completed for that community watershed, that assessment is *relevant*; and
   b) *primary forest activities* are conducted consistent with the recommendations of that *community watershed assessment*.

5.8 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, without unduly reducing the supply of timber from British Columbia's forests and 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.

5.8.1 Result or Strategy for Wildlife and Biodiversity – Landscape Level

Applicable *FDU*: Kamloops

For the objective for wildlife and biodiversity at the landscape level that is set out in *FPPR* Section 9, consistent with the exemption provided by *FPPR* section 12.1(3), the *FSP holder* undertakes to comply with *FPPR* section 64 [Maximum cutblock size] and *FPPR* section 65 [Harvesting adjacent to another cutblock], as those sections were on the *Legislated Planning Date* of this *FSP*.

5.9 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, without unduly reducing the supply of timber from British Columbia's forests, to retain wildlife trees.

5.9.1 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:

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

"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.

5.9.2 Result or Strategy for Wildlife and Biodiversity – Stand Level

Applicable *FDU*: Kamloops

For 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 [Wildlife Tree Retention], 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 that cutting permit will be at least 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 at least 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.

5.9.3 Result or Strategy for Restrictions on Harvesting Wildlife Tree Retention

Applicable *FDU*: Kamloops

For the objectives set by government for wildlife and biodiversity at the stand level that are 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 *WTR* 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 that 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 construct and use a skid trail or forwarding trail, where no alternative practicable option for the trail location exists; or
        (iv) to maintain a *road*; and
2. where the *FSP holder* harvests *WTR* for a purpose described in subsection 1b), prior to completing that *WTR* harvest, ensure that a *qualified professional* identifies in a Site Plan one or more replacement *WTR* that is *equivalent* to the portion of the *WTR* that is harvested.

5.10 ***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 units 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 diseases that pose a significant threat to forested areas external to the *OGMA*; b) to address safety hazards associated with primary forest activities; c) to provide for guyline clearances 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.

5.10.1 Result or Strategy for *KLRMP* Area Old Growth Management Areas

Applicable *FDU*: Kamloops

For the objectives set by government for Old Growth Management in the area covered by the Kamloops FDU, the *FSP holder* will conduct *primary forest activities* consistent with the objectives of *Land Act* section 93.4 Ministerial Order, *Old Growth Management Objectives for the Kamloops LRMP Area,* dated March 5, 2013.

5.11 Visual Quality

5.11.1 Definitions

For the purposes of these strategies:

"***scenic area***" as defined in *FPPR* section 1, means a scenic area

a) continued under section 180 (c) [grandparenting specified designations] of the Act, or
b) established under the Government Actions Regulation.

"***visually sensitive areas***" or "***VSA***" means the areas identified in Figure 5 of the KLRMP (July 28,1995).

"*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).

5.11.2 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*].
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.
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.

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

Applicable *FDU*: This strategy applies within the Kamloops *FDU* to *scenic areas* with a *VQO*, *visually sensitive areas* overlapped by *scenic areas* with a *VQO*, and non-visually sensitive areas overlapped by *scenic areas* with a *VQO.*

For the objectives set by government for visual quality in *scenic areas,* where the *FSP holder* harvests a cutblock or constructs a *road* to which this *FSP* applies that is within a *scenic area* with an established *visual quality objective,* the *FSP holder* will ensure that the *altered forest landscape* (including *established cutblocks* and *established roads*) resulting from the completed *cutblock* harvesting and road construction is consistent with the established *VQO*, applied in accordance with *FPPR* Section 1.1 [*Categories of Visually Altered Forest Landscape].*

5.11.3 Visual Quality in *Scenic Areas* without a *VQO*

Source of Objective: *FPPR* section 9.2 (2), (only applies to former Headwaters Forest District portion of the *FDU*.)
The objective set by government in relation to visual quality for a *scenic area*, that a) was established on or before October 24, 2002, and b) for which there is no visual quality objective is to ensure that the altered forest landscape for the *scenic area* c) in visual sensitivity class 1 is in either the preservation or retention category, d) in visual sensitivity class 2 is in either the retention or partial retention category, e) in visual sensitivity class 3 is in either the partial retention or modification category, f) in visual sensitivity class 4 is in either the partial retention or modification category, and g) in visual sensitivity class 5 is in either the modification or maximum modification category.
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.
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.

