

**BC Timber Sales
Kamloops Business Area
Kamloops and Clearwater Field Teams**



KAMLOOPS TSA FOREST STEWARDSHIP PLAN

Extended Plan Final Consolidated Version – December 20, 2011

TABLE OF CONTENTS

1. DEFINITIONS AND INTERPRETATION	1
1.1 DEFINITIONS	1
1.2 DEFINITIONS UNDER ENACTMENTS	1
2. SUBMISSION DATE, TERM AND COMMENCEMENT DATE OF THIS FSP	1
2.1 SUBMISSION DATE	1
2.2 TERM	1
2.3 COMMENCEMENT DATE	2
3. APPLICATION OF THIS FSP	2
4. FOREST DEVELOPMENT UNIT	2
4.1 ITEMS IDENTIFIED IN THE FDU	4
5. KAMLOOPS TSA RESULTS OR STRATEGIES	7
5.1 INCORPORATION OF LRMP OBJECTIVES INTO THE FSP	7
5.2 SOIL MANAGEMENT AND CONSERVATION OBJECTIVE	7
5.3 WATER OBJECTIVES	7
5.3.1 <i>Community Watersheds</i>	7
5.3.2 <i>General Water Resources</i>	8
5.4 RIPARIAN MANAGEMENT OBJECTIVES	9
5.4.1 <i>Lakeshore Management</i>	9
5.4.2 <i>General Riparian Management</i>	10
5.5 BIODIVERSITY OBJECTIVES	11
5.5.1 <i>General Biodiversity</i>	11
5.5.2 <i>Landscape Level Biodiversity</i>	12
5.5.3 <i>Stand Level Biodiversity</i>	13
5.6 RECREATION OBJECTIVES	14
5.6.1 <i>Recreation Sites and Trails</i>	14
5.6.2 <i>Walk-in Lakes</i>	15
5.6.3 <i>Recreation and Tourism Zones</i>	16
5.6.4 <i>Road and Trail Disturbances</i>	16
5.6.5 <i>Remote Recreation and Tourism Zones – Back-country Recreational Activity</i>	17
5.7 WILDLIFE OBJECTIVES	17
5.7.1 <i>Deer</i>	18
5.7.2 <i>Moose</i>	20
5.7.3 <i>Mountain Goat</i>	22
5.7.4 <i>Flammulated Owl</i>	23
5.7.5 <i>“Interior” Western Screech Owl</i>	24
5.7.6 <i>Lewis’s Woodpecker</i>	25
5.7.7 <i>Badger</i>	26
5.7.8 <i>Spotted Bat</i>	27
5.8 VISUAL OBJECTIVES	28
5.8.1 <i>Visually Sensitive Areas in the Headwaters Forest District (Kamloops TSA)</i>	28
5.8.2 <i>Visually Sensitive Areas in the Kamloops Forest District (Kamloops TSA)</i>	29
5.8.3 <i>Areas Outside Visually Sensitive Areas within the Kamloops TSA</i>	31
5.9 CULTURAL HERITAGE OBJECTIVES	31
5.9.1 <i>Cultural Heritage Resources</i>	31
5.9.2 <i>Archaeological Assessments</i>	33
5.10 SETTLEMENT AREA OBJECTIVES	34
5.11 RANGE	35
5.12 RANGE BARRIERS AND NOXIOUS WEED MEASURES	35
5.12.1 <i>Natural Range Barriers - Measures</i>	35
5.12.2 <i>Invasive Plants - Measures</i>	36
6. STOCKING STANDARDS	37

APPENDIX A – STOCKING STANDARDS TABLES.....	39
5.13 A-1 GENERAL DISCUSSION	39
5.14 A-2 STOCKING STANDARDS TABLES	41
5.15 A-3 PARTIAL CUTTING STOCKING STANDARDS	53
APPENDIX B – WALK-IN LAKES	61
APPENDIX C - FOREST STEWARDSHIP PLAN MAPS	62

