



Consolidated Forest Stewardship Plan

FOR

Merritt TSA

Cascades Natural Resource District

Thompson/Okanagan Forest Region

Initially Approved June 12, 2018

Inclusive of Amendments 1 - 14

Dated January 17, 2020

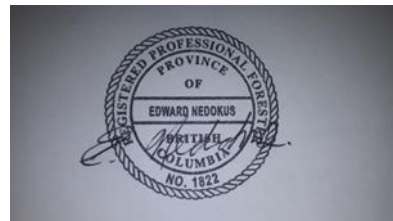
Through

June 17, 2022

FSP Term: 5 Years (2018 – 2023)

FSP ID # 76

Commencing: June 12, 2018



Edward Nedokus, RPF

Date: Dec 19, 2022

"I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work"

Table of Contents

1. Interpretation
2. Application
3. Term
4. Forest Development Units
5. Results or Strategies
 - 5.1 Objectives Set By Government
 - 5.1.1 Old Growth Order
 - 5.1.2 Fisheries Sensitive Watersheds
 - 5.2 Objectives Prescribed under section 149(1) of the Forest and Range Practices Act
 - 5.2.1 Soils
 - 5.2.2 Wildlife
 - 5.2.2.1 Moose
 - 5.2.2.2 Coastal Tailed Frog
 - 5.2.2.3 Flammulated Owl
 - 5.2.2.4 Gopher Snake
 - 5.2.2.5 Spotted Bat
 - 5.2.2.6 Williamson's Sapsucker
 - 5.2.3 Water, Fish, Wildlife and Biodiversity within Riparian Management Areas
 - 5.2.4 Wildlife and Biodiversity – Landscape Level
 - 5.2.5 Wildlife and Biodiversity – Stand Level
 - 5.2.6 Cultural Heritage Resources
 - 5.2.7 Water in Community Watersheds
 - 5.3 Other Objectives established or continued under **FRPA**
 - 5.3.1 Scenic areas
 - 5.3.2 Interpretive forest sites, recreation sites and recreation trails
6. Stocking Standards
7. Measures to Prevent the Introduction or Spread of Invasive Plants
8. Measures to Mitigate the Effect of Removing or Rendering Ineffective Natural Range Barriers
9. Signatures of Persons Authorized to Sign on Behalf of Persons Required to Prepare this **FSP**

Appendices

- A Stocking Standards
 - B Forest Stewardship Plan Maps
 - C Declared areas under section 14(4) of the **FPPR**
 - D Objectives for interpretive forest sites, recreation sites and recreation trails
 - E Cutting Permits and Road Permits in Effect (S. 14(3)(j) **FPPR**)
-

1 Interpretation

1.1 Definitions

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

“**Act**” means the *Forest and Range Practices Act* S.B.C. 2002, c.69;

“**Agreement**” means a licence listed in Paragraph 2.1, unless this *FSP* no longer applies to that licence;

“**Agreement Holder**” means an individual holder of a licence listed in Paragraph 2.1, or any successor or assignee of that holder of a licence, unless this *FSP* no longer applies to that holder of a licence;

“**Applicable SAR Notice**” means:

- (a) a notice issued under *FPPR* section 7(2) entitled “**NOTICE – INDICATORS OF THE AMOUNT, DISTRIBUTION AND ATTRIBUTES OF WILDLIFE HABITAT REQUIRED FOR THE SURVIVAL OF SPECIES AT RISK IN THE CASCADES FOREST DISTRICT**” dated December 30, 2004;

“**BEC**” means Biogeoclimatic Ecosystem Classification;

“**CP**” means a cutting permit;

“**Current**” means, in the context of a *FSP*, timber sale licence, *CP* or *RP*, an approved document that has not expired or been replaced;

“**Cutblock**” means an area:

- (a) in which a holder of a licence has harvested timber under a *CP* or timber sale licence; or
- (b) in which a holder of a licence is authorized to harvest but the harvesting has not occurred;

- (c) identified in a **Current FSP** as an area to which section 196(1)(a) of the **Act** applies;

“Damaged Timber” means timber that has been affected by insects, disease, wind, fire, or other similar agents and is in danger of being significantly reduced in value, lost, destroyed, or poses risk to adjacent timber.

“Date of Submission” means November 9, 2017, which is the date this **FSP** was submitted for approval;

“Development project in the governments interest” means a project undertaken by government, or authorized by government, for a purpose, including but not limited to, such as constructing or improving a utility, highway, fence, mine, recreation site or recreation area.

“Established Cutblock” means a **Cutblock** that, before the earlier of the date a **Cutblock** or road is included within a **CP** or **RP** to which this **FSP** applies or is included within a declared area under this **FSP**, has been:

- (a) harvested under a licence to which this **FSP** applies;
- (b) declared under this **FSP**;
- (c) included within a **Current CP** issued under a licence to which this **FSP** applies but which **CP** will not be 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;
 - (ii) included in a **Current CP** issued under a licence to which this **FSP** does not apply or in a timber sale licence;
 - (iii) shown in another **Current FSP** as an area to which section 196(1)(a) of the **Act** applies;

“Established Road” means a road that, before the earlier of the date a **Cutblock** or road is included within a **CP** or **RP** to which this **FSP** applies or is included within a declared area under this **FSP**, has been:

- (a) constructed by a **Holder of this FSP**;
- (b) included within a **Current CP** or **RP** issued under or associated with a licence to which this **FSP** applies but to which **CP** or **RP** will not be subject to this **FSP**; or
- (c) identified in an inventory or notice provided by government as an area:

- (i) constructed by a person other than the **Holder of this FSP**;
- (ii) included in a **Current CP** or **RP** issued under a licence to which this **FSP** does not apply or in a timber sale licence;
- (iii) shown in a previous Forest Development Plan pertaining to a licence to which this **FSP** does not apply as an area to which section 22(2)(b) of the Operational and Site Planning Regulation as it was at the time of its repeal applies; or
- (iv) shown in another **Current FSP** as an area to which section 196(1)(b) of the **Act** applies;

“**FDU**” means a forest development unit;

“**Forest Act**” means the **Forest Act** R.S.B.C. 1996, c.157;

“**Forested Area**” means a polygon identified in the **VRI** as contributing to the forest management land base, as indicated by the Forest Management Land base Indicator attribute. This attribute indicates whether a polygon is forested or has been forested and is capable of producing a stand of trees. Polygons classified as lakes, rock, alpine, shrub and wetland are not considered **Forested Area**.

“**FPC**” means the Forest Practices Code of British Columbia Act R.S.B.C. 1996, c. 159 and all regulations thereunder;

“**FPPR**” means the Forest Planning and Practices Regulation B.C. Reg. 14/2004;

“**FRPA**” means the **Act** and the regulations thereunder;

“**FSP**” means a forest stewardship plan;

“**Holder of this FSP**” means, for each licence specified in Paragraph 2.1, the holder of that licence as indicated in that Paragraph, or any successor or assignee of that holder; “**Holder**” has the same meaning; and “**Holders of this FSP**” means all of those holders of those licences or any successor or assignee to those holders;

“**Legislated Planning Date**” means:

- (a) subject to clause (b), the date 4 months before the **Date of Submission**; or
- (b) if an enactment or an objective set by government requires that a date different than the date referred to in clause (a) be applied under this **FSP**, then that different date;

“**LU**” means Landscape Unit;

“**Minister**” means the minister responsible for the **Forest Act**;

“**MFLNRO**” means the Ministry of Forests, Lands and Natural Resource Operations

“**OGMA**” means Old Growth Management Area;

“**Qualified Professional**”(QP) 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;

“**Range Tenure**” 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 Tenures are housed in the BC Geographic Warehouse;

“**Road**” means an access structure built within 35 metres either side of a centerline location and includes the area cleared of timber for any right-of-way, borrow pit, turnout, landing or to alleviate a safety hazard;

“**RP**” means a road permit;

“**Term**” means the period specified in Paragraph 3.1;

“**THLB**” means Timber Harvesting Land Base as defined in the Timber Supply Review document for the Timber Supply Areas applicable to this **FSP**;

“**TSA**” means a timber supply area;

“**VRI**” means Vegetation Resource Inventory, the photo-based inventory of the BC provincial forest. **VRI** data is housed in the BC Geographic Warehouse. For the purposes of **FSP** results or strategies, **VRI** data is considered current to a point in time 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, a reference to legislation, an established objective, a notice under section 7(2) of the *FPPR*, a designation of a species to which such a notice or established objective applies, an establishment of an area referred to in section 14(3)(a) to (i) of the *FPPR* or an order made by government means that legislation, established objective, notice, designation, area or order as it was on the *Legislated Planning Date*.

1.3 Definitions from Legislation

In this *FSP*, unless this *FSP* specifies, or the context requires otherwise, words and phrases defined in the *FPPR*, *FRPA* or the *Forest Act* as of the *Legislated Planning Date* have the same meaning as those definitions.

1.4 Changes to Legislation

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

1.5 Expressions Inclusive

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

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

1.6 Organization

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

- 1. Part;
 - 1.1 to 1.1.1.1 Paragraph;
 - (a) Subparagraph;
 - (i) Clause;
 - (A) Sub clause;
 - (I) Section;
 - (1) Subsection,

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

1.7 Headings and Information about Objectives

The headings and the provisions titled “Information about applicable objective” including the contents thereof, are for ease of reference only and are not to be construed as part of, or to serve as an aid to interpreting, this *FSP*.

1.8 Appendices Part of *FSP*

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

1.9 No Prohibition on Activities Otherwise Permitted or Required

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

1.10 Conditional Exemptions under sections (ss.) 12.2 to 12.5 of the *FPPR*

The following Paragraphs are included in this *FSP* for the purpose of obtaining an exemption under sections 12.2 to 12.5 of the *FPPR* from the following sections of the *FPPR*:

Paragraph in this <i>FSP</i>	Section of <i>FPPR</i> under which Exemption Provided	Sections of the <i>FPPR</i> to which Exemption Applies
5.2.1.2	12.2	35(1), 35(3), 35(5), and 36
5.2.1.3	12.2	35(4)
5.2.1.4	12.2	35(6), 35(7)
5.2.3.2	12.3	47(4) to (6), 48(3) to (5), 49(2), 49(3), 50 (1), 51(1) & (3), 52(2), 53
5.2.4.1	12.4	64(1), 65(2)
5.2.5.2 & 5.2.5.3	12.5(1)	66(1), 66(2), 66(3)
5.2.5.4	12.5(2)	67
5.2.7.2	12.32	59, 60(2) and 61 as they pertain to cumulative hydrological effects on water quality affecting human health in community watersheds

Sections of the *FPPR* identified in orange text have been adopted as a result or strategy. This is re-iterated in the applicable sections throughout this *FSP*. Sections of the *FPPR* identified in black text have a unique result or strategy which deviates from the default practice requirements in the *FPPR*

1.11 Development Project in the government’s interest

Without limiting any other provision in this *FSP*, this *FSP* does not apply to a *Development Project in the Government’s Interest*. All primary forest activities will be conducted consistent with any conditions imposed by government and may be different from the requirements of this *FSP*.

1.12 *FPPR* Section 12(7) Exemption

Upon the determination by the **Minister** that it is not practicable, given the circumstances or conditions, including **Damaged Timber**, applicable to a particular area, to specify a result or strategy consistent with an established objective, a **Holder of this FSP** is exempt from that requirement. The result or strategy in this **FSP** will not apply for that area. Any conditions imposed by the **Minister** will be followed as well as any specific alternative results or strategies found in the **FSP** relating to this kind of exemption.

2 Application

2.1 Agreements (Act s.3(4))

This *FSP* applies to the following licences and Forest Development Units:

APPLICABLE <i>FSP</i>	<i>FDU</i>	TENURE	LICENCE	TENURE NAME	Holder of Licence as of the Date of Submission
Aspen Planers Ltd.	A	FL	A18039		Ardew Wood Products Ltd.
Aspen Planers Ltd.	A	FL	A18695		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A55524		Mego Wood Products Ltd.
Aspen Planers Ltd.	A	FL	A55525		Qwa'et Forest Products Ltd.
Aspen Planers Ltd.	A	FL	A55528		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A65006		Stuwix Resources Ltd.
Aspen Planers Ltd.	A	FL	A75062		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A81242		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A84382		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A84506		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A84685		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A85416		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A85417		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FL	A85445		Cook's Ferry First Nation
Aspen Planers Ltd.	A	FL	A85446		Cook's Ferry First Nation
Aspen Planers Ltd.	A	FL	A85447		Lower Nicola First Nation
Aspen Planers Ltd.	A	FL	A85448		Lower Nicola First Nation
Aspen Planers Ltd.	A	FL	A85452		Siska First Nation
Aspen Planers Ltd.	A	FL	A86066		Nooaitch First Nation
Aspen Planers Ltd.	A	FL	A86086		Coldwater First Nation
Aspen Planers Ltd.	A	FL	A92671		Nicomen Indian band
Aspen Planers Ltd.	A	FLTC	A86772	Bob 5	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86773	Bob 6	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86774	Bob 7	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86775	Br 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86776	Pim 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86841	Ket 4	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86842	Ket 3	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86843	Ket 2	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86844	Ket 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86845	Roscoe 16	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86846	Roscoe 15	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86847	Roscoe 14	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A86850	Con 5	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A86851	Con 6	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A86852	Con 4	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A86919	Eve1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A86921	Eve 2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A86922	Dart 1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A86923	Dart 2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A86926	Roscoe 13	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87202	Dart 3	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87203	Dart 4	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87204	Dart6	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87205	Dart 5	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87206	Wart 6	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87207	Wart 7	Nadina Logging Ltd.

Aspen Planers Ltd.	A	FLTC	A87208	Wart 8	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87210	Wart 9	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87261	Tyner 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87265	Bob 8	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87266	Bob 9	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87296	Cal 1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87297	Cal 2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87326	Cool 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87327	Cool 2	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87328	Cool 3	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87329	Cool 4	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87330	Cool 5	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87331	Cool 6	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87332	Cool7	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87419	Wart 1	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87421	Wart 3	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87422	Wart 4	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87423	Wart 5	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87443	Wart 2	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87543	Wart 10	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87544	Wart 11	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A87848	Sur 22	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87849	Sur 24	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87850	Sur 25	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A87862	Tyner 4	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A87863	Tyner 5	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88285	Bear 2	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88286	Bear 3	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88287	Bear 4	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88288	Bear 5	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88289	Bear 6	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88290	Bear 7	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88388	Young 3	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88389	Young 4	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88390	Young 5	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88391	Young 6	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88512	Young 1	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88647	Clark 12	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A88648	Clark 13	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A88649	Clark 14	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A88655	Dupont 5	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A88656	Dupont 6	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A88657	Dupont 1	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A88660	Dupont 4	489581 BC Ltd.
Aspen Planers Ltd.	A	FLTC	A88717	Young 7	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A88718	Young 8	Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A89453	Mill 1	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A89460	Mill 2	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A89461	Mill 3	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A89462	Mill 4	Millennium Forest Management Inc.
Aspen Planers Ltd.	A	FLTC	A90063		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A91028	Clark 22	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A91029	Clark 23	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A91030	Clark 24	Nadina Logging Ltd

Aspen Planers Ltd.	A	FLTC	A91031	Clark 27	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A91032	Clark 21	Nadina Logging Ltd
Aspen Planers Ltd.	A	FLTC	A92072	Stumbles 1	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92073	Stumbles 2	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92074	Stumbles 4	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92075	Stumbles 5	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92076	Stumbles 7	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92077	Stumbles 6	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A92090	Stumbles 3	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A90340		Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A90341		Trace Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A90385		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A90386		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A90884		Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A93212	Rosco21	Maka Contracting Ltd.
Aspen Planers Ltd.	A	FLTC	A93745	Eve 3	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A93746	Eve 4	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A93747	Eve 5	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A93748	Eve 6	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A93749	Eve 7	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A93951	PIP 1	Maka Contracting Ltd.
Aspen Planers Ltd.	A	FLTC	A94657	Gordon SSS	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94658	Gordon SSS	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94659	Gordon SSS	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94660	Gordon SSS	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94661	Gordon SSS	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94809	V12	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94981	FW1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94982	FW2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94983	FW3	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94984	FW4	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94985	FW5	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A94365	Zoht1	Basen Environmental Corp.
Aspen Planers Ltd.	A	FLTC	A94366	Zoht2	Basen Environmental Corp.
Aspen Planers Ltd.	A	FLTC	A94367	Zoht3	Basen Environmental Corp.
Aspen Planers Ltd.	A	FLTC	A94368	Zoht4	Basen Environmental Corp.
Aspen Planers Ltd.	A	FLTC	A94369	Zoht5	Basen Environmental Corp.
Aspen Planers Ltd.	A	FLTC	A94723	Tupper2A	Maka Contracting Ltd.
Aspen Planers Ltd.	A	FLTC	A94883	Billy1, 2, 3	Maka Contracting Ltd.
Aspen Planers Ltd.	A	FLTC	A95031	HB1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95032	HB2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95033	HB3	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95034	HB4	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95035	HB5	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95139	SG1	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A95140	SG2	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A97062	Fox Farm	Nadina Logging Ltd.
Aspen Planers Ltd.	A	FLTC	A97262	Iron Mtn.(615)	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A97367	8 Mile Interface – ADM	Dean Edward Thompson
Aspen Planers Ltd.	A	FLTC	A97379	8 Mile-Mamit 1	Nadina Logging Ltd.

Aspen Planers Ltd.	A	FLTC	A97383	8 Mile-Mamit 2	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A97394	Kane Valley	Fusion Timber Inc.
Aspen Planers Ltd.	A	FLTC	A97465	Iron Mtn.	Aspen Planers Ltd.
Aspen Planers Ltd.	A	FLTC	A97548	Promontory	Kwila Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A97711	Pooley Ranch	Kwila Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A98174	Gordon Creek FSR – Community Interface	Stuwix Resources Ltd.
Aspen Planers Ltd.	A	FLTC	A98501	8 Mile Interface – SFE1	Shulus Forest Enterprises Inc.

3 Term

3.1 Term (*Act s.6(1)(a)*)

The term of this *FSP* is 5 years, commencing on the date specified in Paragraph 3.2 unless:

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

3.2 Commencement of Term (*Act s.6(1)(b)*)

The term of this *FSP* commences on June 12, 2018.

4 Forest Development Units

4.1 Forest Development Units (*Act s.5(1)(a)(ii)* and *FPPR s.14(1)(a)*)

The map in Appendix B to this *FSP* shows the boundary of *FDU A* under this *FSP*.

Due to administrative and operational discrepancies that are small in scale (i.e. GPS inaccuracies, map sensitivity refinement, line work updates), the outer *FDU* boundary may be extended approximately 30 metres into neighboring *TSAs*. This is to prevent timber alienation and to ensure responsible forest management.

4.2 Land Use Designations and Other Things to be Identified (*FPPR ss.14(2) and (3)*)

The maps in Appendix B to this *FSP* identify the things referred to in section 14(3) of the *FPPR* that are within the *FDU* and in effect as of the *Legislated Planning Date*. The exception to this is the area in which commercial harvesting is prohibited by another enactment, which cannot be shown completely on the maps due to the lack of availability of a dataset displaying private land boundaries. Any area that holds the status of Private Ownership according to the provincial “Integrated Cadastral Fabric – Private Ownership” dataset, as of the *Legislated Planning Date*, is excluded from the *FDU*, even if it is not shown on an Appendix B map.

5 Results or Strategies

5.1 Objectives Set by Government

5.1.1 Old Growth Order

Information about Applicable Objective

Objective	The Minister has issued an order under section 4 of the <i>Forest Practices Code of British Columbia Act</i> establishing Landscape Units and Old Growth Objectives.
Date in Effect	June 30, 2004.

Strategy

5.1.1.1 Definitions

In Paragraph 5.1.1.2 and 5.1.1.3

“**Old Forest Polygon**” means an area identified as an old forest polygon as depicted by the most current consolidated Old Forest Polygon layer on the map housed by the *MFLNRO* in accordance with the Cascades District Agreement for managing *OGMA* Consolidation Mapping, as approved by the DOIT committee members on July 15, 2013; and

“**Order**” means the Order Establishing Provincial Non-Spatial Old Growth Objectives that came into effect on June 30, 2004.

5.1.1.2 No Harvesting in Old Forest Polygons

Subject to Paragraph 5.1.1.3, a *Holder of this FSP* will not undertake timber harvesting to which this *FSP* applies within an *Old Forest Polygon*.

5.1.1.3 Alternative Strategies for these situations/circumstances

Paragraph 5.1.1.2 will apply only to the extent practicable where harvesting:

- (a) to facilitate road maintenance;
- (b) to eliminate a safety hazard if there is no other practicable option for addressing the hazard;
- (c) is less than 1.0 hectare; or
- (d) when:
 - (i) the harvest area exceeds the amount referred to in Subparagraph (c); and

- (ii) on or before the reporting of harvest completion for the **Cutblock**, a **Holder of this FSP** identifies a replacement forest polygon that:
 - (A) is of similar size to the **Old Forest Polygon** area to be harvested;
 - (B) is within the same landscape unit (or adjacent to the harvested **Old Forest Polygon** in an adjacent landscape unit), biogeoclimatic zone, subzone and variant as the **Old Forest Polygon** to be harvested;
 - (C) contains forest cover that is consistent with one of the following:
 - (I) the age of old forest identified in Section 2 of the **Order**;
 - (II) section 6 of the **Order**; or
 - (III) of equal or greater age class of the **Old Forest Polygon** to be harvested; and
 - (D) is sent to the host (**MFLNRO** staff) of the Consolidated **OGMA** map once per year.

5.1.2 Fisheries Sensitive Watersheds	
Information about Applicable Objective	
Objective	<p>The Acting Regional Executive Director, on behalf of the Ministry of Forest, Lands, Natural Resource Operations and Rural Development, has issued an order under sections 14(1) and 14(2) of the Government Actions Regulation (B.C. Reg. 582/2004) for Fisheries Sensitive Watershed – Cascades Forest District, dated March 27th, 2018. It establishes a list of Fisheries Sensitive Watersheds (applicable Watersheds, Basins or Residual areas of the Spius Creek and Coldwater River watersheds) – refer to Schedule A of the Order for description of the area.</p> <ol style="list-style-type: none"> 1. For the Fisheries Sensitive Watersheds identified by this Order, the objectives are: <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 sources to: <ol style="list-style-type: none"> i. Fish streams, and ii. Streams that are 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 specific 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.
Date in Effect	Dated March 27, 2018 (effective April 13, 2018)

Strategy

5.1.2.1 Definitions

In Paragraph 5.1.2.2, 5.1.2.3 and 5.1.2.4:

The terminology used in the strategies originates from the definitions provided in the orders, and includes additional considerations or details for clarification. Where additional context is provided, this is highlighted as *italicized* text below. Additional definitions are added where they are used in the strategies:

GAR Order Definitions:

“Active Fluvial Unit (AFU)” 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 hydrogeomorphic processes, active within at least one full rotation (*100 years on average*). *The ‘active’ portion is defined by the size and power of the stream and the dominant hydrogeomorphic processes;*

“Annual Flow” means the total amount of water passing a given point in one year;

“Equivalent Clearcut Area (ECA)” means 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 stand 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** defines the specific assumptions and approaches utilized in developing the ECA calculation;*

“Establish” means, for the purposes of Objective 1(c), that forest licensees operating within a designated watershed or basin work cooperatively with *Qualified Professionals* to complete an analysis to determine a *Sustainable Rate-of-Cut* based on best available information;

“Harmful” means lethal, sub-lethal, or behavioural effects¹ on fish due to concentration and duration of exposure to suspended sediments, and/or levels of stream sedimentation that reduce the productivity of spawning or rearing habitats, and/or restrict fish passage;

“Protect” means, for the purposes of Objective 1(a), additional measures required to ensure a retained area of mature timber (*individual trees*) and/or other natural vegetation on an *Active Fluvial Unit* remains intact from subsequent disturbances that may result from *Primary Forest* and other land-use activities (i.e. windthrow);

“Retain” means, for the purposes of Objective 1(a), mature timber (*individual trees*) and/or other vegetation purposefully excluded from timber harvest during primary forest and other land use activities;

“Riparian Function” is defined as, in the context of watershed management: 1) the ability for stream banks to remain stable during peak flood events with the provision of bank stability, particularly where alluvial materials are involved, 2) the ability to filter runoff, 3) the ability to store and safely release water, 4) the recruitment of large woody debris to the stream, and 5) the provision of shade to aquatic systems;

“Seasonal Flows” means the annual variation in streamflow including peak and low flows;

“Sediment Delivery” means the deposition of sediment from a sediment source into a *Fish Stream* or *Direct Tributary* to a fish stream;

“Snowline” means the lower extent of elevation in a watershed at which snow is still present on the ground at the commencement of the peak flow period. The area of the watershed above that

¹ As defined by Newcombe and Jensen (1996) and reported in *Guidance for Minimizing Adverse Sediment Effects on Fish and Fish Habitat in Fisheries Sensitive Watersheds* (FLNRORD, 2018).

elevation is the source area that contributes to snowmelt to spring peak flows. Has been referred to as the ‘snow sensitive zone’, and typically modeled as an H60-line, where 60% of the watershed area falls above that point;

“Sustainable Rate-of-Cut” or “SRC” means 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 (wildfires, insects, pathogens, etc.), and other land-use activities, including disturbances 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;*

“Un-natural Sediment Source” means a sediment generation site or area that is directly related to forest management or other land-use activity. It includes active *Roads*, trails, landings, cutblocks, other clearings, and adjacent terrain features that can be affected by forest cover removal and/or water management associated with forest and other land-use activity;

“Very Low Likelihood” means a qualitative estimate of probability that a specified outcome is ‘Very Unlikely’ or less (<10 chances out of 100).

Additional Definitions as used in the strategies:

“Active Fluvial Unit Assessment” means an assessment carried out by a *Qualified Professional* that:

- (a) Identifies the potential for *Primary Forest Activities* within *Active Fluvial Units* to result in a material impact to:
 - (i) natural hydrological conditions, natural stream bed dynamics, and integrity of stream channels;
 - (ii) water quality required by fish;
 - (iii) *Fish Habitat*; and
- (b) Includes recommendations to mitigate potential material impacts identified within this assessment, including measures regarding the retention of mature timber and/or other natural vegetation, and the design and location of newly constructed *Roads*;
- (c) Includes shutdown protocols that may be needed in response to road conditions and weather for road construction, maintenance, and deactivation, log hauling, harvesting, and site preparation to reduce the potential for a material impact;
- (d) Schedules follow-up inspections the following year during spring freshet to ensure the treatments have been effective so that unexpected issues can be managed or retreated;

“Channel Stability” means the likelihood of development impacting the state of *Dynamic Channel Equilibrium*² along a stream (e.g. causing channel destabilization) as a result of changes in stream flow and/or sediment delivery. Reach-specific response is affected by influences such as channel confinement, riparian vegetation, and in-channel large woody debris. Differences in reach morphology and physical processes result in different potential responses to similar changes in discharge or sediment delivery;

“Direct Tributary” (to fish streams)³ means a channel that has the ability to transport *Harmful* levels of fine and coarse sediment to downstream fish-bearing waters as a result of stream power and physical connection;

“Equivalent Clearcut Area (ECA) Threshold” means the maximum ECA above the *Snowline* identified for watersheds, basins and sub-basins as per the GAR Order;

“Fish Habitat”⁴ means in channel, off channel, and adjacent to channel areas that provide habitat for fish that is determined to be valuable by a *Qualified Professional*;

“Fish Streams” means a stream in which fish presence and/or fish habitat is confirmed or inferred by a *Qualified Professional*;

“Fisheries Sensitive Watershed” means an area identified under GAR Order – Fisheries Sensitive Watershed – Cascades Forest District dated March 27, 2018 (effective April 13, 2018).

“Floodplain” means:

- (a) as per the *Guidelines for Maintaining Riparian Function in Fisheries Sensitive Watersheds* (FLNRORD, 2018), an “area of land adjacent to a stream or river, that varies in width according to local topography and inputs from tributary channels, generally composed of alluvial or semi-alluvial materials deposited by the channel either contemporarily or historically under flow conditions that exceed bank full discharge”; or
- (b) as per the *Riparian Management Guidebook* (BC Ministry of Environment, 1995), “any level area with alluvial soils, adjacent to streams, which is flooded by stream water on a periodic basis and is the same elevation as areas showing evidence of:
 - (i) flood channels free of terrestrial vegetation;
 - (ii) rafted debris or fluvial sediments newly deposited on the surface of the forest floor or suspended on trees or vegetation;
 - (iii) recent scarring of trees by material moved by flood waters;”

² See the Background Document section for a discussion on “dynamic channel equilibrium”.

³ As defined in the draft documents *Guidance for Maintaining Riparian Function in Fisheries Sensitive Watersheds* and *Guidance for Minimizing Adverse Sediment Effects on Fish and Fish Habitat in Fisheries Sensitive Watersheds* (FLNRORD, 2018).