5.11.3.1 Result or Strategy for *KHLPO* Visual Quality in *Scenic Areas* without a *VQO*

Applicable *FDU*: This strategy applies within the Kamloops *FDU* to *scenic areas* without a *VQO*, *visually sensitive areas* overlapped by *scenic areas* without a *VQO*, and non-*visually sensitive areas* overlapped by *scenic areas* without a *VQO*.

For the objectives set by government for visual quality in *scenic areas* without a *VQO*, where the *FSP holder* harvests a *cutblock* or constructs a *road* to which this *FSP* applies that is located within a *scenic area* for which there is no legally established *visual quality objective,* the *FSP holder* will ensure that the *altered forest landscape,* (including *established cutblocks* and *established roads*) resulting from 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 [*Categories of Visually Altered Forest Landscape*].

5.11.4 *KHLPO* Visual Quality outside of Scenic Areas and 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.

5.11.4.1 Result or Strategy for *KHLPO* Visual Quality outside of Scenic Areas and Visually Sensitive Areas

Applicable *FDU*: This strategy applies within the Kamloops *FDU* to non-*visually sensitive areas* and *visually sensitive areas* which are not overlapped by *scenic areas.*

For the *KHLPO* landscape objective for visual quality outside of *visually sensitive areas,* the *FSP holder* will ensure that, at the conclusion of harvesting a *cutblock* or constructing a *road* to which this *FSP* applies that is located outside of a *scenic area*, 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) [*Categories of Visually Altered Forest Landscape*].

5.12 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 (a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and (b) Not regulated under the *Heritage Conservation Act*.

5.12.1 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 by 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.

5.12.2 Result or Strategy for Cultural Heritage Resources

Applicable *FDU*: Kamloops

For 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 with *potentially affected First Nations*, ensuring existing *CHR evaluation protocols* are followed where they exist, and request that the *potentially affected First Nations*:
        (i) indicate the presence, relative value and abundance of a *CHR*; and
        (ii) identify 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 *cutblock* harvesting or *road* construction, modify or stop these activities to the extent necessary to protect the *CHR*, share information about the *CHR* encounter with the *potentially affected First Nation*, and where that *potentially affected First Nation* indicates that a *CHR evaluation* is required, carry out the strategy beginning at paragraph 1b).

5.13 *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.

5.13.1 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, derived from the process described in on page 5 of the "AOA Process for FDP in the Kamloops *TSA*, Version April 29, 2002":

1. 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;

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;
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
4. 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 mitigation studies directed at retrieving resource values prior to impact.

"***participating First Nations****"* means those First Nations communities who have identified an interest within an area where cutblock harvesting or road construction is proposed by the FSP holder. The sources of a First Nation's identified interest are:

a) 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;
b) the Consultative Area Database (or equivalent successor database maintained the provincial government); or
c) where a First Nation has expressed that interest directly with the FSP holder.

5.13.2 Result or Strategy for *KHLPO* Archaeological Assessments

Applicable *FDU*: Kamloops

For 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 the *FDU* in a High or Medium Potential area as identified in the *AOA model*, the *FSP holder* will ensure that:

1. prior to harvesting that *cutblock* or constructing that *road*, *archaeological assessments* are undertaken 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; and
2. If a previously unidentified potential archaeological resource is encountered while conducting *primary forest activities*:
    a) those activities are modified or stopped to the extent necessary to protect that potential archaeological resource; and
    b) information about the archaeological resource feature is shared with the *participating First Nation;* and
    c) an *archaeological assessment* of that feature is carried out where that First Nation indicates that an assessment is required.

5.14 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.

5.14.1 Definitions

For the purposes of this result or strategy:

"*objective*" means the legally established objectives that apply to legally designated recreation sites and trails in the Kamloops FDU. The legal sites, trails and objectives to which this FSP strategy applies are presented in Appendix B of this FSP.
The locations of these sites and trails are identified spatially on files held in the B.C. Geographic Warehouse.

"*site*" means a recreation site or area:

a) located within the *FDU*;
b) legally designated under *FPC;*
c) continued under *FRPA* section 180; and
d) that has a legal *objective* continued under *FRPA* section 181.