LIST OF TABLES

Table 1. Forest Development Units for the BCTS Kamloops TSA Forest Stewardship Plan.	2
Table 2. FRPA Sec 196(1) Blocks	5
Table 3. FRPA Sec 196(2) Blocks	6
Table 4. Declared Areas	6
Table 5. Riparian Retention Strategies - Streams	10
Table 6. Riparian Retention Strategies - Wetlands	11
Table 7. Riparian Retention Strategies - Lakes	11
Table 8. Wildlife related objectives in the BCTS Kamloops TSA Forest Stewardship Plan.	18
Table 9. Percent height above brush by BEC Zone	39
Table 10. Stocking Standards for Even-aged Stands	41
Table 11. Uneven-aged Stocking Standards	50
Table 12. Mixed Wood and Broadleaf Stocking Standards	51
Table 13. Deviation from potential (DFP) volume by understory tree density and overstory basal area.....	55
Table 14. Proposed minimum partial-cutting stocking standards for site series with 700/1200 even-aged stocking standards, for Kamloops BCTS – Kamloops TSA.	57
Table 15. Proposed minimum partial-cutting stocking standards for site series with 500/1000 even-aged stocking standards, for the Kamloops BCTS – Kamloops TSA.	58
Table 16. Tree acceptability criteria for the proposed stocking assessment procedure	59
Table 17. Walk-in Lakes in the Kamloops TSA.	61
Table 18. Landscape Unit Based FDU Maps for the BCTS Kamloops TSA FSP.	62

LIST OF FIGURES

Figure 1. Forest Development Units for the BCTS Kamloops TSA Forest Stewardship Plan.....	3
Figure 2. Stocking zone, lower basal area limit, minimum stocking line, and isolines of average stand diameter for assessing partial cut stands in Kamloops BCTS – Kamloops TSA.....	53
Figure 3. Stocking decision flowchart.	56
Figure 4. Suggested post-harvest stand structure standards for beetle-proofed lodgepole pine stands in Kamloops BCTS – Kamloops TSA.	60

1. DEFINITIONS AND INTERPRETATION

1.1 Definitions

In this FSP:

- **“BCTS Agreement Holder”** means the holder of a Timber Sale Licence or Road Permit granted by the TSM to which this FSP applies;
- **“Commencement Date”** means the date the Term of this FSP begins;
- **“FDU”** means the 33 forest development units identified under this FSP;
- **“FPPR”** means the Forest Planning and Practices Regulation, consolidated to December 31, 2004 as amended from time to time;
- **“FRPA”** means the *Forest and Range Practices Act*, SBC 2002, c. 69, as amended from time to time;
- **“FSP”** means this Forest Stewardship Plan;
- **“Kamloops LRMP”** means the Kamloops Land and Resource Management Plan approved by the government in 1995 and as amended from time to time;
- **“Submission Date”** means the date specified in Paragraph 2.1;
- **“Term”** means the period specified in Paragraph 2.2;
- **“TSM”** means the Timber Sales Manager for the BC Timber Sales Kamloops Business Area;
- **“Wildlife Tree Patches”** means an area occupied by a group of trees with special characteristics that provide valuable habitat for the conservation and enhancement of wildlife.

1.2 Definitions under Enactments

Unless otherwise expressly indicated, or indicated by context, terms used in this FSP have the definition given them, as of the Submission Date, in *Forest and Range Practices Act* and associated regulations and the *Forest Act* and the regulations under them, as amended from time to time.

2. SUBMISSION DATE, TERM AND COMMENCEMENT DATE OF THIS FSP

2.1 Submission Date

The date of submission of this FSP is September 25, 2006.

2.2 Term

The Term of this Extended FSP is 5 years beginning on the Commencement Date (January 01, 2012).

2.3 Commencement Date

The Commencement Date for the Term of this FSP is the date specified by the minister in approving this FSP.

3. APPLICATION OF THIS FSP

Subject to exceptions under FRPA, this FSP applies to each of the following located within an identified FDU:

- (a) timber sale licenses advertised or entered into by the TSM on or after the commencement date,
- (b) road permits granted by the TSM on or after the commencement date.

4. FOREST DEVELOPMENT UNIT

A total of 33 FDUs have been identified in this FSP which incorporate the majority of the Kamloops Timber Supply Area (TSA) and are based on the preliminary landscape units boundaries with assigned biodiversity emphasis options as proposed by the Kamloops LRMP, with boundaries updated to the year 2000¹.