⁴ As defined in the draft document *Guidance for Maintaining Riparian Function in Fisheries Sensitive Watersheds* (FLNRORD, 2018).

“Non-Declining Average Annual Rate” means the maximum area that can be disturbed each year and result in a steady state ECA of 25% in the long term (otherwise interpreted as maximum sustainable disturbance rate). In practice, this can be applied as a maximum area in any 5 year period. Disturbance is considered to be any impact to forested areas that result in it functioning like an early seral stand (significant fire, pest mortality, harvesting, etc.);

“Primary Forest Activities” means one or more of the following, as defined in the *Forest Planning and Practices Regulation* section 1:

- (a) timber harvesting;
- (b) silviculture treatments; or
- (c) road construction, maintenance and deactivation;

“Qualified Professional”(QP) 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 (copied from section 1.1 Definitions of the approved FSP);

“Roads” means, for the purpose of this strategy, to incorporate newly designed and constructed roads or previously constructed non-status roads for which a Road Permit is secured, newly constructed on-block roads, and previously constructed non-status roads that are used as on-block roads;

“Sediment Hazard Assessment” means an assessment carried out by a *Qualified Professional* that:

- (a) Identifies the potential for *Primary Forest Activities* to result in sediment related hazards, including areas where activities are most likely to generate and deliver sediment to *Fish Streams* or streams that are a *Direct Tributary* to *Fish Streams*.
- (b) Develops recommendations to manage sediment generation and delivery, including:
 - (i) Mitigation options to manage sediment related hazards including *Road* location, construction, upgrades, deactivation, monitoring and maintenance;
 - (ii) The potential sources of sediment and the potential for *Sediment Delivery* from *Primary Forest Activities*;
 - (iii) Identifies shut-down protocols that may be needed in response to road conditions and weather in order to manage sediment related hazards (e.g. high flow or rainfall events);
 - (iv) The potential need for communication and collaboration with other licensed users in the watershed; and

- (v) Timing of follow-up inspections during the following spring freshet, or another time determined to be most indicative, to ensure effectiveness of treatments and determine whether any actions are deemed necessary.

5.1.2.2 Objective 1a – Channel Stability and Riparian Function

In relation to Objective 1a of the identified *Fisheries Sensitive Watershed* GAR Order, prior to conducting *Primary Forest Activities* the FSP holder will:

- (a) Ensure that a *Qualified Professional* assesses the area for the presence of an *Active Fluvial Unit* that is associated with:
 - (i) a *Fish Stream*, or
 - (ii) a stream that is a *Direct Tributary* to a *Fish Stream*;
- (b) Where an *Active Fluvial Unit* as described in (a)(i) or (a)(ii) is identified within that cutblock or *Road*, ensure that an *Active Fluvial Unit Assessment* is completed.
- (c) Ensure the activities are conducted consistent with the recommendations of the *Active Fluvial Unit Assessment*.

5.1.2.3 Objective 1b – Sediment (Very Low Likelihood)

In relation to Objective 1b of the identified *Fisheries Sensitive Watershed* GAR Order, prior to conducting *Primary Forest Activities* the FSP holder will:

- (a) Ensure that a *Sediment Hazard Assessment* is completed for the proposed cutblocks and *Roads*.
- (b) Ensure the activities are conducted consistent with the recommendations of the *Sediment Hazard Assessment*.

5.1.2.4 Objective 1c – Sustainable Rate of Cut

In relation to Objective 1c of the identified *Fisheries Sensitive Watershed* GAR Order the FSP holder will:

- (a) Prior to carrying out harvesting activities and/or road construction within the portions of the *Fisheries Sensitive Watersheds* with established *ECA Thresholds* as indicated in Table 1, ensure that a calculation of the *ECA* above the *Snowline* is completed, and calculate a *Sustainable Rate-of-Cut*, that does not exceed 25% *ECA* above the *Snowline*, including recommendations to protect the quantity and timing of *Annual and Seasonal Flows* with forest harvesting distributed by aspect, sub-basin, and elevation, where possible.
- (b) Ensure that harvesting is conducted in accordance with the *Sustainable Rate-of-Cut* and the recommendations made.

Table 1: Maximum Equivalent Clearcut Areas (ECA) above the *Snowline* for the Merritt TSA Watersheds and Basins

Gazetted Name	Watershed, Basins or Residual	GIS FSW Identifier	Unit Number	Maximum ECA (%)
Spius Creek		F-3-007	1	N/A
	Richardson Creek Watershed	F-3-007	2	N/A
	Teepee Creek Basin	F-3-007	3	25
	Upper Prospect Creek Basin	F-3-007	4	25
	West Prospect Creek Basin	F-3-007	5	25
	Southwest Prospect Creek Basin	F-3-007	6	25
	South Prospect Basin	F-3-007	7	25
	West Upper Spius Creek Watershed	F-3-007	8	25
	South Upper Spius Creek Watershed	F-3-007	9	25
	Upper Spius Creek Watershed	F-3-007	10	25
	Upper Maka Creek Basin	F-3-007	11	25
	East Upper Maka Creek Basin	F-3-007	12	25
	Maka Creek Residual Basin	F-3-007	13	25
Coldwater River		F-3-008	1	N/A
	Midday Creek Watershed	F-3-008	2	N/A
	Voght Creek Watershed	F-3-008	3	N/A
	Godey Creek Watershed	F-3-008	4	N/A
	Brook Creek Basin	F-3-008	5	25
	Upper Coldwater River Watershed	F-3-008	6	25
	Juliet Creek Basin	F-3-008	7	25
	July Creek Basin	F-3-008	8	25
	Upper Coldwater Residual Basin	F-3-008	9	25

5.2 Objectives Prescribed under section 149(1) of the *Act*

5.2.1 Soils (*FPPR s.5*)

Information about Applicable Objective	
Objective	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.
Date in Effect	This objective was established on the coming into force of the Forest Planning and Practices Regulation on January 31, 2004.

Result

5.2.1.1 Definitions

In Paragraph 5.2.1.1 to 5.2.1.4:

“**Gross Cutblock Area**” means the total area of the *Cutblock*, which includes all roads, the net area to be reforested, internal reserves and non-productive areas.

“**Percent of Cutblock occupied in permanent access structures**” means the quotient of the area occupied by permanent access structures divided by the *Gross Cutblock area*, multiplied by 100.

“**Temporary Access Allowance**” means the percentage of a standard unit as determined from the following equation:

$$\text{temporary access allowance} = (12\%) - (\text{Percent of Cutblock occupied in permanent access structures, or } 7\%, \text{ whichever is less})$$

5.2.1.2 General Soil Conservation

Each *Holder of this FSP* adopts as a result or strategy for activities of that Holder to which this *FSP* applies sections 35(1), 35(3), 35(5) (*Soil Disturbance Limits*), and 36 (*Permanent Access Structure Limits*) of the *FPPR* as those sections were on the *Legislated Planning Date* of this *FSP*.

5.2.1.3 Exceeding Soil Disturbance Limits – Result replacing *FPPR* section 35(4)

A *Holder of this FSP* may cause soil disturbance that exceeds the limits specified in section 35(3) of the *FPPR*, as adopted as a result or strategy under this *FSP*, if that Holder is:

- (a) removing infected stumps or salvaging wind throw and the additional disturbance is the minimum necessary;
- (b) constructing a temporary access structure in an area not referred to in Subparagraph (c) and both of the following apply:

- (i) the limit set out in section 35(3) of the **FPPR**, as adopted as a result or strategy under this **FSP**, is not exceeded by more than the **Temporary Access Allowance**, for standard units not comprised of predominantly sensitive soils, and not exceeded by more than 5% for standard units with predominantly sensitive soils, excluding the area covered by a roadside work area; and
- (ii) before the regeneration date, a sufficient amount of the area within the standard unit is rehabilitated such that the Holder is in compliance with the limits set out in section 35(3) of the **FPPR**, as adopted as a result or strategy under this **FSP**; or
- (c) constructing a temporary access structure:
 - (i) within a standard unit with a net area to be reforested that is less than 5 ha;
 - (ii) within a standard unit that is not predominantly comprised of sensitive soils; and
 - (iii) before the regeneration date, a sufficient amount of the area within the standard unit is rehabilitated such that the Holder is in compliance with the limits set out in section 35(3) of the **FPPR**, as adopted as a result or strategy under this **FSP**.

5.2.1.4 Work Related to Rehabilitation - Result replacing **FPPR** section 35(6) and 35(7)

A **Holder of this FSP** who rehabilitates an area under Paragraph 5.2.1.3 or section 35(5) (**Soil Disturbance Limits**) of the **FPPR**, as adopted as a result or strategy under this **FSP**, must:

- (a) remove or redistribute woody materials that are exposed on the surface of the area and are concentrating subsurface moisture, to the extent necessary to limit the concentration of subsurface moisture on the area;
- (b) de-compact compacted soils;
- (c) return displaced surface soils, retrievable side-cast and berm materials; and
- (d) where erosion of exposed soil from the area would cause sediment to enter a stream, wetland, or lake, or cause a material adverse effect in relation to one or more of the subjects listed in section 149(1) of the **Act**, the Holder, unless placing debris or revegetation would not materially reduce the likelihood of erosion, must:
 - (i) place woody debris on the exposed soils; or
 - (ii) revegetate the exposed mineral soils.

5.2.2 Wildlife (**FPPR** s.7)

Information about Applicable Objective	
Objective	The objective set by government for wildlife is, without unduly reducing the supply of timber from British Columbia's forests, to conserve sufficient habitat in terms of amount of area, distribution of areas and attributes of those areas, for the survival of specified species, regionally important wildlife, and the winter survival of specified ungulate species, which, in the case of this <i>FSP</i> are: <ul style="list-style-type: none"> ➤ Moose; ➤ Coastal Tailed Frog; ➤ Flammulated Owl; ➤ “Great Basin” Gopher Snake; ➤ Spotted Bat.
Date in Effect	Notices triggering the objective for the species addressed in this <i>FSP</i> were given under Section 7(2) of the Forest Planning and Practices Regulation on December 30, 2004.

5.2.2.1 Moose	
Information about the Notice	
Amount	A maximum of 694,072 ha for the Merritt <i>TSA</i> , with no impact to the timber supply and consistent with the most recent Timber Supply Review.
Distribution	Winter range foraging habitat and cover is to be distributed proportionately within moose winter ranges, located in forest types at the elevation and on slope aspects typical of ungulate winter ranges for moose in south eastern BC according to the attributes below.
Attributes	1. Foraging habitat: <ul style="list-style-type: none"> • Maintain a minimum of 15% of the net forested land base in early seral stands; early seral is defined as: <ul style="list-style-type: none"> a) In the IDF and ICH zones - less than 25 years b) In the MS and ESSF zones - less than 35 years 2. Cover: <ul style="list-style-type: none"> • Cover is defined as coniferous stands of at least 16 m in height with relatively high canopy closure to provide both snow interception and security cover. • At least 50% of cover is to be in patches of 20 ha, or greater • Where possible, cover is to be in close proximity to important riparian features

Result

5.2.2.1.1 Definitions

In Paragraphs 5.2.2.1.1 and 5.2.2.1.2:

“**Cover**” is defined as coniferous stands of at least 16 m in height with relatively high canopy closure (2+) to provide both snow interception and security cover;

“**Early Seral**” is defined as:

- a) In the IDF and ICH zones - less than 25 years; or
- b) In the MS and ESSF zones - less than 35 years;

“**Foraging habitat**” means *Early Seral* stands;

“**Moose Forage**” means palatable species of plants that are a food source for moose, including willow (*Salix spp.*), aspen (*Populus spp.*), birch (*Betula spp.*) and red-osier dogwood (*Cornus stolonifera*);

“**Moose Wetlands**” means a W1, W2, W3 or W5 wetland that contains not less than 20% *Moose Forage* cover, as determined by a *Qualified Professional*;

“**Moose Winter Range**” means, within *FDU A*, the area identified as *Moose Winter Range* on *Figure 2 Ungulate Winter Range in the Merritt Timber Supply Area*, issued as part of the material supporting the *FPPR* Section 7(2) Notice for Moose:

http://www.env.gov.bc.ca/esd/distdata/ecosystems/frpa/Approved_FRPR_sec7_WLPPR_sec9_Notices_and_Supporting_Info/UWR/Timber_Supply_Areas/Merritt_TSA/Supporting_Info/Figure/figure2_merritt_TSA.pdf

“**Visual Screen**” means vegetation and/or topography that functions as a visual obstruction, causing it to be difficult to see into adjacent areas from a road surface.

5.2.2.1.2 Merritt TSA Moose Result and Strategy

In relation to the objectives set by government for Moose in the Merritt *TSA*, when conducting harvesting, road construction or silviculture activities within *Moose Winter Range*, the *Holder of this FSP* will:

- (a) to meet the intent of the notice in regards to proportionate distribution of habitat within *Moose Winter Ranges* within a Landscape Unit:
 - (i) maintain a minimum of 15% of the net forested land base in *Foraging Habitat*;
 - (ii) maintain at least 50% of *Cover* in patches of 20 ha, or greater; and
 - (iii) where possible, maintain *Cover* in close proximity to important riparian features;
- (b) not construct a new permanent road within 200 metres (slope distance) of *Moose Wetlands*, unless no practicable alternative exists;
- (c) where new permanent road is constructed within 200 metres (slope distance) of *Moose Wetlands*, at the completion of the road construction and where suitable vegetation or topography exists, retain a *Visual Screen* along and/or between the new permanent road and *Moose Wetlands*, unless the safe use of the road warrants removal of the *Visual Screen*; and

- (d) retain ***Moose Forage*** at the completion of harvesting and silviculture activities (including brushing, weeding and stand tending) where present, unless retaining ***Moose Forage*** impedes the ability of a stand to reach free growing status;
- (e) commit to working with the other licensees in the Merritt ***TSA*** to develop a common result and strategy for Moose ***Foraging Habitat*** and ***Cover*** retention, including the development of Moose planning cells;
- (f) use Moose planning cells once they are developed and approved, rather than the Landscape Unit as the unit of measure, as described in Subparagraph (a).

5.2.2.2 Coastal Tailed Frog

Information about the Notice

Amount	2793 ha for the Cascades Forest District, not exceeding an impact to the mature timber harvesting land base of 1187 ha.
Distribution	<p>1. The amount of habitat referenced above must be distributed to provide</p> <ul style="list-style-type: none"> • areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for Coastal Tailed Frog in the <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004). <p>2. The areas described above are located within the biogeoclimatic units and preferred elevations identified in the species account for Coastal Tailed Frog in the <i>Accounts and Measures for Managing Identified Wildlife</i> in the Identified Wildlife Management Strategy Version 2004.</p>
Attributes	<p><u>Size:</u> Approximately 20 ha (depending on number and length of suitable stream reaches). Larger areas may be appropriate in watersheds with unstable terrain (class 4-5). Areas should include at least two streams or stream reaches (ie., S4 to S6) with previous detections of tailed frogs. The area should include a 30 m core area buffered by a 20 m management zone on both sides of occupied stream reaches.</p> <p><u>Habitat Attributes:</u> Tailed frog aquatic habitats are generally characterized by year round flow, non-fish bearing (S4-S6), intermediate gradient (>2.5%), coarse substrates (>6.4 cm), stable channel beds and forest cover (generally associated with structural stage S6 or S7). Retain 100% forest cover within the core area. Within the management zone maintain 70% basal area with appropriate structure to maintain riparian forest, important structural elements (e.g. coarse woody debris), water quality and temperature (5-18 degrees), and naturally dispersed water flows.</p> <p><u>Elevation:</u> From sea level to 2140 m.</p>

Result

5.2.2.2.1 Definitions

In Paragraphs 5.2.2.2.1 & 5.2.2.2.2:

“Core Area” means the area within 30 metres (slope distance) on each side of the stream at an ***Occurrence Site*** as measured from the edge of the stream channel bank and perpendicular to the stream axis;

“Management Area” means the portion of the ***Tailed Frog Habitat*** outside of the ***Core Area***;

“Occurrence Site” means the location on a stream having an occurrence of coastal tailed frogs as identified:

- (a) in the Applicable ***FPPR*** Section 7 Notice;

- (b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment;
- (c) in a wildlife habitat area proposed by the ministry responsible for wildlife not less than 12 months prior to cutting authority application or amendment, and that is outside of an ***Established Cutblock*** or ***Established Road***; or
- (d) in locations provided to the ***Holder of this FSP*** by ***MFLNRO*** prior to planning and layout of a ***Cutblock*** or road.

“Tailed Frog Habitat” means the area within 100 metres (slope distance) upstream and downstream of an ***Occurrence Site***, and 50 metres (slope distance) on each side of the stream as measured from the edge of the stream channel bank and perpendicular to the stream axis.

“Tailed Frog Habitat Crossing Assessment” means an assessment completed by a ***Qualified Professional*** that evaluates the potential impacts to ***Tailed Frog Habitat*** at a proposed road crossing site and provides recommendations regarding crossing width, crossing structure type, sediment control measures and access control.

5.2.2.2.2 Limitations on Harvesting and Road Construction

A ***Holder of this FSP*** harvesting a ***Cutblock*** to which this ***FSP*** applies will:

- (a) within a ***Core Area***
 - (i) minimize roads and/or stream crossings by not constructing a new road unless required for a stream crossing and no practicable alternative road location exists; and
 - (ii) not harvest timber unless the harvesting is for safety reasons;
- (b) within a ***Management Area***
 - (i) not cause there to be less than 70% of the pre-harvest basal area remaining at the completion of harvest;
- (c) not employ the use of pesticides in ***Tailed Frog Habitat***;
- (d) locate the ***Wildlife Tree Retention*** that pertains to the ***Cutblock*** in a ***Core Area*** or ***Management Area*** prior to harvesting a ***Cutblock***, where practicable and consistent with Paragraph 5.2.5; and
- (e) where a stream crossing is required, obtain a ***Tailed Frog Habitat Crossing Assessment*** prior to constructing a new road within ***Tailed Frog Habitat***, and construct the crossing in a manner consistent with the recommendations of the assessment and in accordance with the Water Sustainability Regulation ss. 43 & 44.

5.2.2.3 Flammulated Owl	
Information about the Notice	
Amount	4050 ha for the Cascades Forest District, not exceeding an impact to the mature timber harvesting land base of 3150 ha.
Distribution	<p>1. The amount of habitat referenced above must be distributed to provide</p> <ul style="list-style-type: none"> • areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for Flammulated Owl in the <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004). <p>2. The areas described above are located within the biogeoclimatic units and preferred elevations identified in the species account for Flammulated Owl in the <i>Accounts and Measures for Managing Identified Wildlife</i> in the Identified Wildlife Management Strategy Version 2004.</p>
Attributes	<p><u>Size:</u> Between 10 and 30 ha, based on estimated home range size using habitat suitability information. Should include a core area of 7-12 ha that includes key foraging, the nest site and security habitats and ~100 m management zone. Consider a WTP >4 ha where salvage does not occur and where as many suitable wildlife trees as possible are maintained or recruited over the long term (>80 yrs.).</p> <p><u>Tree Features</u> Visible woodpecker or natural cavities; understory brush or thickets, snags with cavities.</p> <p><u>Tree Species</u> Most commonly, Ponderosa pine; less commonly, Douglas-fir, trembling aspen or western larch.</p> <p><u>Nesting Habitat Features</u> Includes multi-age class stands with multiple canopy layers, including a veteran tree component for nesting or roosting. Large diameter ponderosa pine for nest trees may be critical to sustain local populations. Nest in Pileated Woodpecker and Northern Flicker cavities and it is therefore important to consider nesting requirement of these species as well. Nests are often located within and/or near foraging habitat.</p> <p><u>Foraging Habitat Features</u> Often forages within 300 m of nest during breeding season. Habitat is characterized by small forest openings (<1 ha) adjacent to Douglas-fir thickets and/or large veteran Douglas-firs or ponderosa pines with heavy branching for security. Understory structure may be important in forest openings for foraging habitat.</p> <p><u>Tree Size</u> 64-77 cm. In the absence of trees with the preferred Dbh, trees >35 cm or largest available should be retained for recruitment.</p> <p><u>Wildlife</u> 1, 3-7</p> <p><u>Tree Class</u></p> <p><u>Structural Stage</u> 6 (mature forest), 7 (old forest).</p> <p><u>Elevation:</u> 400-1375 m.</p>

Strategy:

The strategy for Flammulated Owl is the strategy for Old Growth in Paragraphs 5.1.1.1, 5.1.1.2, 5.1.1.3 of this *FSP*.

5.2.2.4 “Great Basin” Gopher Snake	
Information about the Notice	
Amount	4000 ha for the Cascades Forest District, not exceeding an impact to the mature timber harvesting land base of 0 ha.
Distribution	<p>1. The amount of habitat referenced above must be distributed to provide:</p> <ul style="list-style-type: none"> • areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for “Great Basin” Gopher Snake in the <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004). • The areas described above are located within the Biogeoclimatic units and preferred elevations identified in the species account for “Great Basin” Gopher Snake in the <i>Accounts and Measures for Managing Identified Wildlife</i> in the Identified Wildlife Management Strategy Version 2004.
Attributes	<p><u>Size</u> Approximately 200-300 ha; but will depend on site specific factors such as area of suitable habitat and nearness to foraging areas.</p> <p><u>Foraging Habitat Characteristics</u> Sites with low disturbance and absence of roads (populations are negatively impacted by mortality, particularly road mortality). Presence of retreat sites including structural elements such as rock outcrops, talus slopes, friable soils, coarse woody debris, burrows in areas with friable soils, concentrations of boulders, or other unconsolidated materials and vegetative cover. Areas with moderate to dense cover provided concealment cover to snakes and maintain foraging opportunity. Grassland, parkland forest, wetland, and riparian areas provide foraging habitat for snakes. Foraging habitats must also provide suitable cover, in the form of vegetation and coarse woody debris, to provide protection from predation. Rock outcroppings and wildlife trees (Class 8 and 9 [dead fallen]) were observed to be important sources of cover for snakes.</p> <p><u>Denning</u> Rock outcrops or talus habitat. Located on south facing slopes in Ponderosa Pine or Bunchgrass BEC zones.</p> <p><u>Egg-Laying Site Characteristics</u> South to southeast facing slopes, but are more likely to be found in abandoned rodent burrows than in talus or rock outcrops. Well drained sites.</p> <p><u>Structural Stage</u> 1, 2 and 3</p> <p><u>Elevation</u> 250-1100m</p>

Result

5.2.2.4.1 Definitions

In Paragraphs 5.2.2.4.1 & 5.2.2.4.2:

“**Core Area**” means an area within 200 metres (slope distance) of an ***Occurrence Site***;

“**Occurrence Site**” means the location of an occurrence of Great Basin Gopher Snake, as identified spatially:

- (a) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
- (b) in a Wildlife Habitat Area proposed by the ministry responsible for Environment not less than 12 months prior to cutting authority application or amendment, that is located outside an ***Established Cutblock*** or ***Established Road***.

“**Initial Silviculture Activities**” means the latter of site preparation, initial tree planting, or debris pile burning.

5.2.2.4.2 Limitations on Harvesting and Road Construction

A ***Holder of this FSP*** will within a ***Core Area***:

- (a) not construct a new road unless no practicable alternative location exists;
- (b) not harvest timber unless required for safety reasons;
- (c) not employ the use of pesticides; and
- (d) when a new road is constructed within a ***Core Area***, where is no other practicable option, a ***Holder of the FSP*** will:
 - (i) not construct a road between April and October of any given year;
 - (ii) not remove or disturb rock outcrops, talus slopes or concentrations of boulders;
 - (iii) restrict access to newly constructed temporary road within a ***Core Area*** to the extent that it is non-passable to a standard four-wheel drive pickup truck within one year of the completion of the ***Initial Silviculture Activities*** on the ***Cutblock*** accessed by the road; and
 - (iv) where the road is a permanent road, accessing timber beyond the ***Core Area***, seek advice from ***MFLNRO*** staff on specific management strategies determined to be necessary, and implement those strategies.

5.2.2.5 Spotted Bat	
Information about the Notice	
Amount	16 ha for the Cascades Forest District, not exceeding an impact to the mature timber harvesting land base of 4 ha.
Distribution	<p>1. The amount of habitat referenced above must be distributed to provide</p> <ul style="list-style-type: none"> • areas of suitable habitat of the size, spatial distribution and connectivity identified in the species account for Spotted Bat in the <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004). <p>2. The areas described above are located within the biogeoclimatic units and preferred elevations identified in the species account for Spotted Bat in the <i>Accounts and Measures for Managing Identified Wildlife</i> in the Identified Wildlife Management Strategy Version 2004.</p>
Attributes	<p><u>Size</u> 5-10 ha; the area should be related to the size of the roost feature (i.e., cliff face) and may in some cases be larger than 10 ha. The core of the area will consist of the roost cliff and talus base; the management zone should be 100 m around the roost cliff.</p> <p><u>Roosting Habitat Features</u> Steep, high cliffs within a few kilometers of suitable feeding areas (riparian areas, marshes, fields, grasslands, and open forest) and close to a source of water are important as day roosts. These sites are typically located in crevices in steep, tall cliffs.</p> <p><u>Foraging Habitat Features</u> Grassland, parkland, forest, wetland, and riparian areas. Foraging corridors, such as lake edges, may also be used.</p> <p><u>Structural Stage Elevation</u> There are no structural stage preferences known for this species, as they roost in large cliffs and often forage well above the canopy. Variable. Typically between 300 to 900 m, although most occurrences are below 500 m. In other parts of its range, it has been found from sea level to 3300 m.</p>

Result

5.2.2.5.1 Definitions

In Paragraphs 5.2.2.5.1 & 5.2.2.5.2:

“**Core Area**” means an area not less than 5 hectares, incorporating an *Occurrence Site* and any cliff feature or talus slope within 150 metres (slope distance) of the *Occurrence Site*;

“**Management Area**” means the area located 100 metres (slope distance) from the edge of a *Core Area*; and

“**Occurrence Site**” means the mapped location of Spotted Bat where cliff features or talus slope is also present, and is identified spatially:

- (a) in the *Applicable SAR Notice*;
- (b) by the BC Conservation Data Centre not less than 12 months prior to cutting authority application or amendment; or
- (c) in a Wildlife Habitat Area proposed by the ministry responsible for Environment not less than 12 months prior to cutting authority application or amendment, that is located outside of an *Established Cutblock* or *Established Road*.

5.2.2.5.2 Limitations on Harvesting and Road Construction

A *Holder of this FSP* harvesting a *Cutblock* to which this *FSP* applies will:

- (a) not harvest within a *Core Area* unless required for safety reasons;
- (b) employ a partial cut harvest method in the *Management Area*, retaining at least 50% of the pre-harvest basal area at the completion of harvest;
- (c) not construct a road in a *Core Area* or a *Management Area* unless there is no practicable alternative road location;
- (d) not remove rock or talus from the *Core Area* or *Management Area*;
- (e) not carry out forestry practices from one hour after sunset and one hour before sunrise between March and October in a *Management Area*; and
- (f) not use pesticides within the *Core Area* or *Management Area*.

5.2.2.6 Williamson's Sapsucker	
Information about Applicable Objective	
Objective	As per the District Manager Letter of Expectation regarding Forest Stewardship Plans – Species at Risk, implementation of Best Management Practices for Williamson's Sapsucker has been addressed in this section.
Date in Effect	The District Manager Letter of Expectation was dated June 2, 2016.

Strategy For Williamson's Sapsucker

5.2.2.6.1 Definitions

“Best Management Practices for Timber Harvesting, Roads and Silviculture for Williamson's Sapsucker in British Columbia: Western Area of Occupancy” is the guiding document for this strategy, and can be found at:

<http://a100.gov.bc.ca/pub/eirs/finishDownloadDocument.do?subdocumentId=9693>

“Western Area of Occupancy” is the area of habitat for Best Management Practice consideration as outlined by *MFLNRO* on the FTP site:

ftp.geobc.gov.bc.ca/publish/Regional/Kamloops/Species_At_Risk/Williamsons_Sapsucker/

5.2.2.6.2 Operations within Western Area of Occupancy

A *Holder of this FSP* harvesting a *Cutblock* to which this *FSP* applies will:

- (a) Prior to harvesting within the *Western Area of Occupancy*:
 - (i) Utilize the *Best Management Practices for Timber Harvesting, Roads and Silviculture for Williamson's Sapsucker in British Columbia: Western Area of Occupancy* for guidance on retention levels and recommended operational processes. Based on site-specific attributes available, strategies to mitigate impacts on the population and distribution goals, as stated in the Best Management Practices document, will be included in the site plan.