"*trail*" means a recreation trail:

a) located within the *FDU*;
b) legally designated under *FPC;*
c) continued under *FRPA* section 180; and
d) that has a legal *objective* continued under *FRPA* section 181.

5.14.2 Result or Strategy for Interpretive Forest Sites, Recreation Sites or Recreation Trails

Applicable *FDU*: Kamloops

For the objectives set by government for interpretive forest *sites*, recreation *sites* and recreation *trails*, and in relation to *cutblock* harvesting or road construction to which this *FSP* applies, the *FSP holder* will ensure that, where a *site* or *trail* legal *objective* refers to providing opportunity for:

1. a semi-primitive motorized recreation experience:
    a) no *cutblock* harvesting or new road construction is conducted within that *site*;
    b) no *cutblock* harvesting is conducted within 50 meters of that *trail*;
    c) no new road is constructed within 50 meters of that *trail*, unless:
        (i) there is no *practicable* alternate location for that road; or
        (ii) a *trail* crossing is required to access timber beyond that *trail*; and
    d) if a new road is constructed across that *trail*, access to that *trail* is not restricted at the intersection of that *trail* and the road right-of-way, except for a temporary restriction to construct or maintain that road;
2. a natural roaded recreation experience:
    a) at the conclusion of harvesting a *cutblock* within that site, not less than 40% of the pre-harvest basal area is retained within that *cutblock*;
    b) no new road is constructed within 50 meters of that *trail*, unless:
        (i) there is no *practicable* alternate location for that road; or
        (ii) a *trail* crossing is required to access timber beyond that *trail*; and
    c) if a new road is constructed across that *trail*, access to that *trail* is not restricted at the intersection of that *trail* and the road right-of-way, except for a temporary restriction to construct or maintain that road;
3. a modified roaded recreation experience:

a) within a *cutblock*, and where applicable, achieve the results or carry out the strategies in *FSP* sections:
    (i) 5.9 [Wildlife and Biodiversity - Stand Level];
    (ii) 5.11 [Visual Quality];
b) if a new road is constructed across that *trail*, access to that *trail* is not restricted at the intersection of that *trail* and the road right-of-way, except for a temporary restriction to construct or maintain that road; and

4. prior to harvesting a *cutblock* or constructing a road within 50 meters of a *site* or *trail*, receive authorization from a recreation officer to use the recreation *site*, recreation *trail* or interpretive forest *site* for an industrial activity, consistent with the requirements of *Forest Recreation Regulation* Section 16.

5.15 *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.

5.15.1 Definitions

For the purpose of this result or strategy:

"***recreation and tourism RMZ***" means the areas identified on *KLRMP Figure 11: Special Resource Management Recreation and Tourism* as Recreation and Tourism Resource Management Zones, and listed below in Table 5.15.1:

Table 5.15.1 Recreation and Tourism Resource Management Zones

R1,H2 Allan Creek	R5,H5 Clemina	R9 Taweel
R2,H3 Bischoff Lakes	R6,W7 Lac Le Jeune	R10 Thompson Rivers
R3 Blustery	R7,H7 North Thompson Glacier	R11 Tod Mountain
R4,H4 Bone	R8,H8 Smoke	R12 Tod Mountain (controlled rec area)

5.15.2 Result or Strategy for *KHLPO* Recreation and Tourism Zones

Applicable *FDU*: Kamloops

For the objective set by government for recreation and tourism zones, where government approves an access management plan or process for a *recreation and tourism RMZ*, the *FSP holder* will conduct r*oad* construction, maintenance and deactivation within that *recreation and tourism RMZ* consistent with the direction provided in that approved access management plan or process, to the extent that it is *practicable* to do so.

5.16 *KHLPO* Remote Recreation and Tourism Zones

Source of Objective: *KHLPO* section 2.6.1.4
Extractive uses are permitted providing they are consistent with the objectives of the resource management zone.

5.16.1 Definitions

For the purpose of this result or strategy:

"*remote recreation and tourism RMZ*" means the following areas identified on *KLRMP Figure 11: Special Resource Management Recreation and Tourism* 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.