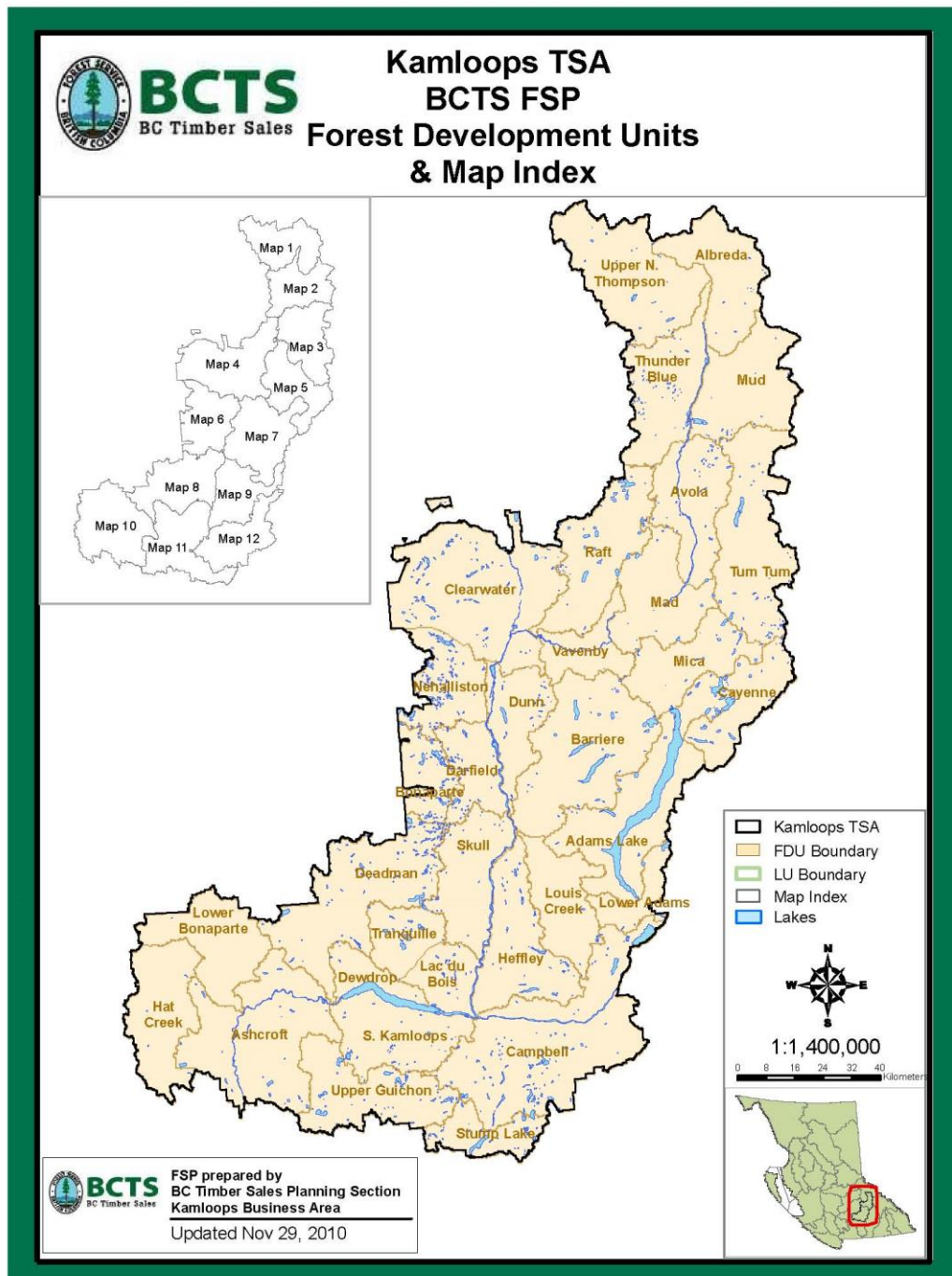
Table 1. Forest Development Units for the BCTS Kamloops TSA Forest Stewardship Plan.

FDU #	FDU Name	FDU #	FDU Name
1	HAT CREEK	18	CLEARWATER
2	LOWER BONAPARTE	19	VAVENBY
3	ASHCROFT	20	RAFT
4	DEADMAN	21	MAD
5	DEWDROP	22	MICA
6	UPPER GUICHON	23	CAYENNE
7	TRANQUILLE	24	TUM TUM
8	HEFFLEY	25	AVOLA
9	CAMPBELL	26	THUNDER BLUE
10	LOUIS CREEK	27	MUD
11	BARRIERE	28	ALBREDIA
12	ADAMS LAKE	29	UPPER N. THOMPSON
13	LOWER ADAMS	30	SOUTH KAMLOOPS
14	SKULL	31	STUMP LAKE
15	DARFIELD	32	LAC DU BOIS
16	BONAPARTE ²	33	DUNN
17	NEHALLISTON		

¹ Updated based on new height of land data available in the year 2000.