5.2.3 Water, Fish, Wildlife and Biodiversity within Riparian Management Areas (*FPPR* ss.8 and 12(3))

Information about Applicable Objective

Objective	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.
Date in Effect	This objective was established on the coming into force of the Forest Planning and Practices Regulation on January 31, 2004.

Result and Strategy

5.2.3.1 Definitions

In Paragraphs 5.2.3.1 to 5.2.3.6:

“**RMZ Affected Area**” means the area of Riparian Management Zone (RMZ) contained within either:

- (a) each **Cutblock** to which this **FSP** applies; or
- (b) a **Wildlife Tree Retention Area** associated with that **Cutblock** as described under Paragraph 5.2.5.2 or 5.2.5.3.

“**RMZ Retained Basal Area Equivalency**” means, for a 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:

$$\text{Area} = (\text{proportion of RMZ basal area retained at completion of harvest}) \times (\text{harvested RMZ area})$$

“**RMZ Retention**” means the treed proportion of the **RMZ Affected Area** retained at the completion of harvest based on a combination of RMZ area reserved from harvest and **RMZ Retained Basal Area Equivalency**, determined from the following equation:

$$\% = \frac{(\text{RMZ area reserved from harvest}) + (\text{RMZ Retained Basal Area Equivalency})}{\text{RMZ Affected Area}} \times 100$$

5.2.3.2 General Conservation of Values within Riparian Areas

Each **Holder of this FSP** adopts as a result or strategy for activities of that Holder to which this **FSP** applies sections 47(4) to (6) (**Stream Riparian Classes**), 48(3) to (5) (**Wetland Riparian Classes**), 49(2), 49(3) (**Lake Riparian Classes**), 50(1) (**Restrictions in a Riparian management area**), 51(1) & (3) (**Restrictions in a Riparian Reserve Zone**), 52(2) (**Restrictions in a Riparian Management Zone**) and 53 (**Temperature Sensitive Streams**) of the **FPPR** as those sections were on the **Legislated Planning Date** of this **FSP**.

5.2.3.3 Retention in a Riparian Management Zone

For the purposes of this section, the following riparian classification attributes (as summarized) apply (as outlined in the *FPPR* Division 3- Riparian Areas):

Riparian Classification Table:

Riparian Class	Size (width in m) or (area in ha)	Fish / Non-Fish	<i>BEC</i> Zones / Notes
S1-A stream	= or > 100 m	Fish	Any / Over 1 km
S1-B stream	20 m - < 100 m	Fish	Any
S2 stream	5 m - < 20 m	Fish	Any
S3 stream	1.5 m - < 5 m	Fish	Any
S4 stream	< 1.5 m	Fish	Any
S5 stream	> 3 m	Non-Fish	Any
S6 stream	< or = 3 m	Non-Fish	Any
L1-A	= or > 1000 ha	N/A	Any
L1-B	>5 ha - <1000 ha	N/A	Any / or as designated
L2	1 ha - 5 ha	N/A	PP/BG/IDF (xh1, xh2, xw, xm), CDF, CWH (xm1, xm2, dm, ds1)
L3	1ha - 5ha	N/A	All those not listed for L2
L4	0.25 ha – 1 ha	N/A	PP/BG/IDF (xh1, xh2, xw, xm)
L4	0.5 ha – 1 ha	N/A	CDF, CWH (xm1, xm2, dm, ds1)
W1	>5 ha	N/A	
W2	1 ha – 5 ha	N/A	PP/BG/IDF (xh1, xh2, xw, xm), CDF, CWH (xm1, xm2, dm, ds1)
W3	1 ha – 5 ha	N/A	All those not listed for W2
W4	0.25 ha – < 1 ha	N/A	PP/BG/IDF (xh1, xh2, xw, xm)
W4	0.5 ha - < 1ha	N/A	CDF, CWH (xm1, xm2, dm, ds1)
W5	Any wetland with overlapping RMA's resulting in combined area > 5 ha	N/A	Proximity rules apply as follows: a) 2 or more W1 areas within 100m of each other; b) a W1 and one or more non-W1 within 80m of each other; c) 2 or more non-W1 within 60m of each other.

A **Holder of this FSP** harvesting a **Cutblock** to which this **FSP** applies that includes a riparian management zone will not cause the **RMZ Retention**, at the completion of that harvesting, to be less than the amounts listed in the RMZ Retention Table.

Under the following circumstances or conditions, the amounts listed in the RMZ Retention Table will be achieved only to the extent it is practicable to do so. Specifically, where harvesting is:

- consistent with *FPPR* sec. 50;
- conducted utilizing a harvest system that precludes the achievement of the **RMZ Retention** specified in the RMZ Retention Table, and there is no other practicable harvest system alternative to harvest the **Cutblock**;
- for carrying out a sanitation treatment;
- for felling or modifying a tree that has been wind thrown or has been damaged by fire, insects, disease or other causes, if the felling or modifying will not have a material adverse impact on the riparian management zone; and

- (e) for felling or modifying a tree for the purpose of establishing or maintaining an interpretive forest site, recreation site, recreation facility or recreation trail.

RMZ Retention Table:

Riparian Class	RMA (m)	RRZ (m)	RMZ (m)	RMZ Retention (%)
S1-A stream	100	0	100	50
S1-B stream	70	50	20	50
S2 stream	50	30	20	25
S3 stream	40	20	20	25
S4 stream (fish bearing)	30	0	30	30
S4 stream (non-fish bearing) within Community Watershed	30	0	30	30
S5 stream	30	0	30	30
S6 stream (≥ 1.5 m wide, harvest method is ground based)	20	0	20	25
S6 stream (≥ 1.5 m wide, harvest method other than ground based)	20	0	20	10
S6 stream (< 1.5 m wide)	20	0	20	10
L2	30	10	20	25
L3	30	0	30	25
L4	30	0	30	25
W1/W5	50	10	40	25
W2	30	10	20	25
W3 wetland (3 ha – 5 ha)	30	0	30	25
W3 wetland (1 ha - < 3 ha)	30	0	30	10
W4	30	0	30	25

5.2.3.4 Restricted Operation of Machinery

A **Holder of this FSP** harvesting a **Cutblock**, or carrying out a silviculture treatment, to which this **FSP** applies that includes a riparian management zone of an S4, S5, or an S6 stream, will not permit the tracks or wheels of ground-based machinery within 5 metres of a stream bank for the purpose of protecting natural vegetation including brush, advanced regeneration and deciduous trees.

5.2.3.5 Alternative Strategies to Restricted Operation of Machinery

Paragraph 5.2.3.4 applies only to the extent practicable:

- (a) at stream crossings;
- (b) for the purpose of removing trees to address a safety concern;
- (c) where operating the machinery more than 5 metres from the stream bank will create a higher risk of sediment delivery; or
- (d) where the harvesting or treatment is conducted in a manner that protects stream banks and minimizes damage to natural vegetation.

5.2.3.6 Stream Crossings – Protection of Water Quality and Aquatic Ecosystems

A **Holder of this FSP** who builds a road and constructs a stream crossing will do so in accordance with the Water Sustainability Regulation Sec. 43 & 44.

5.2.4 Wildlife and Biodiversity – Landscape Level (FPPR s.9)	
Information about Applicable Objective	
Objective	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.
Date in Effect	This objective was established on the coming into force of the Forest Planning and Practices Regulation on January 31, 2004.

Result

5.2.4.1 Maximum Cutblock Size and Harvesting Adjacent to another Cutblock

Each ***Holder of this FSP*** adopts as a result or strategy for activities of that Holder to which this ***FSP*** applies sections 64(1) (***Maximum Cutblock Size***) and 65(2) (***Harvesting Adjacent to Another Cutblock***) of the ***FPPR*** as those sections were on the ***Legislated Planning Date*** of this ***FSP***.

5.2.5 Wildlife and Biodiversity – Stand Level (FPPR s.9.1)	
Information about Applicable Objective	
Objective	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.
Date in Effect	This objective was established on the coming into force of the Forest Planning and Practices Regulation on January 31, 2004.

Result

5.2.5.1 Definitions

In Paragraphs 5.2.5.1 to 5.2.5.4:

“**Assessment Group**” means, for each licence to which this *FSP* applies, all of the *Cutblocks* belonging to cutting permits issued in each calendar year;

“**Gross Block Area**” means the area of a *Cutblock* that includes the net area to be reforested and the area occupied by permanent access structures. Unlike the definition for *Gross Cutblock Area* under the soils Paragraph 5.2.1.1, it does not include internal reserves and non-productive areas.

“**Wildlife Tree Retention Area**” (as defined in *FPPR* Section 1(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*; and
- (d) such that for the purposes of Paragraphs 5.2.5.2 & 5.2.5.3, a *Wildlife Tree Retention Area* may relate to more than one *Cutblock* if all of the *Cutblocks* that relate to the *Wildlife Tree Retention Area* collectively meet the *WTR* requirements.

“**Wildlife Tree Retention (WTR)**” means the area composed of either of the following or a combination of them:

- (a) a *Wildlife Tree Retention Area*; and
- (b) the area of wildlife trees retained within a *Cutblock* based on the following formula:

$$\text{Area} = \frac{(\text{“Net Area to be reforested” of the Cutblock}) * (\text{basal area reserved from harvesting})}{(\text{Original basal area of the Cutblock})}$$

5.2.5.2 Wildlife Tree Retention for Each Assessment Group - Result replacing *FPPR* section 66(1) and 66(3)

A *Holder of this FSP* who harvests timber on a *Cutblock* to which this *FSP* applies will ensure that, upon the expiry of the final cutting permit in the *Assessment group*, that the total *Wildlife Tree Retention* that relates to the *Cutblocks* within the *Assessment group* will be a minimum of 7% of the *Gross Block Area* of all blocks in the assessment group.

5.2.5.3 Wildlife Tree Retention for a Single *Cutblock* - Result replacing *FPPR* section 66(2) and 66(3)

A *Holder of this FSP* harvesting timber on a *Cutblock* that exceeds a *Gross Block Area* of 2 hectares to which this *FSP* applies will ensure that, on completion of the harvesting, the total *Wildlife Tree Retention* that relates to the *Cutblock* will be a minimum of 3.5% of the *Gross Block Area*.

5.2.5.4 Restrictions on Harvesting Wildlife Tree Retention - Result replacing *FPPR* section 67

A *Holder of this FSP* will not harvest *Wildlife Tree Retention* it has provided under Paragraph 5.2.5.2 or 5.2.5.3, or another Licensee's *WTR*, unless:

- (a) the trees on the “net area to be reforested” of the *Cutblock* to which the *Wildlife Tree Retention* relates have developed attributes consistent with a mature seral condition; or
- (b) a *Holder of this FSP* specifies in a site plan, on or before the reporting of harvest completion of the *Cutblock* a replacement area, number of trees or habitat that is equivalent to the portion of the *WTR* from which timber is to be harvested; and
 - (i) if the harvest involves another Licensee's *WTR*, ensure communication and agreement from the other Licensee, prior to harvest, for the necessary updating of forest cover, and to avoid damage to potential unknown values found within the *WTR*.

5.2.6 Cultural Heritage Resources (FPPR s.10)	
Information about Applicable Objective	
Objective	The objective set by government for <i>Cultural Heritage Resources</i> is to conserve, or, if necessary, protect <i>Cultural Heritage Resources</i> 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 <i>Heritage Conservation Act</i> .
Date in Effect	This objective was established on the coming into force of the Forest Planning and Practices Regulation on January 31, 2004.

Result and Strategy

5.2.6.1 Definitions

In Paragraph 5.2.6.1 and 5.2.6.2:

“Potentially Affected First Nations” means those First Nations with interest in an area as defined by the Consultative Areas Database, and those First Nations who have expressed an interest within an area directly to the *FSP* Holder, in whose interest area new *Cutblocks* or roads are located;

“Cultural Heritage Resource (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” as defined in the *Forest Act*, and to which the objective pertains;

“CHR Evaluation” means an office and/or field based process conducted by an authorized member of a *Potentially Affected First Nation* or a *Qualified Professional*, to assess the existence, significance of, and potential direct impact of primary forest activities on a *CHR*. A *CHR Evaluation* is conducted where information regarding the presence, relative value and abundance of a *CHR* has been provided through a referral with and when recommended by a *Potentially Affected First Nation*, and may provide recommendations to mitigate the direct impact of primary forest activities on a *CHR*;

“CHR Evaluation Protocol” means a signed agreement or the portion of a signed agreement between the *FSP* Holder and a First Nation that defines the framework and timing of a *CHR Evaluation*;

“CHR Mitigation Strategy” means:

- (a) a plan to mitigate the direct impact of primary forest activities on a *CHR*, based on:
 - (i) the relative value or importance of a particular *CHR* to a traditional use by an aboriginal people;
 - (ii) the relative abundance or scarcity of a *CHR* that is the focus of a traditional use by an aboriginal people;

- (iii) the historical extent of a traditional use by an aboriginal people of a **CHR**;
- (iv) the impact on government granted timber harvesting rights of conserving or protecting a **CHR** that is the focus of a traditional use by an aboriginal people; and
- (v) options for mitigating the impact that a forest practice might have on a **CHR** that is the focus of a traditional use by an aboriginal people.

5.2.6.2 Cultural Heritage Resources Strategy

In relation to the objective for **Cultural Heritage Resources** that is set out in Section 10 of the **FPPR**, where a **CHR Evaluation** has not been completed on a new **Cutblock** or road, the **FSP** Holder will:

- (a) where a **CHR Evaluation Protocol** has been developed with a **Potentially Affected First Nation**, follow the protocol where new **Cutblocks** or roads are proposed;
- (b) in the absence of a **CHR Evaluation Protocol** and prior to harvesting a **Cutblock** or constructing a road:
 - (i) refer areas where new **Cutblocks** or roads are proposed to **Potentially Affected First Nations**, requesting that the **Potentially Affected First Nation**:
 - (A) indicate the presence, relative value and abundance of a **CHR**; and
 - (B) identify where a **CHR Evaluation** is recommended;
 - (ii) where a **Potentially Affected First Nation** responds and identifies the need for a **CHR Evaluation**, ensure a **CHR Evaluation** is completed;
 - (iii) where a **CHR Evaluation** includes recommendations to mitigate the direct impact of primary forest activities on a **CHR**, develop a **CHR Mitigation Strategy** in conjunction with the **Potentially Affected First Nation**; and
 - (iv) where a **CHR Mitigation Strategy** cannot be agreed upon with the **Potentially Affected First Nation**, or advice is received without a mitigating recommendation or strategy, advice will be sought from **MFLNRO** district staff on how to proceed.
- (c) conduct primary forest activities consistent with the **CHR Mitigation Strategy**.

5.2.7 Water in Community Watersheds (FPPR s.8.2)	
Information about Applicable Objective	
Objective	<p>The objective set by government for water being diverted for human consumption through a licensed waterworks in a community watershed is to prevent the cumulative hydrological effects of primary forest activities within the community watershed from resulting in:</p> <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> (i) an enactment; or (ii) the licence pertaining to the waterworks. <p>This objective applies only to the extent that it does not unduly reduce the supply of timber from British Columbia's forests.</p>
Date in Effect	This objective was established with the coming into force of an amendment to the Forest Planning and Practices Regulation on February 25, 2005.

Strategy

5.2.7.1 Definitions

In Paragraphs 5.2.7.1 to 5.2.7.4:

“Community Watershed Assessment” means an analysis of the cumulative hydrological effects of existing and proposed primary forest activities within a ***Designated Community Watershed***, conducted at the watershed level, which will consider the potential for the activities to cause:

- (a) a material adverse impact on the quantity of water or the timing of the flow of the water from the licensed waterworks; and
- (b) the water from the licensed waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under an enactment, or the licence pertaining to the licensed waterworks.

The assessment will include recommendations to mitigate the identified impacts to water quantity, timing of flow, and water quality.

An existing assessment is considered relevant if the circumstances of the assessment or conditions within the watershed are unchanged from the time of the assessment;

“Designated Community Watershed” means the following: Anderson, Bell, Brook, Dillard, Hackett, Kwinshatin, Lee, Skuagam & Thomas.

5.2.7.2 General Conservation of Water Quality and Licensed Waterworks

Each **Holder of this FSP** adopts as a result or strategy for activities of that Holder to which this **FSP** applies sections 59 (**Protecting Water Quality**), 60(2) (**Licensed Waterworks**) and 61 (**Excavated or Bladed Trails**) of the **FPPR** as those sections were on the **Legislated Planning Date** of this **FSP**.

5.2.7.3 Limitations on Harvesting and Road Construction

Subject to Paragraph 5.2.7.4, if a **Holder of this FSP** is harvesting timber or constructing a road to which this **FSP** applies in a **Designated Community Watershed** that:

- (a) is defined in section 8.2(1) of the **FPPR**;
- (b) is located in an **FDU**; and
- (c) contains a licensed waterworks through which water is being diverted for human consumption;

that Holder will:

- (d) before carrying out timber harvesting or road construction:
 - (i) confirm the relevance of the most recent **Community Watershed Assessment** if one has been completed;
 - (ii) if the most recent assessment is no longer relevant, ensure a **Qualified Professional** updates the existing assessment or completes a new **Community Watershed Assessment**; or
 - (iii) if an assessment has not been completed on the **Designated Community Watershed**, ensure a **Qualified Professional** completes a **Community Watershed Assessment**;
- (e) subject to Subparagraph (f), conduct primary forest activities consistent with the recommendations in relevant, updated or newly completed **Community Watershed Assessment**; and
- (f) if the **Community Watershed Assessment** recommends limits on the amount of harvesting or road construction within that **Designated Community Watershed**, ensure that the harvesting of a **Cutblock** or construction of a road to which this **FSP** applies by that Holder in that community watershed will, when added to any **Established Cutblocks** or **Established Roads** in that community watershed, not cause these limits to be exceeded at the completion of harvesting or road construction.

5.2.7.4 Alternative Result

Paragraph 5.2.7.3 does not apply where a ***Holder of this FSP*** undertaking the harvesting or road construction is granted an exemption under section 8.2(4) or (5) of the ***FPPR***.

5.3 Other Objectives Established or Continued under *FRPA*

5.3.1 Scenic Areas (*Act* ss.180 and 181)

Information about Applicable Objective

Objective	Visual quality objectives and their applicable scenic areas are identified on the map in Appendix B to this <i>FSP</i> .
Date in Effect	These objectives were established by the District Manager, Cascades Forest District, under the authority of the <i>Forest Practices Code of British Columbia Act</i> on September 30, 2003.

Result

5.3.1.1 Definitions

In Paragraphs 5.3.1.1 to 5.3.1.3:

“**Landform**” means a distinct topographic feature, three dimensional in form, that is generally defined by ridges, valleys, shorelines and skylines, a number of which can make up a complete landscape;

“**Significant Public Viewpoint**” means a location which is on the water or land that is accessible to the public, provides a viewing opportunity and has relevance to the **Landform** being assessed. The viewpoint used in the **VLI** is not necessarily a **Significant Public Viewpoint**;

“**Visual Quality Objective**” (**VQO**) as defined in *FPPR* Section 1. **VQO** spatial and attribute data is housed in the BC Geographic Warehouse;

“**Visual Landscape Inventory**” (**VLI**) means an inventory that identifies and delineates areas of visual sensitivity near communities and along travel corridors throughout the province. It includes information about the visual condition, characteristics and sensitivity to alteration. It also contains scenic area and established **VQO** attributes. **VLI** spatial and attribute data is housed in the BC Geographic Warehouse;

“**Visual Landscape Unit**”: is a component of the **VLI** and means a distinct topographical unit as viewed from one or more viewpoints;

5.3.1.2 Limitations on Harvesting and Road Construction

Subject to Paragraph 5.3.1.3, where a **Holder of this FSP** harvests a **Cutblock** or constructs a road within a **Visual Landscape Unit**, the resulting visual alteration (including **Established Cutblocks** and **Established Roads**) when assessed from a **Significant Public Viewpoint** at completion of harvesting or road construction will be consistent with the applicable category described in *FPPR* Section 1.1 (*Categories of Visually Altered Forest Landscape*) based on the **Visual Quality Objective**.

5.3.1.3 Alternative Result and Strategy if Exemption Approved

Where the **Minister** exempts a **Holder of this FSP** under section 12(7) of the **FPPR** from the requirement to specify a result or strategy in relation to a particular area, and in relation to the **Visual Quality Objective**, Paragraph 5.3.1.2 does not apply to the extent it is not practicable.

The harvesting or road construction being conducted in the particular **Visual Landscape Unit** will adhere to any conditions imposed by the **Minister** as well as the following:

- (a) measures are carried out to reduce the visual acuity and/or perceived scale of the resulting harvest by:
 - (i) designing **Cutblocks** and roads in a manner consistent with the design elements of the established **VQO**:
 - (A) mimicking natural line and form;
 - (B) incorporating irregular **Cutblock** boundaries; and/or
 - (C) retaining dispersed or groups of timber; and
 - (ii) considering the distance from the **Cutblock** as assessed from a **Significant Public Viewpoint**, and the position that the **Cutblock** occupies on the **Landform**;
- (b) the extent of alteration does not exceed the amount necessary to address the current circumstances or conditions, such as **Damaged Timber**; and
- (c) a rationale is prepared to support the Categories of Visually Altered Forest Landscape design that indicates the level of consistency with the components (scale, visual acuity and design) of the **VQO**.

5.3.2 Objectives for interpretive forest sites, recreation sites and recreation trails (*FRPA* ss.180 and 181)

Information about Applicable Objective

Objective	Objectives for recreation sites and recreation trails are included in Appendix D.
Date in Effect	The above objectives were established by the District Manager, Cascades Forest District, under the authority of the Forest Practices Code Act on January 31, 2000.

Result and Strategy

5.3.2.1 Definitions

In Paragraphs 5.3.2.1 to 5.3.2.4:

“**Objective**” means an *Objective* established in the *Order*;

“**Order**” means the Order to Establish Objectives for a Recreation Site, Recreation Trail or Interpretive Forest Site applicable to the Cascades Forest District and dated January 31, 2000;

“**Site**” means a recreation site that is identified in the order and on the map in Appendix B; and

“**Trail**” means an observable or marked path, identifiable in the field within a specific location identified as a recreation trail in the order and on the map in Appendix B.

5.3.2.2 Limitations on Primary Forest Activities

Where a *Holder of this FSP* harvests a *Cutblock* or constructs a road within a recreation site or trail polygon, a section 16 “authorization to use” under the Forest Recreation Regulation will be required, and

a *Holder of this FSP* carrying out a primary forest activity under a *CP* or *RP* to which this *FSP* applies in an area of an *FDU* subject to an *Objective* will:

- (a) if an *Objective* refers to managing a *Trail* for a “semi primitive experience” not construct a new permanent road within 50 metres (slope distance) of that *Trail* except for a crossing of the *Trail* or no other practicable option exists;
- (b) if an *Objective* refers to managing a *Trail* for a “semi primitive non-motorized recreation experience” not construct a new permanent road within 50 metres (slope distance) of that *Trail* except for a crossing of the *Trail* or no other practicable option exists. Measures will be implemented at new road crossings to significantly impede motorized access onto the *Trail* upon completion of road construction;
- (c) if an *Objective* refers to managing a *Site* for a “semi primitive motorized recreation experience” or “semi primitive non-motorized recreation experience”, not harvest a *Cutblock* or construct a new road within that *Site*;

- (d) if an **Objective** requires that a **Trail** or **Site** be maintained or conserved, not render that **Trail** or **Site** ineffective, as determined at the completion of a primary forest activity that directly affects that **Trail** or **Site**, if that **Trail** or **Site** is then being maintained by or on behalf of government;
- (e) if an **Objective** applicable to a **Site** requires the conservation of the lakeshore, river shore, or creek shore, not conduct primary forest activities within 10 metres (slope distance) of the identified shore;
- (f) if an **Objective** requires the conservation of vegetation or natural vegetation adjacent to a **Trail** or **Site**:
 - (i) not use tracks or wheels of ground based machinery within 2.5 metres (slope distance) of that **Trail** or **Site**, except for a crossing of the **Trail**, unless no other practicable option exists; and
 - (ii) not harvest wind-firm trees that do not pose a forest health risk within 2.5 metres (slope distance) of that **Trail** or **Site** except at crossings of the **Trail**;
- (g) subject to Subparagraphs (a), (c) and (e), if an **Objective** prohibits motorized use of a **Trail**, not carry on such prohibited use except to the extent necessary to facilitate harvesting or road construction and use on or contiguous to that **Trail**.

5.3.2.3 Alternative Result

Paragraph 5.3.2.2 applies only to the extent practicable where:

- (a) the **MFLNRO** District Recreation staff agrees in writing to the proposed primary forest activity; and
- (b) the primary forest activity is conducted in a manner consistent with any conditions identified by the **MFLNRO** District Recreation staff.

5.3.2.4 Result & Strategy for Established Recreation Sites and Trails without *Objectives*.

Established *Site* and *Trail* locations are those found in “Data BC”:

<http://www.data.gov.bc.ca>

Where a *Holder of this FSP* harvests a *Cutblock* or constructs a road within a recreation site or trail polygon, a section 16 “authorization to use” under the Forest Recreation Regulation will be required and a *Holder of this FSP* will:

a) **for Trails:**

- (i) remove debris and re-establish the trail tread at the completion of harvest and/or road construction to the condition prior to the incursion;
- (ii) minimize road crossings to prevent damage to the *Trail*;
- (iii) erect signage notifying trail users of the activity during operations;
- (iv) target harvest during periods of low use (e.g. winter harvest for summer *Trails* and vice-versa);

b) **For Sites:**

- (i) rehabilitate any direct impacts to a *Site*, or access to it, as close to its original state as possible;
- (ii) target harvest during periods of low use (e.g. winter harvest for summer use *Sites*, and vice-versa).

6 Stocking Standards	
Information about Applicable Measure	
Source	FPPR s. 16
	<p>(1) A person required to prepare a forest stewardship plan must ensure that the plan specifies the situations or circumstances that determine when section 44 (1) [<i>free growing stands generally</i>] or section 45 [<i>free growing stands collectively across Cutblocks</i>] will apply to an area.</p> <p>(2) In specifying a stocking standard under this section, a person who prepares a forest stewardship plan may consider the factors set out in section 6 [<i>factors relating to stocking standards</i>] of Schedule 1.</p> <p>(3) A person required to prepare a forest stewardship plan must ensure that the plan specifies, for each of the situations or circumstances specified under subsection (1) where</p> <p>(a) section 44 (1) (a) will apply, the regeneration date and stocking standards,</p> <p>(b) section 44 (1) (b) will apply, the free growing height and stocking standards,</p> <p>(c) section 45 (1) will apply, the regeneration date and the stocking standards, and</p> <p>(d) section 45 (2) will apply, the free growing date and the stocking standards, as approved by the chief forester.</p> <p>(4) A person required to prepare a forest stewardship plan must ensure that the plan specifies stocking standards for areas referred to in section 44 (4), and the situations or circumstances that determine when the stocking standards will be applied.</p> <p>(5) A holder of a major licence that is a forestry licence to cut entered into under section 24.8 of the Forest Act or converted into a forestry licence to cut under section 24.9 of the Forest Act is exempt from this section.</p> <p>[am. B.C. Regs. 62/2005, s. 3; 102/2005, s. 1.]</p>
Source	FPPR s. 44
	<p>(1) A person who has an obligation to establish a free growing stand must establish, for areas that have been identified under section 16 (1) [<i>stocking standards</i>] as areas to which this section will apply, a stand that</p> <p>(a) meets the applicable stocking standards set out in the forest stewardship plan for the area, by the applicable regeneration date specified for the area, and</p> <p>(b) meets the applicable stocking standards and free growing height set out in the forest stewardship plan for the area by a free growing date that is no more than 20 years from the commencement date, unless the minister permits a later free growing date.</p> <p>(2) If an Agreement Holder contravenes section 52 (1) [<i>unauthorized timber harvesting</i>] of the Act, the holder must establish, on the area on which the contravention occurred, a stand that meets the requirements specified in the holder's forest stewardship plan for an area with similar attributes, as if the area on which the contravention occurred had been identified under section 16 (1) as being subject to this section.</p> <p>(3) A person is exempt from the requirements of section 29 (1) and (2) [<i>free growing stands</i>] of the Act in respect of an area if timber harvesting is restricted to one or more of the following:</p> <p>(a) harvesting timber to eliminate a safety hazard;</p> <p>(b) harvesting timber to facilitate the collection of seed, leaving an opening not greater than 1 ha;</p> <p>(c) removing felled trees from landings and road rights of way;</p>

	<p>(d) harvesting trees on land that is, or will be, exclusively used for harvesting hay or grazing livestock in accordance with an agreement under the Range Act;</p> <p>(e) harvesting timber for experimental purposes if, in the opinion of the minister, the harvesting will be carried out under controlled scientific or investigative conditions;</p> <p>(f) clearing areas for or within a recreation site or recreation trail;</p> <p>(g) felling and removing trees that have been or will be treated to facilitate the entrapment of pests;</p> <p>(h) commercial thinning, removal of individual trees, or a similar type of intermediate cutting;</p> <p>(i) harvesting special forest products.</p> <p>(4) A person who harvests timber for the reasons referred to in subsection (3) (h) and (i) must ensure that, for a period of 12 months after completion of harvest, the area on which timber harvesting was carried out conforms to the stocking standards specified in section 16 (4) for the area.</p> <p>[am. B.C. Regs. 580/2004, s. 33; 152/2007, s. 1.]</p>
Source	FPPR s. 45
	<p>(1) If a person specifies in a forest stewardship plan under section 16 (1) [<i>stocking standards</i>] that the requirement to be met by the regeneration date relates to a group of Cutblocks, the person must establish stands on the net areas to be reforested that conform to the applicable stocking standards by the applicable regeneration date, as identified under section 16 (3) (c).</p> <p>(2) If a person specifies in a forest stewardship plan, under section 16 (1), that the requirement to be met by the free growing date relates to a group of Cutblocks, the person must establish stands on the net areas to be reforested that conform to the applicable stocking standards by the applicable free growing date as identified under section 16 (3) (d).</p>
Source	FRPA ss. 29
	<p>(1) A holder of a major licence or community forest agreement who harvests timber to which a forest stewardship plan applies must establish in accordance with the plan, the prescribed requirements and the standards, a free growing stand on those portions of the area of the harvest that are in the net area to be reforested.</p> <p>(2) If the timber sales manager</p> <p>(a) has authorized the harvesting of timber under a timber sale licence that requires its holder to prepare a forest stewardship plan, or</p> <p>(b) is the holder of a forest stewardship plan,</p> <p>he or she must establish in accordance with the plan, the prescribed requirements and the standards, a free growing stand on those portions of the area of the harvest under the plan that are in the net area to be reforested.</p> <p>(3) A holder of a woodlot licence who harvests timber under the licence must establish a free growing stand on those portions of the area of the harvest that are in the net area to be reforested in accordance with</p> <p>(a) the woodlot licence plan, if any, that is pertinent to the licence,</p> <p>(b) the prescribed requirements, and</p> <p>(c) the standards.</p> <p>(4) [Repealed 2003-55-18.]</p> <p>(5) to (10) [Repealed 2004-36-89.]</p>

Source	<i>FRPA</i> 197(5)
	<p>(5) If, before the replacement under subsection (1) of a part of a forest development plan,</p> <p>(a) the holder</p> <p>(i) begins harvesting of a <i>Cutblock</i>, and</p> <p>(ii) is required to establish a free growing stand on an area harvested, and</p> <p>(b) the stocking standards specified in the plan apply to the net area to be reforested, unless otherwise specified in a forest stewardship plan, the stocking standards in the plan remain in effect until the free growing stand is established.</p>

6.1 Stocking Standards

A *Holder of this FSP* that is establishing a free growing stand:

- (a) under section 29 of the *Act*; or
- (b) on an area within a *Cutblock* listed in Appendix E to this *FSP*;

will do so in accordance with the stocking standards set out in Appendix A to this *FSP*.