5.16.2 Result or Strategy for *KHLPO* Remote Recreation and Tourism Zones

Applicable *FDU*: Kamloops

For the objective set by government for remote recreation and tourism zones, where the *FSP holder* harvests a *cutblock* or constructs a road within a *remote recreation and tourism RMZ*, the *FSP holder* will ensure that:

1. at the conclusion of harvesting that *cutblock*, the structural characteristics of that *cutblock* resemble an opening that would result from a natural disturbance, to the extent that it is *practicable* to do so; and
2. access is managed consistent with the strategy specified in *FSP* Paragraph 5.15.2 [Result or Strategy for KHLPO Recreation and Tourism Zones].

5.17 *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.

5.17.1 Definitions

For the purpose of this result or strategy:

"*settlement resource management zones*" means the areas identified on *KLRMP Figure 7: Settlement Resource Management Zones* labeled as "Settlement" and listed in Table 5.17.1 below:

Table 5.17.1 *Settlement Resource Management Zones*			
Ashcroft	Campbell Creek	Lac Le Jeune	Paul Lake
Ashcroft Manor	Cherry Creek	Logan Lake	Pinantan
Avola	City of Kamloops	Louis Creek	Pritchard
Barriere	Clearwater	McLure	Savona
Blackpool	Duck Range	Martin Prairie	Six Mile
Blue River	East Clearwater	Mesa Vista	Sullivan (Knouff) Lake
Boston Flats	Heffley Creek	Monte Creek	Sunshine Valley
Cache Creek	Knutsford	North of Heffley Creek	Vinsula/Black Pines

5.17.2 Result or Strategy for *KHLPO* Settlement Resource Management Zones

Applicable *FDU*: Kamloops

For 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*, and where that settlement *resource management zone* is located within the Kamloops FDU, the *FSP holder* will conduct *cutblock* harvesting and *road* construction within that *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.

5.18 *KHLPO* Range

Source of Objective: *KHLPO* section 2.1.10
Minimize tree/grass/cattle conflicts through integrated management practices.

5.18.1 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 that proposed *cutblock* harvesting, *road* construction, or *road deactivation project*;
b) includes a request that the *range agreement* holder or the Ministry responsible for range identify potential conflicts between cattle management and the proposed *cutblock* harvesting, *road* construction, or *road deactivation project*; 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*, with the goal of minimizing potential conflicts between cattle management activities and *primary forest activities,* by undertaking integrated management practices such as installing or constructing range improvements, timing operations, managing cattle and equipment access and modifying reforestation practices. The plan 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.

5.18.2 Result or Strategy for *KHLPO* Range

Applicable *FDU*: Kamloops

For 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* to which this *FSP* applies, that is located within *Crown range*:
    a) conduct a *range referral* with the holder of a *range agreement* on that *Crown range* or the Ministry responsible for range, where a *range agreement* is not in place on that *Crown range*;
    b) where the *range agreement* holder or Ministry responsible for range responds within the *timeline* specified in the *range referral* and identifies potential cattle management and primary forest activity conflicts, ensure that a *forest and range integrated practices plan* is developed which addresses the potential conflicts identified, to the extent that it is *practicable* to do so;
    c) communicate the *forest and range integrated practices plan* to the *range agreement* holder or Ministry responsible for range, as the case may be; and
2. where the *FSP holder* is identified within the *forest and range integrated practices plan* as being responsible for undertaking a practice, ensure that the practice is undertaken consistent with the *forest and range integrated practices plan.*

6 MEASURES

6.1 Invasive Plants

Source of Legal Requirements:
FRPA section 47 A person carrying out a forest practice or a range practice must carry out measures that are (a) specified in the applicable operational plan, or (b) authorized by the *minister* to prevent the introduction or spread of prescribed species of invasive plants. *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.

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.

"*Invasive Alien Plant Program*" or "***IAPP***" means the invasive plant management program or successor, 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 the *FDU* to which this *FSP* applies, and conducting any of the following activities:

a) *road* and *cutblock* development;
b) *cutblock* harvesting and *road* construction supervision;
c) silviculture surveys; and
d) *road* inspections.