See Appendix A for Stocking Standards. These stocking standards and variations were developed by the Thompson Okanagan Stocking Standards Working Group.

7 Measures to Prevent the Introduction or Spread of Invasive Plants	
Information about Applicable Measure	
Source	<i>FPFR</i> s. 17
	For the purpose of section 47 [<i>invasive plants</i>] of the <i>Act</i> , 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. [am. B.C. Reg. 580/2004, s. 15]
Source	<i>FRPA</i> s. 47
	<p>(1) A person carrying out a forest practice or a range practice must carry out measures that are</p> <p>(a) specified in the applicable operational plan, or</p> <p>(b) authorized by the minister</p> <p>to prevent the introduction or spread of prescribed species of invasive plants.</p> <p>(2) Despite expiry of the operational plan referred to in subsection (1) (a), subsection (1) continues to apply to the holder of that plan in respect of any area that is</p> <p>(a) in a forest development unit included in the plan, and</p> <p>(b) subject to a cutting permit or road permit issued in respect of the plan before the plan expired.</p> <p>(3) If a forest stewardship plan is amended to remove the holder of a licence or an agreement as a party to the plan, subsection (1) continues to apply to that holder in respect of any area that is</p> <p>(a) in a forest development unit included in the plan, and</p> <p>(b) subject to a cutting permit or road permit issued in respect of the plan before the plan was amended.</p>

7.1 Definitions

In Paragraphs 7.2 to 7.6:

“High Hazard Invasive Plants” means the following plants: Anchusa, Blueweed, Leafy Spurge, Hoary Cress, Scotch Thistle, Tansy Ragwort, Common Tansy, Orange Hawkweed, Knapweed Species (brown, black, spotted), Sulphur Cinquefoil, Hoary Alyssum, Rush Skeletonweed, Baby’s Breath, Perennial Pepperweed, Field Scabious, Teasel, and Scotchbroom, or as updated based on input from *FLNRORD* and *MOTI*;

“Invasive Plant Zone” means the zone as determined by the *Holders of this FSP*, and updated on an annual basis, designed to encompass, and buffer by 500 metres, the known locations of Invasive Plants contained in the Invasive Plant Regulation. The known locations are those identified in the Provincial government databases of invasive plants such as IAPP, as well as those observed in the field.

“Personnel” means persons working on behalf of the *Holders of this FSP* conducting activities such as road and *Cutblock* development, road inspections, site plan data collection, road and logging supervision, and silviculture surveys.

7.2 Education of Personnel

The **Holder of this FSP** will provide annual training to **Personnel** on reporting and identification of the **High Hazard Invasive Plants**.

7.3 Identifying and Reporting

The **Holder of this FSP** will ensure that a previously unidentified **High Hazard Invasive Plant** infestation within the **FDU**, as identified by **Personnel**, is reported through the Report-A-Weed app (www.gov.bc.ca/invasive-species) within 90 days of the **Holder of this FSP** becoming aware of the new infestation.

7.4 Seeding

If a **Holder of this FSP** exposes mineral soil:

- (a) within an **FDU**;
- (b) that results from the activities to which this **FSP** applies;
- (c) that results from the activities in the following table;
- (d) the exposure meets the criteria in the following table; and
- (e) it is likely that an invasive plant will be introduced or spread as a result of this exposure, the **Holder of this FSP** will seed the exposed area in accordance with Paragraph 7.5

Activity	Description of area to be seeded	Location of Exposed Mineral Soil
Construct, Reconstruct, or Deactivate	<ul style="list-style-type: none"> Permanent landings; Cut slopes, fill slopes and ditch lines of permanent roads 	Within the FDU (For greater clarity, this clause applies to areas both within and outside the Invasive Plant Zone described in Paragraph 7.1 of this FSP)
Construct or use	<ul style="list-style-type: none"> Borrow pit authorized under a RP or CP 	Within the FDU (For greater clarity, this clause applies to areas both within and outside the Invasive Plant Zone described in Paragraph 7.1 of this FSP)
Timber Harvesting, Silviculture Treatments, Road Construction and Road Deactivation	<ul style="list-style-type: none"> Exposed mineral soil exceeding 0.1 contiguous ha. (excluding the running surface of permanent roads) 	At the time the activity takes place, the activity is within an Invasive Plant Zone

7.5 Timing and Seed Quality

A **Holder of this FSP** referred to in Paragraph 7.4 will seed with Common #1 Forage Mixture or a forage mixture as recommended by **MFLNRO** range staff:

- (a) at least 90% of the total area exposed in a calendar year that requires seeding under Paragraph 7.4, by July 1 of the immediately following calendar year; and
- (b) the remainder of such exposed area prior to December 31 of the same immediately following calendar year.
- (c) if within an **“Invasive Plant Zone,”** where:
 - (i) within 24 months of the grass seeding identified in Subparagraph (a) above, it is identified during road inspections that the area is insufficiently revegetated (<10% cover); then

the exposed area will be re-seeded at least once in addition to the seeding identified in Subparagraph (a) above.

7.6 Inspection of Equipment

If a **Holder of this FSP** conducts timber harvesting, silviculture treatments, road construction, or road deactivation, to which this **FSP** applies, within a **Cutblock** or road which contains an **Invasive Plant Zone**, then the **Holder of this FSP** will ensure that the person conducting the activity will remove any observed invasive plant material, or significant accumulations of soil (greater than 2 litre accumulation) which may contain invasive plant material, from the machinery prior to that machinery being relocated outside of the **Cutblock** or road.

8 Measures to Mitigate the Effect of Removing or Rendering Ineffective Natural Range Barriers	
Information about Applicable Measure	
Source	<i>FPPR</i> s. 18
	For the purpose of section 48 [<i>natural range barriers</i>] of the <i>Act</i> , a person who prepares a forest stewardship plan must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers.
Source	<i>FRPA</i> s. 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.

8.1 Definitions

In Paragraphs 8.1 & 8.2:

“Natural Range Barriers” means naturally occurring features that stop or impede livestock movement to and from an adjacent area. They may include rivers, rock faces, shrub thickets, and standing or downed timber;

“Range Agreement Holder” means the holder of a range tenure as defined under the Range Act or Land Act;

“Mitigation Actions” means activities or range development installations constructed or installed consistent with Ministry standards and subject to Ministry approval, that have the purpose of replacing a *Natural Range Barrier* rendered ineffective by harvesting or road construction. These actions may include but are not limited to any or all of:

- (a) creation of logging debris fences;
- (b) adjusting *Cutblock* boundaries or road locations; and/or
- (c) installation of range developments such as fences, cattle guards or gates.

“NRB Mitigation Strategy” means is a plan developed to mitigate the removal or the rendering ineffective of a *Natural Range Barrier*, that specifies:

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

8.2 Natural Range Barriers Measures

In relation to the objectives set by government to mitigate the effect of removing or rendering ineffective *Natural Range Barriers*, a *FSP* Holder will:

- (a) on an annual basis, where new harvesting or road construction activities are proposed within existing *Range Tenure*, refer the proposed activities to the potentially affected *Range Agreement Holder*. The referral will:
 - (i) specify the location of the proposed harvesting and road construction; and
 - (ii) request that the *Range Agreement Holder* identify the location of *Natural Range Barriers* that may be rendered ineffective by the proposed harvesting or road construction; and
- (b) prior to harvesting a *Cutblock* or constructing a road:
 - (i) where the *Range Agreement Holder* responds prior to the submission of the *CP* or *RP* and identifies a *Natural Range Barrier* that will be removed or rendered ineffective, develop a *NRB Mitigation Strategy*, incorporating the information communicated by the *Range Agreement Holder* to the extent that it is practicable to do so;
 - (ii) where there is knowledge of a *Natural Range Barrier*, and where the *Range Agreement Holder* fails to respond to the referral, advise the *MFLNRO* District Range staff and ask for any input they may have;
 - (iii) where a *NRB Mitigation Strategy* cannot be agreed to with a *Range Agreement Holder*, develop a *NRB Mitigation Strategy* with input from the *MFLNRO* District Range staff and communicate the *NRB Mitigation Strategy* to the *Range Agreement Holder*;
 - (iv) where new harvesting or road construction is proposed in an area where *Range Tenure* is not currently assigned, refer the proposal to the *MFLNRO* District Range staff, as outlined in Subparagraph (a) above;
- (c) where the *MFLNRO* District Range staff responds prior to the submission of the *CP* or *RP* and identifies that a *Natural Range Barrier* will be removed or rendered ineffective, develop a *NRB Mitigation Strategy*, incorporating the information communicated by the *MFLNRO* District Range staff; and
- (d) conduct activities that are the responsibility of the *FSP* Holder consistent with the *NRB Mitigation Strategy*.

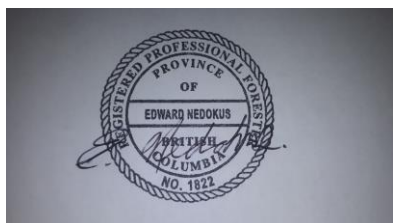
9 Signatures of Persons Authorized to Sign on Behalf of Persons Required to Prepare this *FSP*

Information about Applicable Measure

Source *FRPA* s. 5(3))

(3) A forest stewardship plan or an amendment to a forest stewardship plan must be signed by the person required to prepare the plan, if an individual or, if a corporation, by an individual or the individuals authorized to sign on behalf of the corporation.

Aspen Planers Ltd.
 Qwa'et Forest Products Ltd.
 Stuwix Resources Ltd.
 Lower Nicola Indian Band
 Cook's Ferry First Nation
 Coldwater Indian Band
 Nooaitch Indian Band
 Siska Indian Band
 Trace Resources Ltd.
 Nadina Logging Ltd.
 Millennium Forest Management Inc.
 489581 BC Ltd.
 Maka Contracting Ltd.
 Nicomen Indian Band
 Upper Nicola Band
 Basin Environmental Corp.
 Fusion Timber
 Kwila Resources Ltd.
 Dean Edward Thompson
 Shulus Forest Enterprises Inc.



Per: _____

Authorized signatory
 Ed Nedokus, RPF

Appendix A: Stocking Standards

1.0 Interpretation

1.1 Definitions

- (a) **“Wildland Urban Interface (WUI) Area”** means any area where combustible fuels (vegetation) are found adjacent to homes, farm structures, or other buildings. For the purpose of the Strategic Wildfire Prevention Initiative, the wildland interface is the area within 2 km of a community with densities of between 6 and 250 structures per square kilometer.

2.0 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-Hygic” – 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-hygic 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 1: Thompson Okanagan Regional Stocking Standards Even Age (Dec. 9th 2021)

BGC Classification		Regeneration and Free Growing Stocking Standard									
Zone/S Z	Site Series	Stocking Standards ID	Preferr ed (p) Specie s	Accept able (a) Species	Density			Reg en. Dela y (ma x yrs)	Free Grow ing Date Late st (yrs)	MI TD	Minimum Height at Free Growing Species-Height (m)
CWHms 1 ⁴⁷	01	10699 12	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
CWHms 1 ⁴⁷	02*	10699 13	Pl Fd		400	200	200	3	20	1.0	Fd-1.5, Pl-1.25
CWHms 1 ⁴⁷	03	10699 14	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
CWHms 1 ⁴⁷	04	10699 15	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
CWHms 1 ⁴⁷	05	10699 16	Cw Hw Yc ^{13,17} Ba ^{10,13}		900	500	400	6	20	2.0	Ba-0.75, Others- 1.5
CWHms 1 ⁴⁷	06	10699 17	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
CWHms 1 ⁴⁷	07	10699 18	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
CWHms 1 ⁴⁷	08	10699 19	Cw ¹	Ba ¹	900	500	400	3	20	2.0	Cw-2.0, Ba-1.0
CWHms 1 ⁴⁷	09		no conifers		-	-	-	-	-	-	
CWHms 1 ⁴⁷	10*	10699 20	Pl ¹	Cw ¹	400	200	200	3	20	1.0	Pl-1.25, Cw-1.0
CWHms 1 ⁴⁷	11	10699 21	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	10654 42	Bl ^{201,208} Sx	Pl	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFdc1	102	10654 34	Sx Pl Pa ^{13,201}	Bl ²⁰⁸	100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFdc1	103	10654 39	Sx Pl Pa ^{13,201}	Bl ²⁰⁸	120 0	700	600	7	20	2.0	Pl-1.6, Others- 0.8
ESSFdc1	104	10654 41	Pl Sx	Bl ²⁰⁸	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFdc1	110	10654 43	Bl ²⁰⁸ Sx		120 0	700	600	4	20	2.0	All-0.8
ESSFdc1	111	10654 44	Bl ^{32,208} Sx ³²		120 0	700	600	4	20	2.0	All-0.8
ESSFdc1	112	10654 46	Bl ^{1,32,208} Sx ^{1,32}		100 0	500	400	4	20	2.0	All-0.6
ESSFdc2	101	10654 52	Sx Bl ²⁰¹ 208	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFdc2	102	10654 47	Pl Pa ³¹	Fd ^{14 32} Bl ^{28 208} Sx ²⁸	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFdc2	103	10654 48	Pl Sx ²⁸ Fd ^{14 32}	Bl ²⁰⁸	100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFdc2	104	10654 49	Pl Sx Bl 201 208		100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFdc2	110	10654 53	Bl ^{201 208} Sx	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.6
ESSFdc2	111	10681 55	Bl ^{201 208} Sx	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.6
ESSFdc2	112	10654 54	Bl ^{1 208} Sx ^{1 32}		100 0	500	400	4	20	1.0	All-0.6
ESSFdc w	101	10654 65	Bl ²⁰⁸ Sx		120 0	700	600	4	20	2.0	All-0.8
ESSFdc w	102	10654 63	Bl ²⁰⁸ Sx Pa ²⁰¹	Pl ³⁴	100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFdc w	103	10654 64	Bl ²⁰⁸ Sx	Pa	120 0	700	600	7	20	2.0	All-0.8
ESSFdc w	110	10654 66	Bl ²⁰⁸ Sx		100 0	500	400	4	20	2.0	All-0.6
ESSFdh1	101	10654 70	Pl ^{34 201} Bl ^{201 208} Ba ^{201 202} Sx	Pw ³¹ Hw Cw ³² Fd ^{32 34} Lw ^{32 203}	120 0	700	600	4	20	2.0	Pl-2.0, Lw-2.0, Others-1.0
ESSFdh1	102	10654 67	Pl ³⁴ Fd ⁹ 14	Bl ²⁰⁸ Sx ¹³ Pw ^{31 34}	100 0	500	400	4	20	1.0	Pl-1.4, Others- 0.8
ESSFdh1	103	10654 68	Pl ³⁴ Sx ²⁸	Bl ^{28 208} Fd ^{9,32 34} Pw ³¹ Lw ^{9 32} 203	100 0	500	400	7	20	2.0	Pl-1.4, Others- 0.8
ESSFdh1	104	10654 69	Fd ^{14 32} Pl ³⁴ Bl ^{201 208} Sx	Pw ³¹ Ba ^{10 28} 202 Cw ¹⁰ 28 Hw ¹⁰	100 0	500	400	7	20	2.0	Pl-1.4, Others- 0.8

				²⁸ Lw ¹⁴ 32 203							
ESSFdh1	110	10656 71	Sx Bl ²⁰¹ 208 Ba ^{201 202}	Hw ³² Fd ³² Pl ³⁴ Cw ³² Lw ^{32 203}	120 0	700	600	4	20	2.0	Pl-2.0, Lw-2.0, Others-1.0
ESSFdh1	111	10656 72	Sx ¹ Bl ¹ 201 208 Pl ^{1 34 201}	Hw ^{1 32} Cw ^{1 32} Ba ^{1 32} 202	100 0	500	400	4	20	2.0	Pl-1.4, Others- 0.8
ESSFdh 2 (use classific ation for ESSFmw)	01	10657 21	Sx Bl ²⁰¹ 208 Ba ¹³ 201 202	Hw ^{14 32} Cw ^{14 32} Pw ³¹	120 0	700	600	4	20	2.0	All-1.0
ESSFdh 2 (use classific ation for ESSFmw)	02	10656 73	Pl ^{34 201} Fd ^{9 14}	Bl ^{28 208} Sx ¹³ Pw ³¹	100 0	500	400	4	20	1.0	Pl-1.4, Others- 0.8
ESSFdh 2 (use classific ation for ESSFmw)	03	10657 19	Pl ^{34 201} Fd ³²	Sx ²⁸ Bl ^{28 208} Pw ³¹ Lw ^{32 203}	100 0	500	400	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
ESSFdh 2 (use classific ation for ESSFmw)	04	10657 20	Fd ^{14 32} Pl ^{34 201} Bl ^{13 201} 208 Sx ¹³	Pw ³¹ Lw ^{14 32 203}	100 0	500	400	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
ESSFdh 2 (use classific ation for ESSFmw)	05	10688 9	Sx Bl ²⁰¹ 208 Ba ¹³ 201 202	Hw ^{14 32} Cw ^{14 32} Pw ³¹	120 0	700	600	4	20	2.0	All-1.0
ESSFdh 2 (use classific ation for ESSFmw)	06	10657 22	Bl ^{201 208} Sx	Ba ^{32 202} Cw ³² Hw ³²	120 0	700	600	4	20	2.0	All-1.0
ESSFdh 2 (use classific ation for ESSFmw)	07	10657 23	Bl ^{201 208} Sx Ba ³² 202 Cw ³²	Hw ³² Fd ³² Pw ¹⁷	120 0	700	600	4	20	2.0	All-1.0
ESSFdh 2 (use classific ation for ESSFmw)	08	10657 24	Sx ¹ Bl ¹ 201 208 Pl ^{1 34 201}	Hw ^{1 32} Cw ^{1 32}	100 0	500	400	4	20	1.0	All-0.8

ESSFmw)											
ESSFdv 1 (use classific ation for ESSFdv)	01	10657 56	Sx Bl ²⁰¹ 208	Pl Pa ³¹	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFdv 1 (use classific ation for ESSFdv)	02	10657 25	Pl Pa ³¹	Bl ^{28 208} Sx ²⁸	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFdv 1 (use classific ation for ESSFdv)	03	10657 26	Pl Fd ¹⁴ 32 Pa ³¹	Bl ^{28 208} Sx ²⁸ Lw 14 32 203	100 0	500	400	7	20	1.0	Pl-1.2, Others- 0.6
ESSFdv 1 (use classific ation for ESSFdv)	04	10657 27	Bl ^{201 208} Sx Pa ³¹	Pl Fd ¹⁴ 32 Lw ¹⁴ 32 203	100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFdv 1 (use classific ation for ESSFdv)	05	10657 57	Sx Bl ²⁰¹ 208	Pa ^{13 31}	120 0	700	600	4	20	2.0	All-0.8
ESSFdv 1 (use classific ation for ESSFdv)	06	10657 58	Sx ¹ Bl ¹ 201 208	Pl ¹	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFdv 2 (use classific ation for ESSFdv)	01	10657 62	Sx Bl ²⁰¹ 208 Pa ³¹	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFdv 2 (use classific ation for ESSFdv)	02	10657 59	Pl Pa ³¹	Se ²⁸ Bl ^{28 208}	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFdv 2 (use classific ation for ESSFdv)	03	10657 60	Pl Pa ³¹	Bl ²⁰⁸ Sx	100 0	500	400	7	20	1.0	Pl-1.2, Others- 0.6
ESSFdv 2 (use classific ation for ESSFdv)	04	10657 61	Pl ²⁰¹ Pa ³¹ Bl ^{201 208}	Sx	120 0	700	600	4	20	2.0	Pl-1.2, Others- 0.6
ESSFdv 2 (use classific ation for ESSFdv)	05	10657 63	Sx Bl ²⁰¹ 208	Pa ^{13 31} Pl	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8

ESSFdv 2 (use classific ation for ESSFdv)	06	10657 64	Sx ¹ Bl ¹ 201 208	Pl ¹	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFmw 1	102	10658 29	Pl Bl ¹³ 201 208 Sx ¹³ Pa 13 31 201	Fd ¹⁴	100 0	500	400	4	20	1.0	Pl-1.4, Others- 0.8
ESSFmw 1	103	10658 31	Pl ³⁴ 201 Sx Bl ²⁰¹ 208 Pa ¹³ 31 201	Ba ³² Fd ^{9,14,32} 34 Lw ⁹ 14 32 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
ESSFmw 1	104	10658 32	Pl Fd ¹⁴ Sx ²⁸	Bl ²⁸ 208 Ba ²⁸ 202 Pa ^{13,31} Lw ¹⁴ 203	100 0	500	400	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
ESSFmw 1	105	10658 33	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	120 0	700	600	4	20	2.0	Pl-2.0, Others- 1.0
ESSFmw 1	110	10658 36	Bl ²⁰¹ 208 Sx	Pl ³⁴	120 0	700	600	4	20	2.0	Pl-2.0, Others- 1.0
ESSFmw 1	111	10658 37	Bl ¹ 201 208 Sx ¹	Pl ^{1,34} Pw ¹³ 31	100 0	500	400	4	20	1.0	Pl-1.4, Others- 0.8
ESSFm w2 (use classific ation for ESSFmw)	01	10658 41	Sx Bl ²⁰¹ 208 Ba 201 202	Pl ³⁴ Hm Hw ¹⁴ 32 Pw ¹⁴ 31	120 0	700	600	4	20	2.0	Pl-2.0, Others- 1.0
ESSFm w2 (use classific ation for ESSFmw)	02	10658 38	Pl Bl ²⁰¹ 208 Pa ¹³ 31 201	Sx	100 0	500	400	4	20	1.0	Pl-1.4, Others- 0.8
ESSFm w2 (use classific ation for ESSFmw)	03	10658 39	Fd ^{14,32} 34 Pl ³⁴ 201 Sx Bl 201 208	Ba ³² 202 Lw ¹⁴ 32 203	100 0	500	400	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
ESSFm w2 (use classific ation for ESSFmw)	04	10658 40	Pl ³⁴ 201 Sx Bl ²⁰¹ 208 Pa ¹³ 31 201	Ba ³² 202	120 0	700	600	7	20	2.0	Pl-2.0, Others- 1.0
ESSFm w2 (use classific ation for ESSFmw)	05	10658 42	Sx Bl ²⁰¹ 208 Ba 201 202	Pl ³⁴ Hm Pw ³¹ Hw ¹⁴ 32 Cw ¹⁴ 32 Fd ⁹ 32	120 0	700	600	4	20	2.0	Pl-2.0, Others- 1.0

ESSFmw)											
ESSFmw2 (use classification for ESSFmw)	06	10658 43	Sx Bl ²⁰¹ ₂₀₈	Hm Hw ³² Ba _{32 202}	120 0	700	600	4	20	2.0	All-1.0
ESSFmw2 (use classification for ESSFmw)	07	10658 44	Sx Bl ²⁰¹ _{208 Ba 201 202}	Hm Hw ³² Cw ³²	120 0	700	600	4	20	2.0	All-0.8
ESSFmw2 (use classification for ESSFmw)	08	10658 45	Bl ^{1 201} _{208 Sx¹}	Pl ¹³⁴ Ba _{1 32} Pw ³¹	100 0	500	400	4	20	1.0	Pl-1.4, Others-0.8
ESSFxc1	101	10658 83	Pl Se Bl ^{201 208}		120 0	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	102	10658 79	Pl Pa ¹³	Bl ^{13 28} _{208 Se¹⁰ 13 28 Fd⁹ 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	10658 80	Pl	Bl ^{13 208} _{Se¹³ Fd⁹ 14 Pa¹³ 17 Lw⁹ 14 203}	100 0	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc1	104	10658 81	Pl	Bl ^{13 208} _{Se Fd⁹ 14 32 Lw 9 14 203}	100 0	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc1	105	10658 82	Pl Se	Bl ^{10 208}	120 0	700	600	7	20	2.0	Pl-1.2, Others-0.6
ESSFxc1	110	10658 84	Pl Se Bl ^{13 201} ₂₀₈		120 0	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	111	10658 85	Pl Se ³² Bl ^{32 201} ₂₀₈		120 0	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	112	10658 86	Pl ¹ Se ¹ 32 Bl ^{1 32} _{201 208}		100 0	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc1	113	10658 87	Pl ¹ Se ¹ ₃₂	Bl ^{1 32 208}	100 0	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc2	101	10658 90	Pl Se Bl _{201 208}		120 0	700	600	7	20	2.0	Pl-1.6, Others-0.8

ESSFxc2	102	10658 88	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	10658 89	Pl Se ¹⁰ 13 28 Bl ^{201 208}		100 0	500	400	7	20	2.0	Pl-1.2, Others- 0.6
ESSFxc2	110	10658 91	Se Bl ¹³ 201 208	Pl ²⁰⁰	120 0	700	600	7	20	2.0	Pl-1.6, Others- 0.8
ESSFxc2	111	10658 92	Se ³² Bl ^{201 208}	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFxc2	112	10658 93	Pl ¹ Se ¹ 32 Bl ^{1 201} 208		100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6
ESSFxc3 (use classific ation for ESSFxc)	01	10658 96	Pl Se ³² Bl ^{201 208}		120 0	700	600	7	20	2.0	Pl-1.6, Others- 0.8
ESSFxc3 (use classific ation for ESSFxc)	02	10658 94	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 classific ation for ESSFxc)	03		nonfore st	nonfore st						2.0	
ESSFxc3 (use classific ation for ESSFxc)	04		nonfore st	nonfore st						-	
ESSFxc3 (use classific ation for ESSFxc)	05	10658 95	Pl Pa ¹³ 201	Bl ^{13 208} Se ¹³ Fd ⁹ 14 Lw ⁹ 14 203	100 0	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc3 (use classific ation for ESSFxc)	06	10658 97	Pl Se Bl ^{201 208}	Pa ¹³	120 0	700	600	7	20	2.0	Pl-1.6, Others- 0.8
ESSFxc3 (use classific ation for ESSFxc)	07	10658 98	Se ³² Bl ^{201 208}	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.6, Others- 0.8
ESSFxc3 (use classific ation for ESSFxc)	08	10658 99	Se ^{1 32} Bl ^{1 201} 208	Pl ²⁰⁰	100 0	500	400	4	20	1.0	Pl-1.2, Others- 0.6

ESSFxc3 (use classification for ESSFxc)	09		nonfore st	nonfore st						-	
ESSFxc3 (use classification for ESSFxc)	10		nonfore st	nonfore st						-	
ESSFxcv1	01	10659 05	Pl Sx Bl ²⁰¹	Pa	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv1	02*	10659 00	Pl Pa	Bl	800	500	400	7	20	1.6	Pl-0.8,Others-0.6
ESSFxcv1	03*	10659 01	Pl Pa		800	500	400	7	20	2.0	Pl-0.8,Pa-0.6
ESSFxcv1	04	10659 02	Pl Pa	Bl Sx	100 0	600	500	7	20	2.0	Pl-0.8,Others-0.6
ESSFxcv1	05	10659 03	Pl Pa	Bl Sx	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv1	06	10659 04	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv1	07	10659 06	Pl Sx Bl ²⁰¹		120 0	700	600	4	20	2.0	Pl-1,Others-0.8
ESSFxcv1	08	10659 07	Pl Sx Bl ²⁰¹		600	400	300	4	20	1.6	Pl-0.8,Others-0.6
ESSFxcv1	09	10659 08	Sx Bl	Pl	800	500	400	4	20	1.6	Pl-0.8,Others-0.6
ESSFxcv2	01	10659 14	Pl Sx	Bl Pa	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv2	02*	10659 09	Pl Pa	Bl	800	500	400	7	20	1.6	Pl-0.8,Others-0.6
ESSFxcv2	03*	10659 10	Pl	Pa	600	400	300	7	20	2.0	Pl-0.8,Pa-0.6
ESSFxcv2	04	10659 11	Pl	Bl Pa	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv2	05	10659 12	Pl Sx	Pa Bl	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv2	06	10659 13	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxcv2	07	10659 15	Pl Sx	Bl	120 0	700	600	4	20	2.0	Pl-1,Others-0.8
ESSFxcv2	08	10659 16	Sx Bl	Pl	600	400	300	4	20	1.6	Pl-0.8,Others-0.6
ESSFxcv2	09	10659 17	Sx Bl ²⁰¹	Pl	600	400	300	4	20	1.6	Pl-0.8,Others-0.6
ESSFxcv2	10	10659 18	Sx Bl ²⁰¹	Pl	600	400	300	4	20	1.6	Pl-0.8,Others-0.6
IDFdc (use classification for IDFdk2 in LMH23)	01	10660 10	Fd	Pl ²⁰⁰ Py ^{14 203} Sx ^{10,13} Lw	100 0	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)	02	10660 06	Fd ²⁷ Py		600	400	400	4	20	1.0	Fd-0.8, Py-0.6

in LMH23)											
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		nonforested	nonforested						-	
IDFdc (use classification for IDFdk2 in LMH23)	08		nonforested	nonforested						-	

in LMH23)											
IDFdk1	101	10660 17	Fd Pl ²⁰¹	Py ^{9 14} Sx ^{10 13} Lw ²⁰³	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6, Sx-0.6
IDFdk1	102	10660 13	Fd ²⁷ Pl	Py ^{9 14}	600	400	400	4	20	1.0	Pl-1.0, Fd-0.8, Py-0.6
IDFdk1	103	10660 14	Fd ²⁷ Py ¹⁴	Pl ¹³	600	400	400	7	20	2.0	Pl-1.0, Fd-0.8, Py-0.6
IDFdk1	104	10660 15	Fd Pl ²⁰¹	Py ^{9 14} Sx ^{10 13} Lw ²⁰³	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Others- 0.6
IDFdk1	105	10660 16	Pl Fd ^{27,32}	Bl ^{10 208} Sx ¹⁰ Lw ^{27 32} 203	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Bl-0.6, Sx-0.6
IDFdk1	110	10660 18	Fd ³² Sx	Bl ^{10 13} 208 Pl Lw ^{32 203}	100 0	500	400	4	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Others- 0.6
IDFdk1	111	10660 19	Pl ^{1,12} Sx ¹	Bl ^{1 12 13} 208	100 0	500	400	4	20	1.0	Pl-1.0, Fd-0.8, Others-0.6
IDFdk2	101	10660 24	Fd Pl ²⁰¹	Py ^{9 14} Sx ^{10, 13,} 204 Lw ²⁰³	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6, Sx-0.6
IDFdk2	102	10660 20	Fd ²⁷ Py ^{9 14} Pl		600	400	400	4	20	1.0	Pl-1.0, Fd-0.8, Py-0.6
IDFdk2	103	10660 21	Py ¹⁴ Fd ²⁷		600	400	400	7	20	2.0	Pl-1.0, Fd-0.8, Py-0.6
IDFdk2	104	10660 22	Fd ²⁷ Py ¹⁴ Pl ²⁰¹	Lw ^{27 203}	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Py-0.6
IDFdk2	105	10660 23	Pl Fd ^{27,32}	Bl ^{10, 204,} 208 Sx ^{10,} 204 Lw ²⁰³	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Sx-0.6, Bl-0.6
IDFdk2	110	10660 25	Fd ³² Sx Pl ²⁰¹	Cw ³² Bl 208 Lw ³² 203	120 0	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Fd-1.0, Others- 0.8
IDFdk2	111	10660 26	Pl ^{1 12} Sx ¹ Fd ¹ 32	Bl ^{1 12 13} 208	100 0	500	400	4	20	1.0	Pl-1.0, Fd-0.8, Others-0.6
IDFdk3	01	10660 32	Fd Pl	Sx Py Lw	120 0	700	600	7	20	2.0	Pl, Lw-1.4, Fd- 1, Sx, Py-0.8
IDFdk3	02*	10660 27	Fd Pl	Py	800	500	400	7	20	2.0	Pl-1, Others-0.8
IDFdk3	03*	10660 28	Fd Pl	Py	800	500	400	7	20	2.0	Pl-1, Fd-0.8, Py- 0.8
IDFdk3	04	10660 29	Fd Pl	Py	100 0	500	400	7	20	2.0	Pl, Py-1, Fd-0.8

IDFdk3	05	10660 30	Fd Pl	Py	120 0	700	600	7	20	2.0	Pl-1.4,Fd-1,Py-0.8
IDFdk3	06	10660 31	Fd Pl	Py	120 0	700	600	7	20	2.0	Pl-1.4,Fd-1,Py -0.8
IDFdk3	07	10660 33	Fd Pl Sx		120 0	700	600	4	20	2.0	Pl-1.4,Fd-1,Sx-0.8
IDFdk3	08	10660 34	Fd Pl Sx		120 0	700	600	4	20	2.0	Pl-1.4,Fd-1,Sx-0.8
IDFdk3	09	10660 35	Sx	Pl	100 0	500	400	4	20	1.6	Pl-1,Sx-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	01	10660 60	Fd ²⁷ Py		100 0	500	400	7	20	2.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	02	10660 56	Py ²⁷ Fd ²⁷		400	200	200	7	20	1.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	03	10660 57	Py ²⁷ Fd ²⁷		400	200	200	7	20	2.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	04	10660 58	Py Fd ²⁷		600	400	400	7	20	2.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	05	10660 59	Fd ²⁷ Py		100 0	500	400	7	20	2.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	06	10660 61	Fd	Py	120 0	700	600	7	20	2.0	All-0.6
IDFxc (use classific ation for IDFxb2 in LMH23)	07	10660 62	Cw ¹⁴ Fd Sx ¹³		120 0	700	600	4	20	2.0	All-0.6

IDFxc (use classific ation for IDFxb2 in LMH23)	08	10660 63	Sx ¹ Fd ¹ Cw ^{1 32}		100 0	500	400	4	20	1.0	All-0.6
IDFxb1	101	10660 69	Fd ²⁷ Py		100 0	500	400	7	20	2.0	All-0.6
IDFxb1	102	10660 64	Py ²⁷ Fd ²⁷		400	200	200	7	20	1.0	All-0.6
IDFxb1	103	10660 65	Py Fd		400	200	200	7	20	1.0	All-0.6
IDFxb1	104	10660 66	Py Fd ²⁷		600	400	400	7	20	2.0	All-0.6
IDFxb1	105	10660 67	Py Fd ²⁷		600	400	400	7	20	2.0	All-0.6
IDFxb1	106	10660 68	Py Fd ²⁷		600	400	400	7	20	2.0	All-0.6
IDFxb1	110	10660 70	Fd ²⁷	Py ⁹	100 0	500	400	7	20	2.0	All-0.6
IDFxb1	111.1	10660 71	Fd ³² Sx ₁₃	Pl ¹²	120 0	700	600	4	20	2.0	Pl-1.0, Others- 0.8
IDFxb1	111.2	10660 72	Fd Cw _{14 32}	Pl ¹²	120 0	700	600	4	20	2.0	Pl-1.0, Others- 0.8
IDFxb1	112	10660 73	Sx ¹ Fd ^{1,32}	Pl ^{1 12 50} Cw ^{1 32 50}	120 0	700	600	4	20	1.0	Pl-1.0, Others- 0.8
IDFxb2	101	10660 77	Fd ²⁷ Py		100 0	500	400	7	20	2.0	All-0.6
IDFxb2	102	10660 74	Py ²⁷ Fd ²⁷		400	200	200	7	20	1.0	All-0.6
IDFxb2	103	10660 75	Py Fd ²⁷		400	200	200	7	20	2.0	All-0.6
IDFxb2	104	10660 76	Py Fd ²⁷		600	400	400	7	20	2.0	All-0.6
IDFxb2	110	10660 78	Fd	Py	120 0	700	600	7	20	2.0	All-0.6
IDFxb2	111	10660 79	Fd	Py	120 0	700	600	7	20	2.0	All-0.6
IDFxb2	112	10660 80	Fd Sx ¹³	Py Cw ¹⁴ 32 Pl ¹²	120 0	700	600	4	20	2.0	All-0.6
IDFxb2	113	10660 81	Sx ¹ Fd ¹ 32	Pl ^{1 12 50} Cw ^{1 32 50}	100 0	500	400	4	20	1.0	Pl-0.8, Others- 0.6
IDFxbw	01	10660 96	Fd Py		120 0	700	600	7	20	2.0	Fd, Py-0.8
IDFxbw	02*	10660 92	Fd Py		600	400	300	7	20	2.0	Fd, Py-0.6
IDFxbw	03*	10660 93	Fd Py		600	400	300	7	20	2.0	Fd, Py-0.6
IDFxbw	04	10660 94	Fd Py		800	500	400	7	20	2.0	Fd, Py-0.6
IDFxbw	05	10660 95	Fd		120 0	700	600	7	20	2.0	Fd-0.8
IDFxbw	06	10660 97	Fd Sx		120 0	700	600	4	20	2.0	Fd, Sx-0.6
IDFxbw	07	10660 98	Fd Sx		100 0	500	400	4	20	1.6	Fd, Sx-0.6

MSdc1 (use classification for MSdc)	01	10661 68	Pl ²⁰¹ Sx Bl ^{201 208} Fd ^{14 32}	Lw ^{14 32} 203 Pw ³¹ Pa ³¹	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdc1 (use classification for MSdc)	01 (cold air drainage)	10661 69	Sx Bl ²⁰¹ 208 Fd ¹⁴	Pl	120 0	700	600	7	20	1.0	Pl-1.4, Others- 0.8
MSdc1 (use classification for MSdc)	02 (high elevations)	10661 65	Pl Fd ¹⁴ Pa ^{13 31}	Py ^{9 14} 203	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSdc1 (use classification for MSdc)	02 (low elevations)	10661 66	Pl Fd	Lw ²⁰³ Py ^{9 14} 203	100 0	500	400	4	20	1.0	Pl-1.0, Lw-1.1, Others-0.6
MSdc1 (use classification for MSdc)	03	10661 67	Pl Fd ⁹ 32	Sx ²⁸ Bl ^{28 208} Pw ³¹ Lw ⁹ 32 Pa ³¹	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.1, Others-0.6
MSdc1 (use classification for MSdc)	04	10661 70	Sx Bl ²⁰¹ 208	Pl	120 0	700	600	7	20	2.0	Pl-1.4, Others- 0.8
MSdc1 (use classification for MSdc)	05		nonfore sted	nonfore sted						-	
MSdc3 (use classification for MSdc)	01	10661 73	Pl ²⁰¹ Sx Bl ^{201 208} Fd ^{14 32}	Lw ^{14 32} 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdc3 (use classification for MSdc)	01 (cold air drainage)	10661 74	Sx Bl ²⁰¹ 208 Pl ²⁰¹	Fd ^{14 32}	120 0	700	600	7	20	2.0	Pl-1.4, Others- 0.8
MSdc3 (use classification for MSdc)	02	10661 71	Pl ²⁰¹ Fd ¹⁴ Pa ^{13 31}	Py ^{14 32}	100 0	500	400	7	20	1.0	Pl-1.0, Others- 0.6
MSdc3 (use classification for MSdc)	03	10661 72	Pl Fd ⁹ 32	Sx ²⁸ Bl ^{28 208} Pa ^{13 31} Py ⁹ 14 Lw ⁹ 32 203	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdc3 (use classification for MSdc)	04	10661 75	Sx Bl ²⁰¹ 208 Pl ²⁰¹		120 0	700	600	4	20	2.0	Pl-1.4, Others- 0.8

MSdc3 (use classification for MSdc)	05		nonforested	nonforested						-	
MSdm2	101	1066198	Bl ^{201 208} Fd ^{9 14 32} Pl Sx	Lw ^{9 14 32 203}	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	102	1066176	Pl Fd ¹⁴	Py ^{14 203} Bl ^{13 204 208}	600	400	400	4	20	1.0	Pl-1.0, Others-0.6
MSdm2	103	1066195	Fd ³² Pl	Lw ^{32 203} Py ^{9 203} Bl ^{10 13 204 208} Sx ^{10,13 204}	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm2	104	1066196	Fd ^{9 14 32} Pl Sx ^{10 13 28}	Bl ^{10 13 28 208} Lw ^{14 32 203}	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	105	1066197	Pl Sx Bl ^{201 208}	Fd ^{9,14,32} Lw ^{9 14 32 203}	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	110	1066199	Pl Sx Bl ^{201 208}	Lw ^{9 14 32 203} Fd ^{9 14 32}	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	111	1066200	Pl Sx Bl ^{201 208}	Fd ^{14 32} Lw ^{14 32 203}	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	112	1066201	Sx Bl ^{201 208}	Pl Fd ^{9 14 32} Lw ^{9 14 32 203}	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	113	1066202	Pl ¹ Sx ¹	Bl ^{1 208}	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSdm3 (use classification for MSdm2 in LMH23)	01	1066206	Pl Sx Fd ^{14 32} Bl ^{201 208}	Lw ^{14 32 203}	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classification for MSdm2 in LMH23)	02		nonforested	nonforested						-	
MSdm3 (use classification for MSdm2 in LMH23)	03 (shallow soils)	1066203	Pl Fd ¹⁴	Py ^{14 203}	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6

MSdm3 (use classific ation for MSdm2 in LMH23)	03 (deep soils)	10662 04	Fd ¹⁴ Pl	Bl ^{10 13} 204 208 Sx ^{10 13} 204 Lw 32 203 Py 14 203	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm3 (use classific ation for MSdm2 in LMH23)	04	10662 05	Fd ^{14 32} Pl Sx ¹³	Bl ^{13 208} Lw ^{14,32} 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classific ation for MSdm2 in LMH23)	05	10662 07	Pl Sx Bl 201 208	Fd ^{14 32} Lw ^{14 32} 203	120 0	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classific ation for MSdm2 in LMH23)	06	10662 08	Sx Bl ²⁰¹ 208	Pl ²⁰⁰ Fd ^{14 32} Lw ^{14 32} 203 Cw 32	120 0	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classific ation for MSdm2 in LMH23)	07	10662 09	Sx1 Bl ¹ 201 208	Pl ^{1 200}	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk1	101	10662 15	Pl Fd ^{9 14} 32 Sx ¹⁰ 13	Bl ^{10,13} 208 Lw ⁹ 14 32 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	102	10662 10	Pl Fd ^{9 14} 32	Py ^{14 203} Lw ^{9 14} 32 203	100 0	500	400	4	20	1.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk1	103	10662 11	Pl Fd ^{9 14} 32		100 0	500	400	4	20	2.0	Pl-1.0, Others- 0.6
MSxk1	104	10662 13	Pl	Sx ¹³ Fd ^{14 32} Bl ^{13 208} Lw ^{14 32} 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	105	10662 14	Pl Sx ¹⁰ 13	Bl ^{10,13} 208 Fd ⁹ 14 32 Lw ⁹ 14 32 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	110	10662 16	Pl Sx	Bl ^{10 13} 208 Lw ⁹ 14 32 203	120 0	700	600	4	20	2.0	Pl-1.4, Others- 0.8
MSxk1	111	10662 17	Pl, Sx	Bl ²⁰⁸	120 0	700	600	4	20	2.0	Pl-1.4, Others- 0.8

MSxk1	112	10662 18	Pl ¹ Sx ¹	Bl ^{1,208}	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk1	113	10662 19	Pl ¹ Sx ¹	Bl ^{1,208}	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk2	101	10662 72	Pl Fd ^{9 14} 32 Sx ¹⁰ 13	Bl ^{10 13} 208 Lw ⁹ 14 32 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk2	102	10662 20	Pl Fd ^{9 14} 32	Bl ^{13 28} 204 208	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk2	103	10662 45	Pl Fd ^{9 14} 32	Sx ^{10 13 28}	100 0	500	400	4	20	2.0	Pl-1.0, Others- 0.6
MSxk2	104	10662 46	Pl ²⁰¹ Fd ³²	Py ^{14 203} Lw ^{9 14} 32 203	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk2	105	10662 47	Pl	Sx ¹⁰ 13 Fd ^{9 14} 32 Lw ^{9 14} 32 203	120 0	700	600	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk2	106	10662 71	Pl Sx ¹⁰ 13	Bl ^{10 13} 208 Fd ⁹ 14 32 Lw ⁹ 14 32 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk2	110	10662 73	Pl Sx	Bl ^{10 13} 208 Lw ⁹ 14 32 203	120 0	700	600	4	20	2.0	Pl-1.4, Others- 0.8
MSxk2	111	10662 74	Pl Sx	Bl ²⁰⁸	120 0	700	600	4	20	2.0	Pl-1.4, Others- 0.8
MSxk2	112	10662 75	Sx ¹	Bl ^{1 208} Pl ^{1 200}	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk3 (use classific ation for MSxk)	01	10662 79	Pl Fd ^{9 14} 32 Sx ¹⁰ 13 28 204	Bl ^{10 13} 204 208 Lw ^{9 14 32} 203	120 0	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk3 (use classific ation for MSxk)	02	10662 76	Pl Fd ^{9 14}	Bl ^{10 13} 204 208	100 0	500	400	4	20	1.0	Pl-1.0, Others- 0.6
MSxk3 (use classific ation for MSxk)	03		nonfore sted							2.0	
MSxk3 (use classific ation for MSxk)	04		nonfore sted							2.0	

MSxk3 (use classification for MSxk)	05 (steep warm slopes)	10662 77	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}	100 0	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)	10662 78	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}	100 0	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk3 (use classification for MSxk)	06	10662 80	Pl Sx Bl ²⁰¹ ₂₀₈	Fd ^{14 32}	120 0	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	10662 81	Sx Bl ²⁰¹ ₂₀₈	Pl ²⁰⁰	120 0	700	600	4	20	2.0	Pl-1.4, Others-0.8
MSxk3 (use classification for MSxk)	09	10662 82	Sx ¹	Bl ^{1 208} Pl ^{1 200}	100 0	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSxv	01	10661 02	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1, Others-0.8
MSxv	02	10660 99	Pl		100 0	500	400	7	20	2.0	Pl-0.8
MSxv	03	10661 00	Pl		100 0	500	400	7	20	2.0	Pl-0.8
MSxv	04	10661 01	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1, Others-0.8
MSxv	05	10661 03	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1, Others-0.8
MSxv	06	10661 04	Pl Sx	Bl	120 0	700	600	7	20	2.0	Pl-1, Others-0.8
MSxv	07	10661 05	Pl Sx	Bl	100 0	500	400	4	20	2.0	Pl-0.8, Others-0.6
MSxv	08	10661 06	Sx	Pl Bl	100 0	500	400	4	20	1.6	Pl-0.8, Others-0.6
MSxv	09	10661 07	Sx	Pl Bl	400	200	200	4	20	1.6	Pl-0.8, Others-0.6
PPxh2	101	10661 17	Py Fd ²⁷		400	200	200	7	20	2.0	All-0.6
PPxh2	102	10661 14	Py ²⁷ Fd ²⁷		400	200	200	7	20	1.0	All-0.6
PPxh2	103	10661 15	Py ²⁷ Fd ²⁷		400	200	200	7	20	2.0	All-0.6

PPxh2	110.1	10661 18	Fd	Py	600	400	400	7	20	2.0	All-0.6
PPxh2	110.2	10663 08	Fd	Py	600	400	400	7	20	2.0	All-0.6
PPxh2	111	10661 19	Fd	Py	600	400	400	4	20	2.0	All-0.6

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

BGC Classification		Regeneration and Free Growing Stocking Standard								
Zone/ SZ	Forest Stew Site Series	Stocking Standards ID	Preferred (p) Species	Acceptable (a) Species	Layer**	Target	MI N pa (well-spaced/ha)	MI N p	MI TD	Minimum Height at Free Growing Species Height (m)
IDFdc (use classification for IDFdk 2 in LMH2 3)	1	1065 183	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 IDFdk 2 in LMH2 3)	2	1065 179	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 IDFdk 2 in LMH2 3)	03 (very steep slopes with bluebunch wheat grass)	1065 180	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 IDFdk 2 in LMH2 3)	03 (shallow soils)	1065 181	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 IDFdk 2 in LMH2 3)	03 (very steep slopes with	1065 182	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	

2 in LMH2 3)	pinegrass)		Fd ²⁷ Py ¹⁴	Pl ²⁰⁰	4	1000	500	400	2.0	
IDFdc (use classification for IDFdk 2 in LMH2 3)	5	1065 185	Fd Sx Pl Cw Bl Lw		1	600	300	250	0.0	Pl Lw(1.4),Fd(0.4),Others(0.8)
			Fd Sx Pl Cw Bl Lw		2	800	400	300	2.0	
			Fd ³² Sx	Pl ^{12 200} Cw ³² Bl ²⁰⁸ Lw	3	1000	500	400	2.0	
			Fd ³² Sx	Pl ^{12 200} Cw ³² Bl ²⁰⁸ Lw	4	1200	700	600	2.0	
IDFdc (use classification for IDFdk 2 in LMH2 3)	6	1065 186	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	
IDFdk 1	101	1065 191	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	
IDFdk 1	102	1065 187	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	
IDFdk 1	103	1065 188	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	
IDFdk 1	104	1065 189	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	30 0	2.0	
			Fd Pl ²⁰¹	Py ^{9,14} Sx ^{10 13} Lw ²⁰³	4	100 0	500	40 0	2.0	
IDFdk 1	105	1065 190	Pl Fd Bl Sx Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Fd(0.4),Sx(0.6)
			Pl Fd Bl Sx Lw		2	600	300	25 0	2.0	
			Pl Fd ^{27,32}	Bl ^{10, 208} Sx ¹⁰ Lw ^{27 32 203}	3	800	400	30 0	2.0	
			Pl Fd ^{27,32}	Bl ^{10, 208} Sx ¹⁰ Lw ^{27 32 203}	4	100 0	500	40 0	2.0	
IDFdk 1	111	1065 192	Fd Sx Bl Pl Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Fd(0.4),Ot hers(0.6)
			Fd Sx Bl Pl Lw		2	600	300	25 0	2.0	
			Fd ³² Sx	Bl ^{10,13,208} Pl Lw 32 203	3	800	400	30 0	2.0	
			Fd ³² Sx	Bl ^{10,13,208} Pl Lw 32 203	4	100 0	500	40 0	2.0	
IDFdk 1	112	1065 193	Pl Sx Bl		1	400	200	20 0	0.0	Pl (1.0),Fd(0.4),Other s(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Pl ^{1,12} Sx ¹	Bl ^{1,12,13, 208}	3	800	400	30 0	1.0	
			Pl ^{1,12} Sx ¹	Bl ^{1,12,13, 208}	4	100 0	500	40 0	1.0	
IDFdk 2	101	1065 239	Fd Pl Py Sx Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Fd(0.4),Ot hers(0.6)
			Fd Pl Py Sx Lw		2	600	300	25 0	2.0	
			Fd Pl ²⁰¹	Py ^{9,14} Sx ^{10,13} Lw ²⁰³	3	800	400	30 0	2.0	
			Fd Pl ²⁰¹	Py ^{9,14} Sx ^{10,13,204} Lw ²⁰³	4	100 0	500	40 0	2.0	
IDFdk 2	102	1065 194	Fd Py Pl		1	300	150	15 0	0.0	Pl(1.0), Fd(0.4), Py(0.6)
			Fd Py Pl		2	400	200	20 0	1.0	
			Fd ²⁷ Py ^{9,14} Pl		3	500	300	30 0	1.0	
			Fd ²⁷ Py ^{9,14} Pl		4	600	400	40 0	1.0	
IDFdk 2	103	1065 195	Py Fd Pl		1	300	150	15 0	0.0	Pl(1.0), Fd(0.4), Py(0.6)
			Py Fd Pl		2	400	200	20 0	1.0	

			Py ^{14,27} Fd ²⁷	Pl ^{13 28}	3	500	300	30 0	1.0	
			Py ^{14,27} Fd ²⁷	Pl ^{13 28}	4	600	400	40 0	1.0	
IDFdk 2	104	1065 196	Fd Pl Py Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Fd(0.4),Py(0.6)
			Fd Pl Py Lw		2	600	300	25 0	2.0	
			Fd ²⁷ Pl ²⁰¹	Py ¹⁴ Lw ^{27 203}	3	800	400	30 0	2.0	
			Fd ²⁷ Pl ²⁰¹	Py ¹⁴ Lw ^{27 203}	4	100 0	500	40 0	2.0	
IDFdk 2	105	1065 197	Pl Fd Bl Sx Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Fd(0.4),Ot hers(0.6)
			Pl Fd Bl Sx Lw		2	600	300	25 0	2.0	
			Pl Fd ^{27,32}	Bl ^{10, 208} Sx ¹⁰ Lw	3	800	400	30 0	2.0	
			Pl Fd ^{27,32}	Bl ^{10, 204,208} Sx ^{10,204} Lw ²⁰³	4	100 0	500	40 0	2.0	
IDFdk 2	110	1065 240	Fd Sx Pl Cw Bl Lw		1	600	300	25 0	0.0	Pl Lw(1.4),Fd(0.4),Ot hers(0.8)
			Fd Sx Pl Cw Bl Lw		2	800	400	30 0	2.0	
			Fd ³² Sx Pl ²⁰¹	Cw ³² Bl ²⁰⁸ Lw ^{32 203}	3	100 0	500	40 0	2.0	
			Fd ³² Sx Pl ²⁰¹	Cw ³² Bl ²⁰⁸ Lw ^{32 203}	4	120 0	700	60 0	2.0	
IDFdk 2	111	1065 241	Pl Sx Fd Bl		1	400	200	20 0	0.0	Pl(1.0),Fd(0.4),Oth ers(0.6)
			Pl Sx Fd Bl		2	600	300	25 0	1.0	
			Pl ^{1,12} Sx ¹ Fd ^{1,32}	Bl ^{1,12,13,208} Cw 32	3	800	400	30 0	1.0	
			Pl ^{1,12} Sx ¹ Fd ^{1,32}	Bl ^{1,12,13,208}	4	100 0	500	40 0	1.0	
IDFdk 3	01	1065 247	Fd Pl Sx		1	600	300	25 0	0.0	Pl(1.4),Fd(0.4),Sx(0 .8)
			Fd Pl Sx		2	800	400	30 0	2.0	
			Fd ^{27,32} Pl	Sx ^{13,28}	3	100 0	500	40 0	2.0	
			Fd ^{27,32} Pl	Sx ^{13,28}	4	120 0	700	60 0	2.0	
IDFdk 3	02	1065 242	Fd Pl		1	300	150	15 0	0.0	Pl(1.0), Fd(0.4)
			Fd Pl		2	400	200	20 0	1.0	