*"**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*: Kamloops

For 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 *invasive plants* within one year 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 an *invasive plant* through the Report Invasives application within 30 days of that new infestation being identified; (https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/invasive-species/reporting-invasive-species);
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 meters of the *cutblock* or *road*;
4. contractors and *personnel*:
   a) visually inspect for and manually remove any vegetation from vehicles, mechanized equipment, culverts, bridges and cattle guards prior to transport to or from a *road* or *cutblock* to which this *FSP* applies;

b) do not park vehicles or equipment or locate log decks on *invasive plant* infestations, to the extent that it is *practicable* to do so;

5. *grass seed* is applied to areas of exposed mineral soil that are the result of the *FSP* holders' road construction or timber harvesting activities to which this *FSP* applies, based on the criteria specified in Table 6.1.2;
6. despite subparagraph 5, *grass seed* application is not required on areas where doing so is unlikely to increase vegetative cover, due to the exposure site consisting of:
   a) compact glacial till;
   b) rock;
   c) steep *road* cuts where *grass seed* will not adhere; or
   d) some other substrate that is unsuitable for supporting vegetation*;*
7. if, within 12 months of the initial *grass seed* application on an area it is identified during a road inspection that the area is *insufficiently revegetated*, then *grass seed* will be applied to that area one additional time, during the growing season of that road inspection or the spring of the next growing season; and
8. road fill and erosion control materials are inspected and confirmed to be free of invasive plants, prior to transporting and using those materials.

Table 6.1.2 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
Permanent *road* construction, deactivation	*Road* cut slopes, fill slopes, ditch lines, end haul waste sites and permanent landings	within one year of exposure and during the first available spring or fall, where *practicable*
Timber Harvesting	Excavated trails, yarding and skidding corridors, and debris pile burn areas, that are at least 0.01 ha of contiguous area, except areas that the *FSP holder* is contractually obligated to reforest	within one year of exposure and during the first available spring or fall, where *practicable*

6.2 Natural Range Barriers

Source of Legal Requirements:

FRPA section 48

A person carrying out

(a) a forest practice, or
(b) a range practice that directly or indirectly removes or renders ineffective a natural range barrier must carry out measures that are
(c) specified in an operational plan for the area, or
(d) authorized by the *minister* to mitigate the removal or the ineffectiveness of the natural range barrier.

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.

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;
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;
   (iii) preferred timing to undertake the *mitigation actions;* and
c) specifies a *timeline* to respond to the referral.

"*mitigation action*" means an action that has the purpose replacing a *natural range barrier* that has been removed or rendered ineffective by the *FSP* holder's *cutblock* harvesting or *road* construction, that includes:

a) installing range development structures that are:
   (i) subject to authorization by the minister;
   (ii) constructed or installed consistent with *MFOR* standards; and
   (iii) eligible to be cost captured in an upcoming Cutting Permit appraisal; or
b) adjusting *cutblock* boundaries or *road* locations prior to cutting permit approval.

"*NRB mitigation strategy*" is a plan developed by a *qualified professional* to mitigate 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*: Kamloops

For 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 a *NRB referral* with respect to the proposed *cutblock* harvesting or *road* construction with the potentially affected *range agreement holder* on that *Crown range* or the Ministry responsible for range, where a *range agreement* is not in place on that *Crown range*;
   b) where that *range agreement holder* or 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, ensure that a *NRB mitigation strategy* is developed that incorporates the information communicated to the *FSP holder*, to the extent that it is *practicable* to do so;
   c) communicate the *NRB mitigation strategy* to the *range agreement holder;* or Ministry responsible for range, as the case may be; and
2. where the *FSP holder* is identified within the *NRB mitigation strategy* as being responsible for 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* sections 16, 44, and 45; *FRPA* section 29(1).
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*. For the purposes of section 16(1) of the *FPPR* and section 29(1) of *FRPA*, section 44(1) of the *FPPR* will apply to each area to which this *FSP* applies where a *holder* of this *FSP* is required to establish a free growing stand. Unless indicated otherwise within this *FSP*, generally accepted silviculture survey rules will apply for blocks with stocking obligations under this *FSP*.

7.1 General Standards and Variances

This *FSP* adopts the Thompson Okanagan Region General Standards and Variances and applies them to both the Kamloops and Robson FDU's. These General Standards and Variances are found in *FSP* Appendix A-1.

7.1.1 Kamloops FDU 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 the Kamloops FDU, 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 Appendix A stocking standards tables.

7.2 Kamloops FDU Stocking Standards

Within the Kamloops FDU, this *FSP* adopts the Thompson Okanagan Regional Stocking Standards, dated September 9, 2021.

The Kamloops FDU Even-aged Stocking Standards are presented in *FSP* Appendix A-2.

The Kamloops FDU Uneven-aged Stocking Standards are presented in *FSP* Appendix A-3.

The Stocking Standards footnotes, integral to the standards, are presented in *FSP* Appendix A-4.

8 SIGNATURES

8.1 Signature of Preparing Forester

Preparing Forester

I certify that the work herein has been carried out to the standards expected of a member of the Association of British Columbia Forest Professionals.

J. Dan Roberts, RPF April 6, 2020

8.2 Signature of Person Required to Prepare the Plan

Authorized Licencee Signature

Corporate representative authorized to sign on behalf of Gilbert Smith Forest Products Ltd.

Craig Hewlett, RFT
Forestry Manager April 8, 2020

APPENDICES

Appendix A – Stocking Standards

Appendix A-1 General Standards and Variances – FSP #855 Kamloops FDU

The Thompson Okanagan Region Stocking Standards and Variances dated December 9, 2021 apply to the Kamloops FDU.

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-2 Kamloops FDU Even-aged Stocking Standards

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[201 208] 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
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 Ba13 201 202	Hw14 32 Cw14 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	Bl28 208 Sx13 Pw31	1000	500	400	4	20	1.0	Pl-1.4, Others-0.8
ESSFdh2 (use classification for ESSFmw)	03	1065719	Pl34 201 Fd32	Sx28 Bl28 208 Pw31 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	Fd14 32 Pl34 201 Bl13 201 208 Sx13	Pw31 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 Ba13 201 202	Hw14 32 Cw14 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 Cw32 Hw32	1200	700	600	4	20	2.0	All-1.0
ESSFdh2 (use classification for ESSFmw)	07	1065723	Bl 201 208 Sx Ba 32 202 Cw32	Hw32 Fd32 Pw17	1200	700	600	4	20	2.0	All-1.0
ESSFdh2 (use classification for ESSFmw)	08	1065724	Sx1 Bl1 201 208 Pl1 34 201	Hw1 32 Cw1 32	1000	500	400	4	20	1.0	All-0.8
ESSFdv1 (use classification for ESSFdv)	01	1065756	Sx Bl 201 208	Pl Pa31	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdv1 (use classification for ESSFdv)	02	1065725	Pl Pa31	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
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
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
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
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
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	
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
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
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	15	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	15	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	15	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	15	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	15	2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0
ICHdw4	111	1065943	Sx[1] Cw[1,32]	Hw[1,32] Pw[31]	1000	500	400	4	15	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	15	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
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
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
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
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.O 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
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
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
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
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
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
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
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 208Pa 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 Bl201 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	Fd14,32,203 Lw14,32,203 Sx	Bl204,208 Pl200	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 Py9,14,203	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 Py9,14,203	Pl200	1000	500	400	7	20	2.0	Fd 0.8 Lw 1.4 Py 0.8 Pl 1.4
MSdm1	104	1069878	Pl Fd32 Lw32	Bl208 Sx28	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	Pl201 Sx Bl201,208	Fd14,32 Lw14,32	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	Bl201,208 Pl201 Sx	Fd14,32 Lw14,32	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	Cw32 Lw32 Sx	Bl208 Fd14,32 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	Bl201,208 Sx	Fd14,32 Lw14,32 Pl	1200	700	600	4	20	2.0	Bl 1.0 Sx 1.0 Fd 1.0 Lw 1.4 Pl 1.4
MSdm1	113	1069883	Bl1,201,208 Sx1	Pl1	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 Fd14	Py14 203 Bl13 204 208	600	400	400	4	20	1.0	Pl-1.0, Others-0.6
MSdm2	103	1066195	Fd32 Pl	Lw 32 203 Py9 203 Bl10 13 204 208 Sx10,13 204	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm2	104	1066196	Fd9 14 32 Pl Sx10 13 28	Bl 10 13 28 208 Lw14 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	Fd9,14,32 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 Lw14 32 203	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	112	1066201	Sx Bl201 208	Pl Fd 9 14 32 Lw9 14 32 203	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	113	1066202	Pl1 Sx1	Bl1 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 Fd14 32 Bl 201 208	Lw14 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 Fd14	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	Fd14 Pl	Bl10 13 204 208 Sx10 13 204 Lw 32 203 Py 14 203	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm3 (use classification for MSdm2 in LMH23)	04	1066205	Fd14 32 Pl Sx13	Bl13 208 Lw14 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 Lw14 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 Bl201 208	Pl 200 Fd14 32 Lw14 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	Pl1 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
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
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
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
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 A-3 Kamloops FDU Uneven-aged Stocking Standards