			Fd ²⁷ Pl		3	600	300	30 0	1.0	
			Fd ²⁷ Pl		4	800	400	40 0	1.0	
IDFdk 3	03	1065 243	Fd Pl		1	300	150	15 0	0.0	Pl(1.0), Fd(0.4)
			Fd Pl		2	400	200	20 0	1.0	
			Fd ²⁷ Pl		3	600	300	30 0	1.0	
			Fd ²⁷ Pl		4	800	400	40 0	1.0	
IDFdk 3	04	1065 244	Fd Pl		1	400	200	20 0	0.0	Pl(1.4), Fd(0.4)
			Fd Pl		2	600	300	25 0	2.0	
			Fd ²⁷ Pl		3	800	400	30 0	2.0	
			Fd ²⁷ Pl		4	100 0	500	40 0	2.0	
IDFdk 3	05	1065 245	Fd Pl		1	600	300	25 0	0.0	Pl(1.4), Fd(0.4)
			Fd Pl		2	800	400	30 0	2.0	
			Fd ²⁷ Pl		3	100 0	500	40 0	2.0	
			Fd ²⁷ Pl		4	120 0	700	60 0	2.0	
IDFdk 3	06	1065 246	Fd Pl		1	600	300	25 0	0.0	Pl(1.4), Fd(0.4)
			Fd Pl		2	800	400	30 0	2.0	
			Fd ²⁷ Pl		3	100 0	500	40 0	2.0	
			Fd ²⁷ Pl		4	120 0	700	60 0	2.0	
IDFdk 3	07	1065 248	Fd Pl Sx		1	600	300	25 0	0.0	Pl(1.0), Fd(0.4), Sx(0.6)
			Fd Pl Sx		2	800	400	30 0	2.0	
			Fd ³² Pl Sx		3	100 0	500	40 0	2.0	
			Fd ³² Pl Sx		4	120 0	700	60 0	2.0	
IDFdk 3	08	1065 249	Fd Pl Sx		1	600	300	25 0	0.0	Pl(1.0), Fd(0.4), Sx(0.6)
			Fd Pl Sx		2	800	400	30 0	2.0	
			Fd ³² Pl Sx		3	100 0	500	40 0	2.0	
			Fd ³² Pl Sx		4	120 0	700	60 0	2.0	
IDFdk 3	09	1065 250	Sx Pl		1	400	200	20 0	0.0	Pl(1.0), Sx(0.6)
			Sx Pl		2	600	300	25 0	1.0	
			Sx ^{1,32}	Pl ¹	3	800	400	30 0	1.0	

			Sx ^{1,32}	Pl ¹	4	100 0	500	40 0	1.0	
IDFdm 1	101	1065 254	Fd Lw Pl ²⁰⁰ Py ^{9,14}		1	400	200	20 0	0.0	Pl Lw(1.0), Fd(0.8), Py(0.6)
			Fd Lw Pl ²⁰⁰ Py ^{9,14}		2	600	300	25 0	2.0	
			Fd Lw	Pl ²⁰⁰ Py ^{9,14}	3	800	400	30 0	2.0	
			Fd Lw	Pl ²⁰⁰ Py ^{9,14}	4	100 0	500	40 0	2.0	
IDFdm 1	102	1065 251	Fd ²⁷ Py Lw		1	300	150	15 0	0.0	Lw (1.0), Fd(0.8), Py (0.6)
			Fd ²⁷ Py Lw		2	400	200	20 0	1.0	
			Fd ²⁷ Py	Lw	3	500	300	30 0	1.0	
			Fd ²⁷ Py	Lw	4	600	400	40 0	1.0	
IDFdm 1	103	1065 252	Fd ²⁷ Py		1	300	150	15 0	0.0	Fd(0.8), Py (0.6)
			Fd ²⁷ Py		2	400	200	20 0	2.0	
			Fd ²⁷ Py		3	500	300	30 0	2.0	
			Fd ²⁷ Py		4	600	400	40 0	2.0	
IDFdm 1	104	1065 253	Fd Lw Py ²⁰³ Pl ^{10,13,28,2} 04		1	400	200	20 0	0.0	Pl Lw(1.0), Fd(0.8), Py (0.6)
			Fd Lw Py ²⁰³ Pl ^{10,13,28,2} 04		2	600	300	25 0	2.0	
			Fd Lw Py ²⁰³	Pl ^{10,13,28,204}	3	800	400	30 0	2.0	
			Fd Lw Py ²⁰³	Pl ^{10,13,28,204}	4	100 0	500	40 0	2.0	
IDFdm 1	110.1	1065 255	Fd ³² Sx Lw ³² Pl		1	600	300	25 0	0.0	Pl Lw(1.4), Fd(1.0), Sx(0.8)
			Fd ³² Sx Lw ³² Pl		2	800	400	30 0	2.0	
			Fd ³² Sx Lw ³²	Pl	3	100 0	500	40 0	2.0	
			Fd ³² Sx Lw ³²	Pl	4	120 0	700	60 0	2.0	
IDFdm 1	110.2	1065 256	Fd ³² Lw ³² Cw ³² Sx ^{10,13,201}		1	600	300	25 0	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	30 0	2.0	

			Fd ³² Lw ³² Cw ³² Sx ^{10,13,201}		3	100 0	500	40 0	2.0	
			Fd ³² Lw ³² Cw ³² Sx ^{10,13,201}		4	120 0	700	60 0	2.0	
IDFdm 1	111	1065 257	Fd ³² Lw ³² Sx Pl		1	400	200	20 0	0.0	Pl Lw Fd (1.0), Sx (0.8)
			Fd ³² Lw ³² Sx Pl		2	600	300	25 0	2.0	
			Fd ³² Lw ³² Sx	Pl	3	800	400	30 0	2.0	
			Fd ³² Lw ³² Sx	Pl	4	100 0	500	40 0	2.0	
IDFdm 1	112	1065 258	Sx ¹ Cw ^{1,32} Pl ¹		1	400	200	20 0	0.0	Sx Cw (0.6), Pl 1.0
			Sx ¹ Cw ^{1,32} Pl ¹		2	600	300	25 0	1.0	
			Sx ¹	Cw ^{1,32} Pl ¹	3	800	400	30 0	1.0	
			Sx ¹	Cw ^{1,32} Pl ¹	4	100 0	500	40 0	1.0	
IDFm w2	1	1065 270	Fd Cw Pl Lw Pw Sx		1	600	300	25 0	0.0	Pl Lw(1.6),Fd(1.0),Ot hers(0.8)
			Fd Cw Pl Lw Pw Sx		2	800	400	30 0	2.0	
			Fd ⁵⁸ Cw ²⁸ Pw ³¹	Pl ²⁰⁰ Lw ²⁰³ Sx ^{10 28}	3	100 0	500	40 0	2.0	
			Fd ⁵⁸ Cw ²⁸ Pw ³¹	Pl ²⁰⁰ Lw ²⁰³ Sx ^{10 28}	4	120 0	700	60 0	2.0	
IDFm w2	2	1065 268	Fd Pl Py Pw		1	300	150	15 0	0.0	Pl Pw(1.2),Fd(0.8),Py(0.6)
			Fd Pl Py Pw		2	400	200	20 0	1.0	
			Fd Pl	Py ²⁰³ Pw ³¹	3	500	300	30 0	1.0	
			Fd Pl	Py ²⁰³ Pw ³¹	4	600	400	40 0	1.0	
IDFm w2	3	1065 269	Fd Lw Pw Py Pl		1	400	200	20 0	0.0	Pl Lw(1.6),Fd(1.0),Ot hers(0.8)
			Fd Lw Pw Py Pl		2	600	300	25 0	2.0	
			Fd	Lw ²⁰³ Pw ³¹ Py ²⁰³ Pl ²⁰⁰	3	800	400	30 0	2.0	

			Fd	Lw ²⁰³ Pw ³¹ Py ²⁰⁰ 203 Pl ²⁰⁰	4	100 0	500	40 0	2.0	
IDFm w2	04 subhy gric, no devil's club	1065 271	Fd Cw Sx Pw Lw Bl Pl		1	600	300	25 0	0.0	Pl Lw(1.6),Fd(1.0),Ot hers(0.8)
			Fd Cw Sx Pw Lw Bl Pl		2	800	400	30 0	2.0	
			Fd ⁵⁸ Cw Sx	Pw ³¹ Lw ²⁰³ Bl ²⁰⁸ 208Pl	3	100 0	500	40 0	2.0	
			Fd ⁵⁸ Cw Sx ^{10,13}	Pw ³¹ Lw ²⁰³ Bl ²⁰⁸ 208Pl	4	120 0	700	60 0	2.0	
IDFm w2	04 moist sites with devil's club	1065 272	Cw Fd Sx Hw Pw Lw Bl		1	600	300	25 0	0.0	Pl Lw(1.6),Fd(1.0),Ot hers(0.8)
			Cw Fd Sx Hw Pw Lw Bl		2	800	400	30 0	2.0	
			Cw Fd ⁵⁸ Sx	Hw Pw ³¹ Lw ³² 203 Bl ²⁰⁸	3	100 0	500	40 0	2.0	
			Cw Fd ⁵⁸ Sx	Hw Pw ³¹ Lw ³² 203 Bl ²⁰⁸	4	120 0	700	60 0	2.0	
IDFm w2	5	1065 273	Cw Hw Sx Bl		1	400	200	20 0	0.0	All(0.6)
			Cw Hw Sx Bl		2	600	300	25 0	1.0	
			Cw ^{1,32} Hw ^{1,32} Sx ¹	Bl ¹ 208	3	800	400	30 0	1.0	
			Cw ^{1,32} Hw ^{1,32} Sx ¹	Bl ¹ 208	4	100 0	500	40 0	1.0	
IDFw w	1	1065 277	Fd Py Pw Lw Pl Sx Cw		1	300	150	15 0	0.0	Sx(3.0),Pl(2.0),Othe rs(1.5)
			Fd Py Pw Lw Pl Sx Cw		2	400	200	20 0	2.0	
			Fd Py	Pw ²⁸ 31 Lw ²⁰³ Pl ²⁰⁰ Sx ²⁸ Cw ²⁸	3	500	300	30 0	2.0	
			Fd Py	Pw ²⁸ 31 Lw ²⁰³ Pl ²⁰⁰ Sx ²⁸ Cw ²⁸	4	600	400	40 0	2.0	
IDFw w	2	1065 274	Fd Py		1	600	300	25 0	0.0	Fd(1.0),Py(0.8)

			Fd Py		2	800	400	30 0	1.0	
			Fd Py		3	100 0	500	40 0	1.0	
			Fd Py		4	120 0	700	60 0	1.0	
IDFw w	3	1065 275	Fd Py Lw		1	600	300	25 0	0.0	Lw(1.6),Fd(1.0),Py(0.8)
			Fd Py Lw		2	800	400	30 0	2.0	
			Fd Py	Lw ²⁰³	3	100 0	500	40 0	2.0	
			Fd Py ^{9,14}	Lw ²⁰³	4	120 0	700	60 0	2.0	
IDFw w	4	1065 276	Fd Py Pl Sx Cw Lw		1	300	150	15 0	0.0	Pl Lw(1.6),Fd(1.0),Ot hers(0.8)
			Fd Py Pl Sx Cw Lw		2	400	200	20 0	2.0	
			Fd Py ^{9 14}	Pl Sx ^{10 28} Cw ^{10 28} Lw ²⁰³	3	500	300	30 0	2.0	
			Fd Py ^{9 14}	Pl ²⁰⁰ Sx ^{10 28} Cw ^{10 28} Lw ²⁰³	4	600	400	40 0	2.0	
IDFw w	5	1065 278	Fd Cw Pw Lw Bg		1	600	300	25 0	0.0	Lw(1.6),Fd(1.0),Ot hers(0.8)
			Fd Cw Pw Lw Bg		2	800	400	30 0	2.0	
			Cw Fd	Pw ³¹ Lw ²⁰³ Bg	3	100 0	500	40 0	2.0	
			Cw Fd	Pw ³¹ Lw ²⁰³ Bg	4	120 0	700	60 0	2.0	
IDFw w	6	1065 279	Sx Fd Bg Lw		1	600	300	25 0	0.0	Lw(1.6),Fd(1.0),Ot hers(0.8)
			Sx Fd Bg Lw		2	800	400	30 0	2.0	
			Sx Fd	Bg Lw ^{1 203}	3	100 0	500	40 0	2.0	
			Sx Fd	Bg Lw ^{1 203}	4	120 0	700	60 0	2.0	
IDFw w	7 abund ant devil's club	1065 280	Sx Bl Cw		1	600	300	25 0	0.0	All(0.6)
			Sx Bl Cw		2	800	400	30 0	2.0	
			Cw Sx ¹³	Bg Fd ^{1 32} Lw ^{1 32 203}	3	100 0	500	40 0	2.0	
			Cw Sx ¹³	Bg Fd ^{1 32} Lw ^{1 32 203}	4	120 0	700	60 0	2.0	
IDFw w	7 abund ant horset ail	1065 281	Cw Sx Bl		1	200	100	10 0	0.0	All(0.6)
			Cw Sx Bl		2	300	125	12 5	1.0	
			Cw ¹ Sx ^{1 13}	Bl ^{1 13 208}	3	300	150	15 0	1.0	

			Cw ¹ Sx ^{1 13}	Bl ^{1 13 208}	4	400	200	20 0	1.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	1	1065 284	Fd Py		1	400	200	20 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	600	300	25 0	2.0	
			Fd ²⁷ Py		3	800	400	30 0	2.0	
			Fd ²⁷ Py		4	100 0	500	40 0	2.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	2	1065 282	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	1.0	
			Py ²⁷ Fd ²⁷		3	300	150	15 0	1.0	
			Py ²⁷ Fd ²⁷		4	400	200	20 0	1.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	3	1065 283	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	2.0	
			Py ²⁷ Fd ²⁷		3	300	150	15 0	2.0	
			Py ²⁷ Fd ²⁷		4	400	200	20 0	2.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	6	1065 285	Fd Py		1	600	300	25 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	800	400	30 0	2.0	
			Fd	Py	3	100 0	500	40 0	2.0	
			Fd	Py	4	120 0	700	60 0	2.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	7	1065 286	Fd Sx Cw		1	600	300	25 0	0.0	Fd(0.4),Others(0.6)
			Fd Sx Cw		2	800	400	30 0	2.0	
			Cw ¹⁴ Fd Sx ¹³		3	100 0	500	40 0	2.0	
			Cw ¹⁴ Fd Sx ¹³		4	120 0	700	60 0	2.0	
IDFxc (use classification for IDFxh 2 in LMH2 3)	8	1065 287	Sx Fd Cw		1	400	200	20 0	0.0	Fd(0.4) Pl(0.8),Others(0.6)
			Sx Fd Cw		2	600	300	25 0	1.0	
			Sx ¹ Fd ¹ Cw ^{1 32}		3	800	400	30 0	1.0	
			Sx ¹ Fd ¹ Cw ^{1 32}		4	100 0	500	40 0	1.0	
IDFxc 1	101	1065 293	Fd Py		1	400	200	20 0	0.0	Fd(0.4),Others(0.6)

			Fd Py		2	600	300	25 0	2.0	
			Fd ²⁷ Py		3	800	400	30 0	2.0	
			Fd ²⁷ Py		4	100 0	500	40 0	2.0	
IDF _{xh} 1	102	1065 288	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	1.0	
			Py ²⁷ Fd ²⁷		3	300	150	15 0	1.0	
			Py ²⁷ Fd ²⁷		4	400	200	20 0	1.0	
IDF _{xh} 1	103	1065 289	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	1.0	
			Py Fd		3	300	150	15 0	1.0	
			Py Fd		4	400	200	20 0	1.0	
IDF _{xh} 1	104	1065 290	Py Fd		1	300	150	15 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	400	200	20 0	2.0	
			Py Fd ²⁷		3	500	300	30 0	2.0	
			Py Fd ²⁷		4	600	400	40 0	2.0	
IDF _{xh} 1	105	1065 291	Py Fd		1	300	150	15 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	400	200	20 0	2.0	
			Py Fd ²⁷		3	500	300	30 0	2.0	
			Py Fd ²⁷		4	600	400	40 0	2.0	
IDF _{xh} 1	106	1065 292	Py Fd		1	300	150	15 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	400	200	20 0	2.0	
			Py Fd ²⁷		3	500	300	30 0	2.0	
			Py Fd ²⁷		4	600	400	40 0	2.0	
IDF _{xh} 1	110	1065 294	Fd Py		1	400	200	20 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	600	300	25 0	2.0	
			Fd ²⁷	Py ⁹	3	800	400	30 0	2.0	
			Fd ²⁷	Py ⁹	4	100 0	500	40 0	2.0	
IDF _{xh} 1	111.1	1065 295	Fd Sx Pl		1	600	300	25 0	0.0	Fd(0.4) Pl(1.0),Others(0.8)
			Fd Sx Pl		2	800	400	30 0	2.0	

			Fd ³² Sx ¹³	Pl ¹²	3	100 0	500	40 0	2.0	
			Fd ³² Sx ¹³	Pl ¹²	4	120 0	700	60 0	2.0	
IDF _{xh} 1	111.2	1065 296	Fd Cw Pl		1	600	300	25 0	0.0	Fd(0.4) Pl(1.0),Others(0.8)
			Fd Cw Pl		2	800	400	30 0	2.0	
			Fd Cw ^{14 32}	Pl ¹²	3	100 0	500	40 0	2.0	
			Fd Cw ^{14 32}	Pl ¹²	4	120 0	700	60 0	2.0	
IDF _{xh} 1	112	1065 297	Sx Fd Pl Cw		1	600	300	25 0	0.0	Fd(0.4) Pl(1.0),Others(0.8)
			Sx Fd Pl Cw		2	800	400	30 0	1.0	
			Sx ¹ Fd ^{1,32}	Pl ^{1,12, 50} Cw ^{1,32, 50}	3	100 0	500	40 0	1.0	
			Sx ¹ Fd ^{1,32}	Pl ^{1,12, 50} Cw ^{1,32, 50}	4	120 0	700	60 0	1.0	
IDF _{xh} 2	101	1065 301	Fd Py		1	400	200	20 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	600	300	30 0	2.0	
			Fd ²⁷ Py		3	800	400	40 0	2.0	
			Fd ²⁷ Py		4	100 0	500	50 0	2.0	
IDF _{xh} 2	102	1065 298	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	1.0	
			Py ²⁷ Fd ²⁷		3	300	150	15 0	1.0	
			Py ²⁷ Fd ²⁷		4	400	200	20 0	1.0	
IDF _{xh} 2	103	1065 299	Py Fd		1	200	100	10 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	300	125	12 5	2.0	
			Py Fd ²⁷		3	300	150	15 0	2.0	
			Py Fd ²⁷		4	400	200	20 0	2.0	
IDF _{xh} 2	104	1065 300	Py Fd		1	300	150	15 0	0.0	Fd(0.4),Others(0.6)
			Py Fd		2	400	200	20 0	2.0	
			Py Fd ²⁷		3	500	300	30 0	2.0	
			Py Fd ²⁷		4	600	400	40 0	2.0	
IDF _{xh} 2	110	1065 302	Fd Py		1	600	300	25 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	800	400	30 0	2.0	

			Fd	Py	3	100 0	500	40 0	2.0	
			Fd	Py	4	120 0	700	60 0	2.0	
IDF _{xh} 2	111	1065 303	Fd Py		1	600	300	25 0	0.0	Fd(0.4),Others(0.6)
			Fd Py		2	800	400	30 0	2.0	
			Fd	Py	3	100 0	500	40 0	2.0	
			Fd	Py	4	120 0	700	60 0	2.0	
IDF _{xh} 2	112	1065 304	Fd S _x Py C _w P _l		1	600	300	25 0	0.0	Fd(0.4),Others(0.6)
			Fd S _x Py C _w P _l		2	800	400	30 0	2.0	
			Fd S _x ¹³	Py C _w ^{14 32} P _l ¹²	3	100 0	500	40 0	2.0	
			Fd S _x ¹³	Py C _w ^{14 32} P _l ¹²	4	120 0	700	60 0	2.0	
IDF _{xh} 2	113	1065 305	S _x Fd P _l C _w		1	400	200	20 0	0.0	P _l (0.8),Fd(0.4), Others (0.6)
			S _x Fd P _l C _w		2	600	300	25 0	1.0	
			S _x ¹ Fd ^{1,32}	P _l ^{1,12,50} C _w ^{1 32 50}	3	800	400	30 0	1.0	
			S _x ¹ Fd ^{1,32}	P _l ^{1,12,50} C _w ^{1 32 50}	4	100 0	500	40 0	1.0	
IDF _{xm}	01a	1065 310	Fd		1	600	300	25 0	0.0	Fd(0.4)
			Fd		2	800	400	30 0	2.0	
			Fd ^{27,28}		3	100 0	500	40 0	2.0	
			Fd ^{27,28}		4	120 0	700	60 0	2.0	
IDF _{xm}	01b	1065 311	Fd P _l		1	600	300	25 0	0.0	Fd(0.4),Others(0.8)
			Fd P _l		2	800	400	30 0	2.0	
			Fd ^{27,28} P _l		3	100 0	500	40 0	2.0	
			Fd ^{27,28} P _l		4	120 0	700	60 0	2.0	
IDF _{xm}	02	1065 306	Fd		1	400	200	20 0	0.0	Fd(0.4)
			Fd		2	600	300	25 0	1.0	
			Fd ^{27,28}		3	800	400	30 0	1.0	
			Fd ^{27,28}		4	100 0	500	40 0	1.0	
IDF _{xm}	03	1065 307	Fd P _l		1	400	200	20 0	0.0	P _l (0.8),Fd(0.4)
			Fd P _l		2	600	300	25 0	2.0	

			Fd ^{27,28} Pl		3	800	400	30 0	2.0	
			Fd ^{27,28} Pl		4	100 0	500	40 0	2.0	
IDFxm	04	1065 308	Fd		1	400	200	20 0	0.0	Fd(0.4)
			Fd		2	600	300	25 0	2.0	
			Fd ^{27,28}		3	800	400	30 0	2.0	
			Fd ^{27,28}		4	100 0	500	40 0	2.0	
IDFxm	05	1065 309	Fd		1	600	300	25 0	0.0	Fd(0.4)
			Fd		2	800	400	30 0	2.0	
			Fd ²⁷		3	100 0	500	40 0	2.0	
			Fd ²⁷		4	120 0	700	60 0	2.0	
IDFxm	06	1065 312	Fd		1	600	300	25 0	0.0	Fd(0.4)
			Fd		2	800	400	30 0	2.0	
			Fd ³²		3	100 0	500	40 0	2.0	
			Fd ³²		4	120 0	700	60 0	2.0	
IDFxm	07	1065 313	Fd		1	600	300	25 0	0.0	Fd(0.4)
			Fd		2	800	400	30 0	2.0	
			Fd		3	100 0	500	40 0	2.0	
			Fd		4	120 0	700	60 0	2.0	
IDFxm	08	1065 314	Fd Sx		1	600	300	25 0	0.0	Fd(0.4),Others(0.8)
			Fd Sx		2	800	400	30 0	2.0	
			Fd ³² Sx	Pl	3	100 0	500	40 0	2.0	
			Fd ³² Sx	Pl	4	120 0	700	60 0	2.0	
IDFxm	09	1065 315	Pl Sx		1	400	200	20 0	0.0	Pl(0.8),Sx(0.6)
			Pl Sx		2	600	300	25 0	1.0	
			Pl ¹ Sx ¹		3	800	400	30 0	1.0	
			Pl ¹ Sx ¹		4	100 0	500	40 0	1.0	
IDFxm	01	1065 320	Fd Py		1	600	300	25 0	0.0	Fd(0.4) Py(0.8)
			Fd Py		2	800	400	30 0	2.0	
			Fd ²⁷ Py		3	100 0	500	40 0	2.0	

			Fd ²⁷ Py		4	120 0	700	60 0	2.0	
IDF _{xw}	02	1065 316	Fd Py		1	300	150	15 0	0.0	Fd(0.4) Py(0.6)
			Fd Py		2	400	200	20 0	1.0	
			Fd ^{27,28} Py ²⁸		3	500	300	30 0	1.0	
			Fd ^{27,28} Py ²⁸		4	600	400	40 0	1.0	
IDF _{xw}	03	1065 317	Fd Py		1	300	150	15 0	0.0	Fd(0.4) Py(0.6)
			Fd Py		2	400	200	20 0	2.0	
			Fd ^{27,28} Py ²⁸		3	500	300	30 0	2.0	
			Fd ^{27,28} Py ²⁸		4	600	400	40 0	2.0	
IDF _{xw}	04	1065 318	Fd Py		1	300	150	15 0	0.0	Fd(0.4) Py(0.6)
			Fd Py		2	400	200	20 0	2.0	
			Fd ^{27,28} Py ²⁸		3	600	300	30 0	2.0	
			Fd ^{27,28} Py ²⁸		4	800	500	40 0	2.0	
IDF _{xw}	05	1065 319	Fd		1	600	300	25 0	0.0	Fd(0.4)
			Fd		2	800	400	30 0	2.0	
			Fd ²⁷		3	100 0	500	40 0	2.0	
			Fd ²⁷		4	120 0	700	60 0	2.0	
IDF _{xw}	06	1065 321	Fd Sx		1	600	300	25 0	0.0	Fd(0.4) Sx(0.6)
			Fd Sx		2	800	400	30 0	2.0	
			Fd Sx		3	100 0	500	40 0	2.0	
			Fd Sx		4	120 0	700	60 0	2.0	
IDF _{xw}	07	1065 322	Fd Sx		1	400	200	20 0	0.0	Fd(0.4) Sx(0.6)
			Fd Sx		2	600	300	25 0	1.0	
			Fd Sx		3	800	400	30 0	1.0	
			Fd Sx		4	100 0	500	40 0	1.0	
MS _d m 1	101	1065 326	Fd ^{14,32,203} Lw 14,32,203 Sx B ^{204,208} P ²⁰⁰		1	600	300	25 0	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	30 0	2.0	
			Fd ^{14,32,203} Lw 14,32,203 Sx	Bl ^{204,208} Pl ²⁰⁰	3	100 0	500	40 0	2.0	
			Fd ^{14,32,203} Lw 14,32,203 Sx	Bl ^{204,208} Pl ²⁰⁰	4	120 0	700	60 0	2.0	
MSdm 1	102	1065 323	Fd Lw Py ^{9,14,203} Pl		1	300	150	15 0	0.0	Fd Lw Pl (1.0), Py(0.8)
			Fd Lw Py ^{9,14,203} Pl		2	400	200	20 0	1.0	
			Fd Lw Py ^{9,14,203}	Pl	3	500	300	30 0	1.0	
			Fd Lw Py ^{9,14,203}	Pl	4	600	400	40 0	1.0	
MSdm 1	103	1065 324	Fd Lw Py ^{9,14,203} Pl ²⁰⁰		1	400	200	20 0	0.0	Pl Lw(1.4),Fd Py(0.8)
			Fd Lw Py ^{9,14,203} Pl ²⁰⁰		2	600	300	25 0	2.0	
			Fd Lw Py ^{9,14,203}	Pl ²⁰⁰	3	800	400	30 0	2.0	
			Fd Lw Py ^{9,14,203}	Pl ²⁰⁰	4	100 0	500	40 0	2.0	
MSdm 1	104	1065 325	Pl Fd ³² Lw ³² Bl ²⁰⁸ Sx ²⁸		1	600	300	25 0	0.0	Pl Lw(1.4),Fd Bl Sx(0.6)
			Pl Fd ³² Lw ³² Bl ²⁰⁸ Sx ²⁸		2	800	400	30 0	2.0	
			Pl Fd ³² Lw ³²	Bl ²⁰⁸ Sx ²⁸	3	100 0	500	40 0	2.0	
			Pl Fd ³² Lw ³²	Bl ²⁰⁸ Sx ²⁸	4	120 0	700	60 0	2.0	
MSdm 1	110	1065 327	Pl ²⁰¹ Sx Bl ^{201,208} Fd ^{14,32} Lw ^{14,32}		1	600	300	25 0	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	30 0	2.0	
			Pl ²⁰¹ Sx Bl ^{201,208}	Fd ^{14,32} Lw ^{14,32}	3	100 0	500	40 0	2.0	