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	
			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	
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	

			Fd Cw Sx Lw Pl		2	800	400	300	2.0	Pl Lw (1.6), Fd (1.0), Others (0.8)
			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	
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	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	

for IDFdk2 in LMH23)			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	
			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	
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	
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	
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	04 moist sites with devil's club	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	
			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	
			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	3	1065283	Py Fd		1	200	100	100	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	125	2.0	

for IDFxh2 in LMH23)			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	
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	
			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	
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	
			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 1.6	
			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 1.6	
			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 2.0	

			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	
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 2	
			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	
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	
			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	
			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	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	

for MSdm2 in LMH23)			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	
			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	

			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	
			Pl[1] Sx[1]	Bl[1 208]	3	800	400	300	1.0	
			Pl[1] Sx[1]	Bl[1 208]	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	
			Pl[1] Sx[1]	Bl[1 208]	3	800	400	300	1.0	
			Pl[1] Sx[1]	Bl[1 208]	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 Fd[9,14,32] Sx[10,13]	Bl[10,13] Lw [9 14, 32 203]	3	1000	500	400	2.0	
			Pl Fd[9,14,32] Sx[10,13]	Bl[10,13] 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 Fd[9,14 32]	Bl[13 28 208 204]	3	800	400	300	1.0	
			Pl Fd[9,14 32]	Bl[13 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 Fd[9,14 32]	Sx[10,13,28]	3	800	400	300	2.0	
			Pl Fd[9,14 32]	Sx[10,13,28]	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	
			Pl[201] Fd[32]	Py[14 203] Lw [9 14 32 203]	3	800	400	300	2.0	
			Pl[201] Fd[32]	Py[14 203] 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	Sx[10,13]Fd[9,14, 32] Lw[9 14 32 203]	3	1000	500	400	2.0	
			Pl	Sx[10,13]Fd[9,14, 32] Lw[9 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)
			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	
MSxk3 (use classification for MSxk)	6	1065370	Pl Sx Bl Fd		1	600	300	250	0.0	Pl (1.4), Others (0.8)
			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	
	8	1065371	Pl Sx Bl		1	600	300	250	0.0	Pl (1.4), Others (0.8)

MSxk3 (use classification for MSxk)			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-4 Stocking Standards Footnotes

For both the Kamloops and Robson FDU's, this FSP adopts the stocking standards footnotes presented in the Reference Guide for Forest Development Plan Stocking Standards, September 7, 2021.

"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: • where there is > 50% Pl in the pre-harvest stand, Pl can be moved to preferred; • 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. 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: • apical dominance > 1 (as measured by comparing ratio of leader height to length of most recent branch whorl) at free growing • 75% live crown; • no scars, forks, crooks, or sweeps, and; • where it is < 1.5 m ht at time of harvest.

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* and apply to this FSP. 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.

Kamloops *FDU* 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 Objectives: 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

Recreation Site or Trail continued Under *FRPA* section 180	Project No. 16660-20/	Recreation Site or Trail Objectives continued under *FRPA* section 181
		Service *road* (suitable for 4 wheel drive vehicles) provides summer access to the upper elevation areas in the vicinity of Willis Lake.
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.

Appendix C – Forest Stewardship Plan Maps

Individual *FDU* maps comprising Appendix C of this *FSP* are separate from this document due to file size limitations.

Appendix D – Notice, Review and Comment

Notice, review and comment information comprising Appendix D of this *FSP* are separate from this document due to file format limitations.