			Pl ²⁰¹ Sx Bl ^{201,208}	Fd ^{14,32} Lw ^{14,32}	4	120 0	700	60 0	2.0	
MSdm 1	111.1	1065 328	Pl ²⁰¹ Sx Bl ²⁰¹ 208 Fd ^{14 32} Lw ^{14,32}		1	600	300	25 0	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	30 0	2.0	
			Pl ²⁰¹ Sx Bl ²⁰¹ 208	Fd ^{14 32} Lw ^{14,32}	3	100 0	500	40 0	2.0	
			Pl ²⁰¹ Sx Bl ²⁰¹ 208	Fd ^{14 32} Lw ^{14,32}	4	120 0	700	60 0	2.0	
MSdm 1	111.2	1065 329	Cw ³² Lw ³² Sx Bl ²⁰⁸ Fd ^{14,32} Pl		1	600	300	25 0	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	30 0	2.0	
			Cw ³² Lw ³² Sx	Bl ²⁰⁸ Fd ^{14,32} Pl	3	100 0	500	40 0	2.0	
			Cw ³² Lw ³² Sx	Bl ²⁰⁸ Fd ^{14,32} Pl	4	120 0	700	60 0	2.0	
MSdm 1	112	1065 330	Bl ^{201,208} Sx Fd ^{14,32} Lw ^{14,32} Pl		1	600	300	25 0	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	30 0	2.0	
			Bl ^{201,208} Sx	Fd ^{14,32} Lw ^{14,32} Pl	3	100 0	500	40 0	2.0	
			Bl ^{201,208} Sx	Fd ^{14,32} Lw ^{14,32} Pl	4	120 0	700	60 0	2.0	
MSdm 1	113	1065 331	Sx ¹ Bl ^{1,201,208} Pl ¹		1	400	200	20 0	0.0	Pl (1.0), Bl Sx (0.8)
			Sx ¹ Bl ^{1,201,208} Pl ¹		2	600	300	25 0	1.0	
			Sx ¹ Bl ^{1, 201, 208}	Pl ¹	3	800	400	30 0	1.0	
			Sx ¹ Bl ^{1, 201, 208}	Pl ¹	4	100 0	500	40 0	1.0	
MSdm 2	101	1065 336	Pl Sx Fd Bl Lw		1	600	300	25 0	0.0	
			Pl Sx Fd Bl Lw		2	800	400	30 0	2.0	
			Pl Sx Fd ^{9 14 32} Bl ^{201 208}	Lw ^{9 14 32 203}	3	100 0	500	40 0	2.0	

			Pl Sx Fd ^{9 14 32} Bl ^{201 208}	Lw ^{9 14 32 203}	4	120 0	700	60 0	2.0	Pl Lw(1.4), Others(0.8)
MSdm 2	102	1065 332	Pl Fd Bl		1	300	150	15 0	0.0	Pl(1.0),Others(0.6)
			Pl Fd Bl		2	400	200	20 0	1.0	
			Pl Fd ¹⁴	Py ^{14 203} Bl ^{13 204}	3	500	300	30 0	1.0	
			Pl Fd ¹⁴	Py ^{14 203} Bl ^{13 204} 208	4	600	400	40 0	1.0	
MSdm 2	103	1065 333	Fd Pl Bl Sx		1	400	200	20 0	0.0	Pl, Lw(1.0),Others(0.6)
			Fd Pl Bl Sx		2	600	300	25 0	2.0	
			Pl Fd ³²	Lw ^{32 203} Py ^{9 203} Bl ^{10,13 204} Sx ^{10 13} 204	3	800	400	30 0	2.0	
			Pl Fd ³²	Lw ^{32 203} Py ^{9 203} Bl ^{10 13 204 208} Sx ^{10 13 204}	4	100 0	500	40 0	2.0	
MSdm 2	104	1065 334	Fd Pl Sx Bl Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Fd Pl Sx Bl Lw		2	800	400	30 0	2.0	
			Fd ^{9 14 32} Pl Sx ^{10 13 28}	Bl ^{10 13 28} Lw ¹⁴ 32 203	3	100 0	500	40 0	2.0	
			Fd ^{9 14 32} Pl Sx ^{10 13 28}	Bl ^{10 13 28 208} Lw ^{14 32 203}	4	120 0	700	60 0	2.0	
MSdm 2	105	1065 335	Pl Sx Bl Fd Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Sx Bl Fd Lw		2	800	400	30 0	2.0	
			Pl, Sx, Bl ^{201 208}	Fd ^{9 14 32} Lw ^{9 14} 32 203	3	100 0	500	40 0	2.0	
			Pl, Sx, Bl ^{201 208}	Fd ^{9 14 32} Lw ^{9 14} 32 203	4	120 0	700	60 0	2.0	
MSdm 2	110	1065 337	Pl Sx Bl Lw Fd		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Sx Bl Lw Fd		2	800	400	30 0	2.0	
			Pl Sx Bl ^{201 208}	Lw ^{9 14 32 203} Fd ^{9 14 32}	3	100 0	500	40 0	2.0	

			Pl Sx Bl 201 208	Lw ^{9 14 32 203} Fd ^{9 14 32}	4	120 0	700	60 0	2.0	
MSdm 2	111	1065 338	Pl Sx Bl Fd Lw		1	600	300	25 0	0.0	Pl(1.4), Others(0.8)
			Pl Sx Bl Fd Lw		2	800	400	30 0	2.0	
			Pl Sx Bl 201 208	Fd ^{14, 32} Lw ^{14 32} 203	3	100 0	500	40 0	2.0	
			Pl Sx Bl 201 208	Fd ^{14, 32} Lw ^{14 32} 203	4	120 0	700	60 0	2.0	
MSdm 2	112	1065 339	Sx Bl Pl Fd Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Sx Bl Pl Fd Lw		2	800	400	30 0	2.0	
			Sx Bl ^{201 208}	Pl Fd ^{9 14 32} Lw ⁹ 14 32 203	3	100 0	500	40 0	2.0	
			Sx Bl ^{201 208}	Pl Fd ^{9 14 32} Lw ⁹ 14 32 203	4	120 0	700	60 0	2.0	
MSdm 2	113	1065 340	Pl Sx Bl		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208R}	3	800	400	30 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208R}	4	100 0	500	40 0	1.0	
MSdm 3 (use classifi cation for MSdm 2 in LMH2 3)	1	1065 344	Pl Sx Fd Bl Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Sx Fd Bl Lw		2	800	400	30 0	2.0	
			Pl Sx Fd ^{14 32} Bl ^{201 208}	Lw ^{14 32 203}	3	100 0	500	40 0	2.0	
			Pl Sx Fd ^{14 32} Bl ^{201 208}	Lw ^{14 32 203}	4	120 0	700	60 0	2.0	
MSdm 3 (use classifi cation for MSdm 2 in LMH2 3)	3 shallo w soils	1065 341	Pl Fd Py		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Fd Py		2	600	300	25 0	1.0	
			Pl Fd ¹⁴	Py ^{14 203}	3	800	400	30 0	1.0	
			Pl Fd ¹⁴	Py ^{14 203}	4	100 0	500	40 0	1.0	
MSdm 3 (use classifi cation	3 deep soils	1065 342	Fd Pl Bl Sx Py Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Others(0.6)
			Fd Pl Bl Sx Py Lw		2	600	300	25 0	2.0	

for MSdm 2 in LMH2 3)			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	
MSdm 3 (use classification for MSdm 2 in LMH2 3)	4	1065 343	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	
MSdm 3 (use classification for MSdm 2 in LMH2 3)	5	1065 345	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	
MSdm 3 (use classification for MSdm 2 in LMH2 3)	6	1065 346	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	
MSdm 3 (use classification for MSdm 2 in LMH2 3)	7	1065 347	Pl Sx Bl		1	400	200	200	0.0	Pl(1.0), Others(0.6)
			Pl Sx Bl		2	600	300	250	1.0	
			Sx ¹ Bl ^{1, 201, 208R}	Pl ^{1 200}	3	800	400	300	1.0	
			Sx ¹ Bl ^{1, 201, 208R}	Pl ^{1 200}	4	1000	500	400	1.0	
MSxk1	101a	1065 353	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	30 0	2.0	
			Pl, Sx	Bl ²⁰⁸	3	100 0	500	40 0	2.0	
			Pl, Sx	Bl ²⁰⁸	4	120 0	700	60 0	2.0	
MSxk1	112	1065 356	Pl Sx Bl		1	400	200	20 0	0.0	Pl (1.0),Others(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208}	3	800	400	30 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208}	4	100 0	500	40 0	1.0	
MSxk1	113	1065 357	Pl Sx Bl		1	400	200	20 0	0.0	Pl (1.0),Others(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208}	3	800	400	30 0	1.0	
			Pl ¹ Sx ¹	Bl ^{1 208}	4	100 0	500	40 0	1.0	
MSxk2	101	1065 363	Pl Fd Sx Bl Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Fd Sx Bl Lw		2	800	400	30 0	2.0	
			Pl Fd ^{9,14,32} Sx ^{10,13}	Bl ^{10,13} Lw ^{9 14, 32} 203	3	100 0	500	40 0	2.0	
			Pl Fd ^{9,14,32} Sx ^{10,13}	Bl ^{10,13} Lw ^{9 14 32} 203 208	4	120 0	700	60 0	2.0	
MSxk2	102	1065 358	Pl Fd Bl		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Fd Bl		2	600	300	25 0	1.0	
			Pl Fd ^{9,14 32}	Bl ^{13 28 208 204}	3	800	400	30 0	1.0	
			Pl Fd ^{9,14 32}	Bl ^{13 28 208 204}	4	100 0	500	40 0	1.0	
MSxk2	103	1065 359	Pl Fd Sx		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Fd Sx		2	600	300	25 0	2.0	
			Pl Fd ^{9,14 32}	Sx ^{10,13,28}	3	800	400	30 0	2.0	
			Pl Fd ^{9,14 32}	Sx ^{10,13,28}	4	100 0	500	40 0	2.0	
MSxk2	104	1065 360	Pl Fd Py Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Others(0.6)
			Pl Fd Py Lw		2	600	300	25 0	2.0	
			Pl ²⁰¹ Fd ³²	Py ^{14 203} Lw ^{9 14} 32 203	3	800	400	30 0	2.0	
			Pl ²⁰¹ Fd ³²	Py ^{14 203} Lw ^{9 14} 32 203	4	100 0	500	40 0	2.0	

MSxk2	105	1065 361	Pl Sx Fd Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Sx Fd Lw		2	800	400	30 0	2.0	
			Pl	Sx ^{10,13} Fd ^{9,14, 32} Lw ^{9 14 32 203}	3	100 0	500	40 0	2.0	
			Pl	Sx ^{10,13} Fd ^{9,14, 32} Lw ^{9 14 32 203}	4	120 0	700	60 0	2.0	
MSxk2	106	1065 362	Pl Sx Bl Fd Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Sx Bl Fd Lw		2	800	400	30 0	2.0	
			Pl Sx ^{10, 13}	Bl ^{10,13 208} Fd ^{9,14,32} Lw ^{9 14} 32 203	3	100 0	500	40 0	2.0	
			Pl Sx ^{10, 13}	Bl ^{10,13 208} Fd ^{9,14,32} Lw ^{9 14} 32 203	4	120 0	700	60 0	2.0	
MSxk2	110	1065 364	Pl Sx Bl		1	600	300	25 0	0.0	Pl(1.4), Others(0.8)
			Pl Sx Bl		2	800	400	30 0	2.0	
			Pl Sx	Bl ^{10,13 208}	3	100 0	500	40 0	2.0	
			Pl Sx	Bl ^{10,13 208}	4	120 0	700	60 0	2.0	
MSxk2	111	1065 365	Pl Sx Bl		1	600	300	25 0	0.0	Pl(1.4), Others(0.8)
			Pl Sx Bl		2	800	400	30 0	2.0	
			Pl Sx	Bl ²⁰⁸	3	100 0	500	40 0	2.0	
			Pl Sx	Bl ²⁰⁸	4	120 0	700	60 0	2.0	
MSxk2	112	1065 366	Pl Sx Bl		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Sx ¹	Bl ^{1 208} Pl ^{1 200}	3	800	400	30 0	1.0	
			Sx ¹	Bl ^{1 208} Pl ^{1 200}	4	100 0	500	40 0	1.0	
MSxk 3 (use classifi cation for MSxk)	1	1065 369	Pl Fd Sx Bl Lw		1	600	300	25 0	0.0	Pl Lw(1.4), Others(0.8)
			Pl Fd Sx Bl Lw		2	800	400	30 0	2.0	
			Pl Fd ^{9,14,32} Sx ^{10,13 28 204}	Bl ^{1 13 204} Lw ^{9 14} 32 203	3	100 0	500	40 0	2.0	

			Pl Fd ^{9,14,32} Sx ^{10,13 28 204}	Bl ^{10 13 204 208} Lw ^{9 14 32 203}	4	120 0	700	60 0	2.0	
MSxk 3 (use classifi cation for MSxk)	2	1065 367	Pl Fd Bl		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Fd Bl		2	600	300	25 0	1.0	
			Pl Fd ^{9,14}	Bl ^{10 13 208}	3	800	400	30 0	1.0	
			Pl Fd ^{9,14}	Bl ^{10 13 204 208}	4	100 0	500	40 0	1.0	
MSxk 3 (use classifi cation for MSxk)	5	1065 368	Pl Fd Bl Sx Py Lw		1	400	200	20 0	0.0	Pl Lw(1.0),Others(0.6)
			Pl Fd Bl Sx Py Lw		2	600	300	25 0	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	30 0	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	100 0	500	40 0	2.0	
MSxk 3 (use classifi cation for MSxk)	6	1065 370	Pl Sx Bl Fd		1	600	300	25 0	0.0	Pl(1.4), Others(0.8)
			Pl Sx Bl Fd		2	800	400	30 0	2.0	
			Pl, Sx Bl ^{201 208}	Fd ^{14,32}	3	100 0	500	40 0	2.0	
			Pl, Sx Bl ^{201 208}	Fd ^{14,32}	4	120 0	700	60 0	2.0	
MSxk 3 (use classifi cation for MSxk)	8	1065 371	Pl Sx Bl		1	600	300	25 0	0.0	Pl(1.4), Others(0.8)
			Pl Sx Bl		2	800	400	30 0	2.0	
			Sx Bl ^{201 208}	Pl ²⁰⁰	3	100 0	500	40 0	2.0	
			Sx Bl ^{201 208}	Pl ²⁰⁰	4	120 0	700	60 0	2.0	
MSxk 3 (use classifi cation for MSxk)	9	1065 372	Pl Sx Bl		1	400	200	20 0	0.0	Pl(1.0),Others(0.6)
			Pl Sx Bl		2	600	300	25 0	1.0	
			Sx ¹	Bl ^{1 208} Pl ^{1 200}	3	800	400	30 0	1.0	
			Sx ¹	Bl ^{1 208} Pl ^{1 200}	4	100 0	500	40 0	1.0	

Footnotes

Conifer Tree Species

"Ba" means amabilis fir;

"Bg" means grand fir;

"Bl" means subalpine fir;

"Bp" means noble fir;

"Cw" means western red cedar;

"Fd" means Douglas-fir;

"Hm" means mountain hemlock;

"Hw" means western hemlock;

"Lt" means tamarack;

"Lw" means western larch;

"Pa" means whitebark pine;

"Pl" means lodgepole pine;

"Pw" means white pine;

"Py" means ponderosa pine;

"Sb" means black spruce;

"Se" means Engelmann spruce;

"Ss" means Sitka spruce;

"Sw" means white spruce;

"Sx" means hybrid spruce or interior spruce;

"Sxs" means hybrid Sitka spruce;

"Sxw" means hybrid white spruce;

"Yc" means yellow cedar.

Broadleaf Tree Species

"Acb" means balsam poplar;

"Act" means black cottonwood;

"At" means trembling aspen;

"Dr" means red alder;

"Ep" means common paper birch;

"Mb" means bigleaf maple;

"Qg" means garry oak;

"Ra" means arbutus;

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

"MIN or "Min" means minimum.

* 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

Merritt Forest Stewardship Plan

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 regimes

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 "PI 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% PI in the pre-harvest stand, PI can be moved to preferred;



Aspen Planers Ltd.

- where there is 25-50% PI in the pre-harvest stand, PI can be moved to preferred to a maximum of 50% well-spaced stems.

For areas with less than 25% PI in the pre-harvest stand, or where risk of damage from forest health factors is moderate or high, PI 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, BI 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."

3.0 Fire Interface Stocking Standards

These stocking standards are to be applied within approximately 2 km of the Wildland-Urban Interface (WUI), other high value infrastructure or other high resource values on the land base, or any other areas identified as appropriate for a fire management stocking standard within the resource district fire management plan. In the absence of a description of specific areas, these stocking standards may apply to any other area that the resource district agrees to in writing.

Specifically, these stocking standards apply to the following licences and/or areas:

APPLICABLE FSP	FDU	TENURE	LICENCE	TENURE NAME	Applicable Blocks (Planning #)
Aspen Planers Ltd.	A	FLTC	A97062	Fox Farm Interface	IM1, IM2, IM3 (V19, V22, V34)
Aspen Planers Ltd.	A	FLTC	A97379	8 Mile Interface – Mamit 1(Nadina)	Mamit1, Mamit9-Mamit14 (E85, E102-E107)
Aspen Planers Ltd.	A	FLTC	A97383	8 Mile Interface – Mamit 2 (Aspen)	Mamit2, Mamit3, Mamit4, Mamit8 (E93-95, E101)
Aspen Planers Ltd.	A	FLTC	A97394	Kane Valley Interface	IM5-IM11, IM13 (V16-18, V20, V21, V23, V24, V28)
Aspen Planers Ltd.	A	FLTC	A97367	8 Mile Interface – ADM	ADM1(E86), ADM3(E89), ADM4(E90)-SU2 only
Aspen Planers Ltd.	A	FLTC	A97711	Pooley Ranch	PY1 (E75), PY2 (E76)
Aspen Planers Ltd.	A	FLTC	A98501	8 Mile Interface – SFE1	SFE1 (E121)
Aspen Planers Ltd.	A	FL	A18695	CP 631 Mamit Lake	E109 (E109), E117 (E117), SU2 of E110 (E110), SU2 of E111 (E111), SU2 of E112 (E112)

(a) Even-Aged Stand Target and Minimum Stocking:

BEC Zone	Site Series	Preferred Species	Acceptable Species	Target	Minimum Preferred & Acceptable	Minimum Preferred
IDF xh 1 & 2	All	Fd, Py, At	Lw	400	200	150
IDF dk 1 & 2	All	Fd, Pl, Lw, Py, At	Sx	500	250	200

Species, Free Growing Height is as per sec. 2.0 of Appendix A.

Minimum Inter-tree Distance is as per sec 2.0 of Appendix A.

Species preferred will be added if presently growing on the site and performing well. Species may also be added if ecologically suited and at least moderately fire resistant. .

(b) Target and Minimum density for Multi-Layer Stands:

BEC Zone	Site Series	Preferred Species	Acceptable Species	Layer	Target	Minimum Preferred & Acceptable	Minimum Preferred
IDF xh 1 & 2	All	Fd, Py, At	Lw	1	150	50	50
	All	Fd, Py, At	Lw	2	200	100	100
	All	Fd, Py, At	Lw	3	300	150	100

BEC Zone	Site Series	Preferred Species	Acceptable Species	Layer	Target	Minimum Preferred & Acceptable	Minimum Preferred
	All	Fd, Py, At	Lw	4	400	200	150
IDF dk 1 & 2	All	Fd, Pl, Lw, Py, At	Sx	1	150	50	50
	All	Fd, Pl, Lw, Py, At	Sx	2	200	100	100
	All	Fd, Pl, Lw, Py, At	Sx	3	400	200	150
	All	Fd, Pl, Lw, Py, At	Sx	4	500	250	200

- (c) For areas that are closer than 500m to a community, and/or where there is a desire by the Cascades Natural Resource District to pursue ongoing treatments or a proposed heavy grazing program, or something similar not conducive with meeting silviculture obligations, an exemption from those obligations may be granted by the District Manager.

4.0 Merritt Integrated Stewardship Strategy's Enhanced Stocking Standards



File: 18045-30/Aspen Planers Ltd.

September 13, 2021

EMAILED

Aspen Planers Ltd.
PO Box 160
Merritt, British Columbia
V1K 1B8

Dear Aspen Planers:

The Forest Stewardship Plan (FSP) Amendment 11 request of June 22, 2021 to amend your stocking standards to include the Merritt Integrated Silviculture Strategy stocking standards for the Merritt Timber Supply Area (TSA) has now been fully reviewed.

Determination

I am satisfied that the proposed amendment has been prepared and submitted in accordance with Section 5 of the *Forest and Range Practices Act* (FRPA) (the *Act*) and regulations. I am also aware that as per Section 20(5) of the Forest Planning and Practices Regulation (FPPR) a public notice is not required for a Section 16 FPPR stocking standards amendment. I am satisfied that these standards are reasonable and meet the test of Section 26(5) FPPR and will be applied to areas within the Merritt TSA.

Accordingly, as the delegated decision maker, I hereby approve your Forest Stewardship Plan Amendment 11 under Section 16(1) of the *Act*. As of the effective date, all development under your licences in the area under the plan must be done in accordance with the approved Forest Stewardship Plan.

Yours truly,



Jennifer Reid, RPF
District Manager
Cascades Natural Resource District (CNRD)

cc: Ed Nedokus, Aspen Planers: ednedokus@apgroup.ca
Suzanne Shears, CNRD: Suzanne.Shears@gov.bc.ca

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

Cascades Natural Resource District
(Previously Cascades Forest District under
the Forest Act)

Location:
3840 Airport Road
Merritt, British Columbia

Mailing Address:
PO Box 4400 Station Main
Merritt, BC V1K 1B8
Tel: (250) 378-8400
Fax: (250) 378-8481



File: 18000-01

May 13, 2021

To Whom it May Concern:

RE: Merritt Integrated Stewardship Strategy's Enhanced Stocking Standards

Enhanced basic silviculture is intended to enhance the productivity of British Columbia's forests by increasing the number of trees growing per hectare. The Interior Appraisal Manual has been updated to reflect the terms and conditions for using these Enhanced Stocking Standards (Section 4.5.1; Interior Appraisal Manual effective July 1, 2019). These standards are specific to the Merritt Timber Supply Area and can only be applied to harvested areas within that administrative boundary.

The Merritt Timber Supply Area Integrated Stewardship Strategy (ISS) recommended increased planting densities as a means to increase timber production and manage for possible increased mortality at a stand level due to climate change. Conclusions from the analysis show that harvest flows could be increased up to 6.0% by employing enhanced silviculture techniques such as increased planting densities.

I encourage forest professionals considering applying Enhanced Stocking Standards in their prescriptions to consult the ISS for guidance as to when and where to best apply these standards on the land base.

These standards were developed to support the conclusions of the Merritt Timber Supply Area ISS and are endorsed through this statement.

Sincerely,



Jennifer Reid, RPF
District Manager
Cascades Natural Resource District

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

Cascades Natural Resource District
*(Previously Cascades Forest District
under the Forest Act)*

Location:
3840 Airport Road
Merritt, British Columbia
CANADA

Mailing Address:
Box 4400 Station Main
Merritt, British Columbia
V1K 1B8
Tel: (250) 378-8400
Fax: (250) 378-8481

Proposed Merritt ISS Enhanced Stocking Standards

BGC		Species		Free Growing				Assessments				Additional Standards	
Classification		Preferred	Acceptable	Target	MINpa	MINp	MITD	Regen Delay	Free Growing	Min. Height		Minimum Planting Density/ha	
Zone/ Subzone	Site Series	(p)	(a)	(well-spaced/ha)				(yrs)	(yrs)	Species	Ht (m)		
SSID							(m)						
ESSFdc2													
1063350	1	Se Bl ²⁰¹²⁰⁰	Pi ²⁰⁰	1200	700	600	2.0	4	20	Pli Other	1.6 0.8	1800	
1063351	2	Pi Pa ³¹	Fd ¹⁴³² Bl ²⁰¹²⁰⁰ Se ²⁰	1000	500	400	1.0	4	20	Pli Other	1.2 0.6	1800	
1063352	4	Pi Se Bl ²⁰¹²⁰⁰		1000	500	400	2.0	4	20	Pli Other	1.2 0.6	1800	
1063353	5	Pi Bl ²⁰¹²⁰⁰ Se ²⁰		1200	700	600	2.0	4	20	Pli Other	1.6 0.8	1800	
1063354	7	Bl ²⁰¹²⁰⁰ Se	Pi ²⁰⁰	1200	700	600	2.0	4	20	Pli Other	1.6 0.8	1800	
1063355	8	Bl ¹²⁰⁰ Se ¹³²		1000	500	400	1.0	4	20	Pli Other	1.2 0.6	1800	
ESSFdcv													
1063356	101	Bl ²⁰⁰ Se	Pi ²⁰⁰	1200	700	600	2.0	4	20	Pli Other	1.2 0.6	1800	
1063357	102	Bl ²⁰⁰ Se Pa ²⁰¹	Pi ¹⁴	1000	500	400	1.0	4	20	All	0.8	1800	
1063358	103	Bl ²⁰⁰ Se	Pa	1200	700	600	2.0	4	20	All	0.8	1800	
1063359	110	Bl ²⁰⁰ Se		1000	500	400	2.0	4	20	All	0.8	1800	
ESSFmiv													
1063360	1	Se Bl ²⁰¹²⁰⁰ Ba ²⁰¹ ₂₀₂	Pi ²⁴²⁰⁰ Hm ^{10,12,20} Hw ^{10,14} Pw ¹⁴³¹ Cw ¹⁴³² Fd ¹⁴³²	1200	700	600	2.0	4	20	Pli Other	2.0 1.0	1800	
1063361	2	Pi Bl ¹²⁰¹²⁰⁰ Se ¹³ Pa ¹³¹²⁰¹	Fd ¹⁴	1000	500	400	1.0	4	20	Pli Other	1.4 0.8	1800	
1063362	3	Pi ²⁴²⁰¹ Se Bl ²⁰¹²⁰⁰ Pa ¹³¹²⁰¹	Ba ³² Fd ^{14,32,34} Lw ^{1432,200}	1000	500	400	2.0	4	20	Pli Lw Other	1.4 0.8	1800	
1063363	4	Pi Fd ¹⁴ Se ²⁰	Bl ²⁰²⁰⁰ Ba ²⁰²⁰² Pa ^{13,31} Lw ¹⁴²⁰⁰	1200	700	600	2.0	4	20	Pli Lw Other	2.0 1.0	1800	
1063364	5	Se Bl ²⁰¹²⁰⁰ Ba ²⁰¹ ₂₀₂	Pi ²⁴²⁰⁰ Hm ^{10,12,20} Hw ^{10,14} Pw ¹⁴³¹ Cw ¹⁴³² Fd ¹⁴³²	1200	700	600	2.0	4	20	Pli Other	2.0 1.0	1800	
1063365	6	Bl ²⁰¹²⁰⁰ Se	Pi ¹⁴	1200	700	600	2.0	4	20	Pli Other	2.0 1.0	1800	
1063368	8	Bl ¹²⁰⁰ Se ¹³²	Pi ^{1,14} Pw ¹³¹	1000	500	400	1.0	4	20	Pli Other	1.4 0.8	1800	
ESSFmiv													
1063682	1	Pi Se Bl ²⁰¹²⁰⁰		600	400	400	2.0	4	20	Pli Other	1.6 0.8	1800	
1063683	2	Pi Pa ¹⁵	Bl ¹²⁰²⁰⁰ Se ^{10,12,20} Fd ¹⁴³² Lw ^{1432,200}	1000	500	400	1.0	4	20	Pli Lw Other	1.2 0.6	1800	
1063684	5	Pi	Bl ¹²⁰⁰ Se Fd ¹⁴³² Lw ¹⁴²⁰⁰	1000	500	400	2.0	4	20	Pli Lw Other	1.2 0.6	1800	
1063685	6	Pi Se Bl ¹²⁰¹²⁰⁰		1200	700	600	2.0	4	20	Pli Other	1.6 0.8	1800	
1063686	7	Pi Se ³² Bl ¹²⁰²⁰⁰		1200	700	600	2.0	4	20	Pli Other	1.6 0.8	1800	
1063687	8	Pi ¹ Se ^{1,32}	Bl ¹³²²⁰⁰	1000	500	400	1.0	4	20	Pli Other	1.2 0.6	1800	
IDFvht1													
1063688	1	Fd ²⁷ , Py		1000	500	500	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063689	2	Py ²⁷ Fd ²⁷		400	200	200	1.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 100 well spaced Fdi crop trees/ha
1063690	3	Py Fd ²⁷		600	400	400	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
1063691	6	Fdi	Py	1000	500	400	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063692	7	Fdi	Py	1000	500	400	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063693	8	Fdi, Sh ¹²	Cw ^{14,32} , Pli ¹²	1200	700	600	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 600 well spaced Fdi crop trees/ha

BGC				Free Growing				Assessments				Additional Standards	
Classification		Species		Stocking			MITD	Regen	Free	Min. Height		Minimum Planting Density/ha	
Zone/	Site	Preferred	Acceptable	Target	MINpa	MINp		Delay	Growing	Species	Ht		
Subzone	Series	(p)	(a)	(well-spaced/ha)			(m)	(yrs)	(yrs)		(m)		
IDFsh2													
1063694	1	Fd ²⁷ , Py		1000	500	500	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063695	2	Py ²⁷ Fd ²⁷		400	200	200	1.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 100 well spaced Fdi crop trees/ha
1063696	3	Py Fd ²⁷		400	200	200	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 100 well spaced Fdi crop trees/ha
1063697	4	Py, Fd ²⁷		600	400	400	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
1063698	6	Fdi	Py	1200	700	600	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063699	7	Fdi, Sk ¹³	Cw ^{14,32} , Pl ¹²	1200	700	600	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 600 well spaced Fdi crop trees/ha
1063700	8	Fdi, Sk ¹³	Cw ^{14,32} , Pl ¹²	1200	700	600	2.0	4	20	All	0.6	1800	At time of regen delay declaration there must be 600 well spaced Fdi crop trees/ha
IDFdk1													
1063701	1	Fdi, Pl	Py ¹⁴ Sk ^{10,13} Lw ²⁰³	1000	500	400	2.0	4	20	Fdi Py Pl Lw Sk	0.8 0.6 1.0 1.0 0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063702	2	Fd ²⁷ Py ¹⁴	Pl ¹²	600	400	400	1.0	4	20	Fdi Py Pl	0.8 0.6 1.0	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
1063703	3	Fd ²⁷ Pl	Py ¹⁴	600	400	400	2.0	4	20	Fdi Py Pl	0.8 0.6 1.0	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
1063704	4	Fd Pl ²⁰¹	Py ¹⁴ Sk ^{10,13} Lw ²⁰³	1000	500	400	2.0	4	20	Fdi Py Pl Lw Sk	0.8 0.6 1.0 1.0 0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063705	5	Fd ²² Sk	Bl ^{10,13,204} Pl Lw ^{32,203}	1000	500	400	2.0	4	20	Fdi Py Pl Lw Bl	0.8 0.6 1.0 1.0 0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063706	6	Pl ¹² Sk ¹	Bl ^{12,13,203}	1000	500	400	1.0	4	20	Pl Sk Bl	1.0 0.6 0.6	1800	
IDFdk2													
1063707	1	Fd Pl ²⁰¹	Py ¹⁴ Sk ^{10,13,204} Lw ²⁰³	1000	500	400	2.0	4	20	Fdi Py Pl Lw Sk	0.8 0.6 1.0 1.0 0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063708	2	Fd ²⁷ Py ¹⁴ Pl		600	400	400	1.0	4	20	Fdi Py Pl	0.8 0.6 1.0	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
1063709	3	Fd ²⁷ Py ¹⁴ Pl ²⁰¹	Lw ^{27,203}	1000	500	400	2.0	4	20	Fdi Py Pl Lw	0.8 0.6 1.0 1.0	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063710	5	Fd ²² Sk Pl ²⁰¹	Cw ³² Bl ²⁰⁴ Lw ^{32,203}	1200	700	600	2.0	4	20	Fdi Py Pl Lw Bl Cw Sk	1.0 0.8 1.4 1.4 0.6 0.6 0.6	1800	At time of regen delay declaration there must be 1000 well spaced Fdi crop trees/ha
1063711	6	Fd ²² Sk Pl ²⁰¹	Bl ^{12,13,204}	1000	500	400	1.0	4	20	Pl Lw Sk Bl	1.0 0.8 0.6 0.6	1800	At time of regen delay declaration there must be 200 well spaced Fdi crop trees/ha
MS sk (sk1&2)													
1063712	1	Pl, Fd ^{14,32} , Sk ^{10,13}	Bl ^{10,13,203} , Lw ^{14,42,203}	1200	700	600	2.0	4	20	Pl Lw Other	1.4 0.8	1800	
1063713	2	Pl, Fd ^{14,32}	Bl ^{12,20,204,203}	1000	500	400	1.0	4	20	Pl Other	1.0 0.6	1800	
1063714	5	Pl ²⁰¹	Sk ^{10,13} Fd ^{14,32} Lw ^{14,32,203}	1200	700	600	2.0	4	20	Pl Lw Other	1.0 0.6	1800	
1063715	7	Pl Sk	Bl ^{10,13,204} Lw ^{14,32,203}	1200	700	600	2.0	4	20	Pl Lw Other	1.4 0.8	1800	
1063716	8	Pl Sk	Bl ²⁰³	1200	700	600	2.0	4	20	Pl Other	1.4 0.8	1800	
1063717	9	Sk ¹	Bl ¹²⁰³ Pl ¹²⁰⁰	1000	500	400	1.0	4	20	Pl Other	1.0 0.6	1800	

Appendix B: Forest Stewardship Plan Maps

-

Maps 1 through 8 show the following information:

Forest Development Units
Old Forest Polygons and Community Watersheds
Ungulate Winter Range (Mule Deer, Elk and Big Horn Sheep)
Moose Winter Range
Goat Winter Range
Known Locations and Incidence of Species
Wildlife Habitat Areas
Identified Scenic Areas
Suitable Gopher Snake Habitat
Recreation Polygons and Trails

Appendix C: Declared areas under section 14 (4) of the *FPPR*

LICENCE	CUTTING PERMIT	BLOCK	ASPEN PLANNING #	GEOGRAPHIC LOCATION
Unassigned	Unassigned	Unassigned	A17-18	Frogmore
Unassigned	Unassigned	Unassigned	C16, 18	Bob Lake
Unassigned	Unassigned	Unassigned	C26-27	Helmer
Unassigned	Unassigned	Unassigned	C33	Helmer
Unassigned	Unassigned	Unassigned	E29, 30, 44-50	Eve Lake
Unassigned	Unassigned	Unassigned	E51-59	Jesse Creek
Unassigned	Unassigned	Unassigned	E61-66	Eve Lake
Unassigned	Unassigned	Unassigned	M33, 35, 44, 57, 70-78	Spilus
Unassigned	Unassigned	Unassigned	M49-51, 54-56, 60, 61	Gillis Lake
Unassigned	Unassigned	Unassigned	N44	Nicomen
Unassigned	Unassigned	Unassigned	Q36, 39-43, 46-50	Beak Creek
Unassigned	Unassigned	Unassigned	R1-7, 11, 14, 16, 19-29	Frank Ward
Unassigned	Unassigned	Unassigned	S57-66	Blue Earth
Unassigned	Unassigned	Unassigned	S74, 77-89, 90-92	Gordon Lake/WL 359
Unassigned	Unassigned	Unassigned	U3-6, 8, 9	Spilus
Unassigned	Unassigned	Unassigned	U7, 18-19, 42-44	Spilus
Unassigned	Unassigned	Unassigned	U10, 25, 28, 29	Spilus
Unassigned	Unassigned	Unassigned	U20-21, 45-46	22km Spilus
Unassigned	Unassigned	Unassigned	U30-31	Spilus/Manning
Unassigned	Unassigned	Unassigned	U36, 38-41	Dean Fire
Unassigned	Unassigned	Unassigned	U47-49, 32-35, 37, 38	Spilus Br. 22

Appendix D: Objectives for interpretive forest sites, recreation sites and recreation trails (FRPA ss.180 and 181)

Site or Trail Name	Type	Objectives
Another Lake	Map	00-01-31 The objective is to manage Another Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by non-motorized trail.
Bob Lake East	Map	00-01-31 The objective is to manage Bob Lake E. for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Very rough road access to the lake; also walk in access from Bob Lake West.
Butler Lake	Map	00-01-31 The objective is to manage Butler Lake for a semi primitive non-motorized recreation experience. The trailhead, trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by a non-motorized trail.
Centre Lake	Map	00-01-31 The objective is to manage Centre Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for hiking, nature observation, and picnicking will be available.
Debbie Lake	Map	00-01-31 The objective is to manage Debbie Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by a rough four-wheel drive road.
Farr Lake	Map	00-01-31 The objective is to manage Farr Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site.
Gillis Lake East	Map	00-01-31 The objective is to manage Gillis Lake E. for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site.
Hamilton Pond	Map	00-01-31 The objective is to manage Hamilton Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by a rough four-wheel drive road.
Jim Kelly Creek	Map	00-01-31 The objective is to manage Jim Kelly Creek for a roaded recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, and swimming will be available.
John's Lake	Map	00-01-31 The objective is to manage John's Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by non-motorized trail.
Mab Lake	Map	00-01-31 The objective is to manage Mab Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by a rough four-wheel drive road.
Mystery Lake	Map	00-01-31 The objective is to manage Mystery Lake for a semi primitive motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Very rough road access to the site via the utility corridor.
Osprey Lake South	Map	00-01-31 The objective is to manage Osprey Lake South for a semi primitive motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by motorized trail.
Peterhope Lake South	Map	00-01-31 The objective is to manage Peterhope Lake S. for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available.
Rogene Lake	Map	00-01-31 The objective is to manage Rogene Lake for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is via Bob's-Elkhart Trail (project 5877), no motorized use permitted.
Tulameen Falls	Map	00-01-31 The objective is to manage Tulameen Falls for a semi primitive non-motorized recreation experience. The creek shoreline and natural vegetation will be conserved. Access is by non-motorized trail.

Site or Trail Name	Type	Objectives
Abbot Lake	Site	00/01-31 The objective is to manage the Abbott Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Andy's Lake	Site	00-01-31 The objective is to manage the Andy's Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Access to lake from recreation site is by non-motorized trail. It is also a part of the Thynne Mtn. Snowmobile trail system. An emergency shelter is located across from the recreation site.
Antler Lake	Site	00-01-31 The objective is to manage the Antler Lake recreation site for a roaded and semi primitive non-motorized recreation experience. The trailhead, trail and the campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, hiking, picnicking, boating, and swimming will be available at the site. Camping facilities are available at the trailhead/parking area. Access to the lake is by non-motorized trail.
Billy Lake	Site	00-01-31 The objective is to manage the Billy Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Bluey Lake	Site	00-01-31 The objective is to manage the Bluey Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Bob Lake West	Site	00-01-31 The objective is to manage the Bob Lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Bobs Lake	Site	00-01-31 The objective is to manage the Bobs Lake recreation site for a roaded experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Boss Lake	Site	00-01-31 The objective is to manage the Boss Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. ATV opportunities are available nearby.
Brook Lake	Site	00-01-31 The objective is to manage Brook Lake for a semi primitive non-motorized recreation experience. The trailhead, trail and lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site. Lake is located within a community watershed. Access is by non-motorized trail. Snowmobile activities are available in the winter.
Buck Lake	Site	00-01-31 The objective is to manage the Buck Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Cabin Lake	Site	00-01-31 The objective is to manage the Cabin Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Calling Lake	Site	00-01-31 The objective is to manage the Calling Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Chain Lake West	Site	00-01-31 The objective is to manage the Chain Lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site.
Clifford Lake	Site	00-01-31 The objective is to manage the Clifford Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.

Site or Trail Name	Type	Objectives
Copper Creek	Site	00-01-31 The objective is to manage the Copper Creek recreation site for a roaded recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and swimming will be available at the site. During the winter, the recreation site may serve as a trailhead for the Placer Mountain Snowmobile trail.
Davis Lake	Site	00-01-31 The objective is to manage the Davis Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Located within a Ducks Unlimited Project area. ATV opportunities are available nearby.
Deadman Lake	Site	00-01-31 The objective is to manage Deadman Lake S. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Dewdney (L2212)	Site	00-01-31 The objective is to manage the Dewdney recreation site for a roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, river canoeing, kayaking, picnicking and swimming will be available at the site. Hiking opportunities are available, nearby, on a portion of the historic Dewdney Trail.
Dot Lake	Site	00-01-31 The objective is to manage the Dot Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating, and swimming will be available at the site.
Eastmere / Westmere Lk	Site	00-01-31 The objective is to manage the Eastmere/Westmere Lake recreation site for a semi primitive non-motorized recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site. Access is by non-motorized trail.
Elkart Lake	Site	00-01-31 The objective is to manage the Elkhart Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Garrison Lake	Site	00-01-31 The objective is to manage the Garrison Lake recreation site for a semi primitive non-motorized recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for hiking, camping, picnicking and swimming will be available at the site. Access is by non-motorized trail.
Gill Lake & Trail	Site	00-01-31 The objective is to manage Gill Lake recreation site for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by non-motorized trail from utility corridor. The objective is to manage Gill Lake Trail for a semi primitive non-motorized recreation experience. The trail and natural vegetation will be conserved. Opportunities for hiking, mountain biking, and equestrian uses are available, no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the center line of the trail.
Gillis Lake West	Site	00-01-31 The objective is to manage the Gillis Lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Glimpse Lake North	Site	00-01-31 The objective is to manage the Glimpse Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Glimpse Lake South	Site	00-01-31 The objective is to manage the Glimpse Lake SW recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Goose Lake North	Site	00-01-31 The objective is to manage the Goose Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site.
Goose Lake South	Site	00-01-31 The objective is to manage the Goose Lake S. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.

Site or Trail Name	Type	Objectives
Gordon Lake	Site	00-01-31 The objective is to manage the Gordon Lake recreations site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough road access to the site will be maintained for four wheel drive vehicles
Granite Creek	Site	00/01/31 The objective is to manage the Granite Creek recreation site for a roaded recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, canoeing, kayaking and swimming will be available at the site.
Gus's Pond & Trail	Site	00-01-31 The objective is to manage Gus' pond recreation site for a semi primitive non-motorized recreation experience. The lakeshore and adjacent vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available, no motorized use permitted as per the Pennask LRUP.
Gwen Lake	Site	00-01-31 The objective is to manage Gwen Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Gypsum Lake South	Site	00-01-31 The objective is to manage Gypsum Lake S. for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available.
Gypsum Lake West	Site	00-01-31 The objective is to manage the Gypsum Lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, hiking, picnicking, boating, and swimming will be available at the time.
Harmon Lake (E & W)	Site	00-01-31 The objective is to manage the Harmon Lake E. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating, and swimming will be available at the site.
Harmon Lake West	Site	00-01-31 The objective is to manage the Harmon Lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. This site also contains some walk-in sites.
Helmer Lake	Site	00-01-31 The objective is to manage the Helmer Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Walk in from nearby Helmer Interchange, gate locked Tuesday before May long weekend and open Friday before Thanksgiving weekend.
Hook Lake North	Site	00-01-31 The objective is to manage the Hook Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site, via the utility corridor.
Island Lake	Site	00-01-31 The objective is to manage the Island Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Jackson Lake & Trail	Site	00-01-31 The objective is to manage the Jackson Lake recreation for a semi primitive motorized recreation experience. The lakeshore and adjacent vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available, no motorized use permitted as per the Pennask LRUP. The objective is to manage the Jackson Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking, and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Jacobson Lake	Site	00-01-31 The objective is to manage the Jacobson Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, boating, equestrian, and swimming will be available at the site.
Jameson Lake	Site	00-01-31 The objective is to manage Jameson Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by rough four-wheel drive road.

Site or Trail Name	Type	Objectives
Johnny Lake	Site	00-01-31 The objective is to manage the Johnny's Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Jono Lake	Site	00-01-31 The objective is to manage Jono Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by rough four-wheel drive road.
Kane Lake	Site	00-01-31 The objective is to manage the Kane Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, equestrian, hiking, picnicking, boating, and swimming will be available at the site. In the winter, there are opportunities for cross-country skiing.
Kump Lake	Site	00-01-31 The objective is to manage the Kump Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Leroy Lakes	Site	00-01-31 The objective is to manage the LeRoy recreation site and trail for a roaded and semi primitive non-motorized recreation experience. The trailhead, trail and campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for hiking, mountain biking, equestrian use, camping, picnicking, boating, and swimming will be available at the site. Roaded to trailhead, then walk-in to the site.
Lightning Lake	Site	00-01-31 The objective is to manage the Lightning Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Lily Lake	Site	00-01-31 The objective is to manage the Lily Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Link Lake	Site	00-01-31 The objective is to manage the Link Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Little Box Canyon	Site	00-01-31 The objective is to manage the Little Box Canyon recreation site for a roaded recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, river boating, and swimming will be available at the site. Very rough road access to the site.
Little Douglas Lake	Site	00-01-31 The objective is to manage the Little Douglas Lake recreation site for a semi primitive non-motorized recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, river boating, and swimming will be available at the site. Access is by non-motorized trail.
Little Mellin / Holmes	Site	00-01-31 The objective is to manage Little Mellin/Holmes recreation site for a semi primitive non-motorized recreation experience. The lakeshore and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, river boating, and swimming will be available at the site. No motorized use permitted, as per the Pennask LRUP.
Little Spahomin Lk & Trail	Site	00-01-31 The objective is to manage Little Spahomin Lake Recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, river boating, and swimming will be available at the site. No motorized use permitted, as per the Pennask LRUP.
Lodestone Lake	Site	00-01-31 The objective is to manage the Lodestone Lake recreation site for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking, mountain biking, equestrian, boating, and swimming will be available at the site. Access is by a rough four-wheel drive road.
Lodwick Lake North	Site	00-01-31 The objective is to manage Lodwick Lake N. recreation site for a recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Lodwick Lake South	Site	00-01-31 The objective is to manage Lodwick Lake S. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.

Site or Trail Name	Type	Objectives
Loosemore Lake	Site	00-01-31 The objective is to manage the Loosemore Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Lundbom Lake (West)	Site	00-01-31 The objective is to manage the Lundbom lake W. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, equestrian and swimming will be available at the site.
Lundbom Lake East	Site	00-01-31 The objective is to manage the Lundbom Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Marquart Lake (E & W)	Site	00-01-31 The objective is to manage the Marquart Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Site on the west end is walk-in from the parking lot.
Mellin Lake	Site	00-01-31 The objective is to manage the Mellin Lake recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and adjacent natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. No motorized use permitted, as per the Pennask LRUP.
Michael Lake	Site	00-01-31 The objective is to manage Michael Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Very rough access to the site will be maintained for four-wheel drive vehicles.
Missezula Lake North	Site	00-01-31 The objective is to manage the Missezula Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Murphy Lakes	Site	00-01-31 The objective is to manage the Murphy Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Access to lake from the recreation site is by a non-motorized trail.
Murray Lake North	Site	00-01-31 The objective is to manage the Murray Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Murray Lake South	Site	00-01-31 The objective is to manage the Murray Lake S. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
N'Kwala Site	Site	00-01-31 The objective is to manage the N'Kwala recreation site for a roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site.
Old Hedley Road East	Site	00-01-31 The objective is to manage the Old Hedley Road E. recreation site for a roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site.
Old Hedley Road W	Site	00-01-31 The objective is to manage the Old Hedley Road W. recreation site for a roaded recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, river canoeing, kayaking and swimming will be available at the site.
Osprey Lake North	Site	00-01-31 The objective is to manage the Osprey Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Peter Hope Lake North	Site	00-01-31 The objective is to manage the Peterhope Lake N. recreation site for a roaded recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Pimainus East	Site	00-01-31 The objective is to manage the Pimainus Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.

Site or Trail Name	Type	Objectives
Placer Lake	Site	00-01-31 The objective is to manage the Placer Lake recreation site for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Power Lake	Site	00-01-31 The objective is to manage Power Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by rough four-wheel drive road via the utility corridor.
Prosser Lake	Site	00-01-31 The objective is to manage the Prosser Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough access to the site will be maintained for four-wheel drive vehicles.
Rampart Lake	Site	00-01-31 The objective is to manage the Rampart Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Red Rock Canyon	Site	00-01-31 The objective is to manage the Red Rock Canyon for a roaded recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), kayaking, canoeing, picnicking and swimming will be available.
Reservoir Lake	Site	00-01-31 The objective is to manage the Reservoir Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Rickey Lake	Site	00-01-31 The objective is to manage the Ricky Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Robertson Lake	Site	00-01-31 The objective is to manage Robertson Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating and swimming will be available at the site.
Roscoe Lake	Site	00-01-31 The objective is to manage the Roscoe Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, hiking and swimming will be available at the site. Rough seasonal four-wheel drive access.
Shea Lake	Site	00-01-31 The objective is to manage the Shea Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Silver Lake	Site	00-01-31 The objective is to manage the Silver Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Stevens Lake	Site	The objective is to manage Stevens Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available.
Stony Lake	Site	00-01-31 The objective is to manage the Stoney Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Stringer Lake	Site	00-01-31 The objective is to manage the Stringer Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Surrey Lake	Site	00-01-31 The objective is to manage Surrey Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available.
Sussex Lake	Site	00-01-31 The objective is to manage the Sussex Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Sutter Creek	Site	00-01-31 The objective is to manage the Sutter Creek recreation site for a roaded recreation experience. The campsite will be maintained; the creek shoreline and natural

Site or Trail Name	Type	Objectives
		vegetation will be conserved. Opportunities for camping, picnicking and swimming will be available at the site.
Tahla Lake	Site	The objective is to manage the Tahla Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Thalia Lake North	Site	00-01-31 The objective is to manage the Thalia Lake N. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Thalia Lake South	Site	00-01-31 The objective is to manage the Thalia Lake S. recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
The Keeper	Site	00-01-31 The objective is to manage The Keeper for a roaded recreation experience. The river shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking and swimming will be available. Access is by a rough four-wheel drive road.
Third Lake	Site	00-01-31 The objective is to manage the Third Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Tupper Lake	Site	00-01-31 The objective is to manage the Tupper Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Two Island Lake	Site	00-01-31 The objective is to manage Two Island recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by non-motorized trail as per the Pennask LRUP.
Tyner Lake	Site	00-01-31 The objective is to manage the Tyner Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.
Vinson Lake	Site	00-01-31 The objective is to manage Upper Boulder Lake for a semi primitive non-motorized recreation experience. The trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access to the lake is by a non-motorized trail.
Vuich Falls	Site	00-01-31 The objective is to manage the Vuich Falls recreation site for a roaded recreation experience. The campsite will be maintained; the river/creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and swimming will be available at the site.
Wasley Lake	Site	00-01-31 The objective is to manage Wasley Lake recreation site for a semi primitive non-motorized recreation experience. The trail will be maintained. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by non-motorized trail as per the Pennask LRUP.
Wells Lake	Site	00-01-31 The objective is to manage the Wells Lake recreation site for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Zum Peak	Site	00-01-31 The objective is to manage the Zum Peak recreation site for a roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, hiking and swimming will be available at the site.
Bob's - Elkhart Lake	Trail	00-01-31 The objective is to manage the Bob's-Elkhart recreation trail for a semi primitive non-motorized recreation experience. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. The trail will be maintained and adjacent vegetation conserved. Opportunities may include but are not limited to hiking, mountain biking and equestrian use. Facilities are only available at Bob's Lake Recreation site trailhead.

Site or Trail Name	Type	Objectives
China Ridge X Country Ski	Trail	00-01-31 In winter, when snow is on the ground, the objective is to manage the China Ridge recreation trail for a semi primitive non-motorized recreation experience, opportunities for cross country skiing are available, no motorized use permitted, other than for track setting, trail grooming activities and at designated crossings. In the summer, during the snow free season, the objective is to manage the trail for a roaded resource recreation experience. The trail will be maintained and adjacent vegetation conserved. The trail width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail. Facilities include open shelters throughout the system and an emergency shelter issued under SUP 19107L
Garrison Lakes Trail	Trail	00-01-31 The objective is to manage the Garrison Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted. The total trail width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Godey Creek Int. Trail	Trail	00-01-31 The objective is to manage Godey Creek Interpretative trail for a semi primitive non-motorized recreation experience. The trail will be maintained. The natural vegetation will be conserved. Opportunities for nature study, hiking, viewing, and picnicking will be available. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Gypsum Mountain Trail	Trail	00-01-31 The objective is to manage the Gypsum Mtn. Recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Harmon Lake Interp Trail	Trail	00-01-31 The objective is to manage the Harmon Lake interpretative trail for a semi primitive non-motorized recreation experience. The trail will be maintained; and natural vegetation will be conserved. Opportunities for nature study, hiking, viewing and picnicking will be available. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Kane Valley Trails	Trail	00-01-31 In winter, when snow is on the ground, the objective is to manage the Kane Valley recreation trail for a semi primitive non-motorized recreation experience, opportunities for cross country skiing are available, no motorized use permitted, other than for track setting and trail grooming activities. In the summer, during the snow free season, the objective is to manage the trail for a roaded resource recreation experience; opportunities for hiking, equestrian, mountain biking and trail bike/ATV riding are available. The trail will be maintained and adjacent vegetation conserved. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Knight Lake Trail	Trail	00-01-31 The objective is to manage the Knight Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Little Douglas Trail	Trail	00-01-31 The objective is to manage the Little Douglas Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail.
Little Mellin / Holmes	Trail	00/01/31 The objective is to manage Little Mellin/Holmes Trail for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for hiking, mountain biking, and equestrian uses are available. No motorized use permitted, as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Little Spahomin Lk & Trail	Trail	00-01-31 The objective is to manage Little Spahomin Lake Trail for a semi primitive non-motorized recreation experience. The trail will be maintained and natural vegetation will be conserved. Opportunities for hiking, mountain biking and equestrian uses are available. No motorized use permitted, as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Lundbom / Tent Mt Bike Tr	Trail	00-01-31 The objective is to manage Lundbom/Tent Mtn. Biking Trail for a semi primitive non-motorized recreation experience. The trail and natural vegetation will be conserved. Opportunities for hiking, mountain biking, and equestrian uses are available. No motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of centre line of the trail.

Site or Trail Name	Type	Objectives
Mellin Lake	Trail	00-01-31 The objective is to manage the Mellin Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Norgaard Lake	Trail	00-01-31 The objective is to manage the Norgaard Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking, and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Rainbow Lake	Trail	00-01-31 The objective is to manage the Rainbow Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Roscoe Lake Trail	Trail	00-01-31 The objective is to manage the Roscoe Lake recreation trail for a semi-primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking, and equestrian uses are available, no motorized use permitted. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Two Island Lake	Trail	00-01-31 The objective is to manage the Two Island recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Walker Lake & Trail	Trail	00-01-31 The objective is to manage the Walker Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Wasley Lake	Trail	00-01-31 The objective is to manage the Wasley Lake recreation trail for a semi primitive non-motorized recreation experience. The trail will be maintained and adjacent vegetation conserved. Opportunities for hiking, mountain biking and equestrian uses are available, no motorized use permitted as per the Pennask LRUP. The total width of the recreation trail right-of-way shall be 2.5 meters on either side of the centre line of the trail.
Boot Lake	X	00-01-31 The objective is to manage the Boot Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at this site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Plateau Lake	X	00-01-31 The objective is to manage the Plateau Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site. Very rough road access to the site will be maintained for four-wheel drive vehicles.
Rey Lake	X	00-01-31 The objective is to manage Ray Lake for a roaded recreation experience. The lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access is by a very rough four-wheel drive road via the utility corridor.
Upper Boulder Lake		00-01-31 The objective is to manage Upper Boulder Lake for a semi primitive non-motorized recreation experience. The trail, lake shoreline and natural vegetation will be conserved. Opportunities for camping (no facilities on site), picnicking, boating, and swimming will be available. Access to the lake is by a non-motorized trail.

Appendix E: Cutting Permits and Road Permits in Effect (S. 14(3)(j) *FPPR*)

LICENCE	CUTTING PERMIT	BLOCK	ROAD PERMIT	GEOGRAPHIC LOCATION
A18039	394	1	RO7750	Lavigure Lake
A18039	394	2	RO7750	Lavigure Lake
A18039	394	3	RO7750	Lavigure Lake
A18039	394	4	RO7750	Lavigure Lake
A18039	394	5	RO7750	Lavigure Lake
A18039	394	6	RO7750	Lavigure Lake
A18039	394	7	RO7750	Lavigure Lake
A18695	369	1	RO7749	Spius Creek
A18695	369	3	RO7749	Maka Creek
A18695	369	4	RO7749	Spius Creek
A18695	369	5	RO7749	Spius Creek.
A18695	369	6	RO7749	Spius Creek
A18695	369	7	RO7749	Spius Creek
A18695	370	1	RO7749	Spius Creek
A18695	371	1	RO7749	Uztilus Creek
A18695	371	2	RO7749	Uztilus Creek
A18695	371	3	RO7749	Uztilus Creek
A18695	371	4	RO7749	Uztilus Creek
A18695	371	5	RO7749	Uztilus Creek
A18695	371	6	RO7749	Uztilus Creek
A18695	391	1	RO7749	Frogmore
A18695	391	2	RO7749	Frogmore
A18695	391	3	RO7749	Frogmore
A18695	391	4	RO7749	Frogmore
A18695	393	1	RO7749	Spius
A18695	393	2	RO7749	Spius
A18695	393	3	RO7749	Spius
A18695	393	4	RO7749	Spius
A18695	398	1	RO7749	Helmer Lake
A18695	398	3	RO7749	Quenville Creek
A18695	398	4	RO7749	Quenville Creek
A18695	601	1	RO7749	Abbott Lake
A84506	575	1	R19519	Antler Lake
A92671	346	1	RO7749	Swakum/Hector
A92671	346	2	RO7749	Swakum/Hector
A94983	FW3			Lavigure Lake
A94985	FW5			Lavigure Lake