² Bonaparte FDU boundary increased slightly. Amendment #3 – April 23, 2008

Figure 1. Forest Development Units for the BCTS Kamloops TSA Forest Stewardship Plan.



4.1 Items Identified in the FDU

Forest Stewardship Plan Maps (APPENDIX C - FOREST STEWARDSHIP PLAN MAPS) identify locations of the following items that were in effect on the Submission Date as per section 14(2) and (3) of the FPPR Ungulate winter range areas, wildlife habitat areas³, fisheries sensitive watersheds⁴, lakeshore management zones⁵, scenic areas, L1 lakes, community watersheds, old growth management areas, and areas where commercial timber harvesting is prohibited by an enactment.

In addition, the areas within the FDU that are subject to a timber sale licence, or a road permit granted by the TSM are those TSLs and Road Permits that are in effect at the commencement date of this FSP.

FRPA 196 (1) and 196(2) cutblocks (no TSL issued) pertaining to this FSP are found in Table 2 and Table 3. All FDP approved roads providing access to these 196(1) and 196(2) blocks listed below are considered 196(1) and 196(2) roads, respectively.

³ There are no Wildlife Habitat Areas designated within the Kamloops TSA and so there are no WHAs displayed on the FSP Maps.

⁴ No Fisheries Sensitive Watersheds (FSWs) have been identified in the Kamloops TSA and so there are no FSWs displayed on the FSP Maps.

⁵ Lakeshore Management Zones have not been established and so the LMZs have not been displayed on the FSP maps.

Table 2. FRPA Sec 196(1) Blocks

TSL	Block	TSL	Block	TSL	Block
A33284	1	A75065 (re-sale of 60227)	1	A78992	BO6F1
A35204	1	A75065 (re-sale of 60227)	2	A79074	1
A43404	1	A75065 (re-sale of 60227)	3	A79075	1
A43469	1	A75065 (re-sale of 60227)	4	A79860	RO5XS
A43470	1	A77739	BA302	A79860	RO5XT
A43471	1	A77739	BA303	A79898	6K1
A43682	1	A77739	BA5XE	A79898	6K2
A47006	1	A77740	FA5VZ	A79898	6K3
A47007	1	A77740	FA5W0	A79898	6K4
A47008	1	A77740	FA5W1	A79898	6k5
A47011	1	A78090	KC60U	A79898	6k6
A47023	1	A78090	KC60V	A80419	64L
A47980	1	A78092	KC60S	A80419	64M
A48687	3	A78092	KC62R	A80420	64N
A48687	4	A78838	BO63R	A80420	64P
A48687	4	A78838	BO63S	A81425	1
A49108	1	A78881	KC63D	A81425	2
A56781	1	A78881	KC63N	N/A	MUD006
A56803	1	A78989	BO63V	A78737	BO642
A58384	1	A78990	BO63W	A78737	BO643
A58384	2	N/A	MUD003	A78737	BO644
A59696	1	N/A	MUD005	A78737	BO64R
N/A	MUD001	A78839	BO63T	A83338	1
N/A	MUD002	A78839	BO634	A66211	1
A81552	BO6EZ	A78990	BO63Y	A83658	1
A81552	BO6F1	A78991	BO63X	A83658	2
A59697	1	A78992	BO6DO	A87137	ALL
A73593	KC247	A78992	BO6EZ		

Table 3. FRPA Sec 196(2) Blocks

TSL	Block	TSL	Block	TSL	Block	TSL	Block	TSL	Block
A26202	1	A53655	2	A68518	1	A69412	1	A74386	3
A28822	1	A53684	1	A68518	2	A69413	1	A74387	1
A32474	1	A54103	1	A68518	3	A69414	1	A74387	2
A32476	1	A54107	1	A68518	4	A69415	1	A74388	1
A33275	1	A54583	A	A69075	1	A69416	1	A74388	2
A33275	2	A54583	B	A69076	1	A69443	1	A75063	2
A33275	3	A54583	C	A69076	2	A69444	1	A75064	1
A33276	1	A56795	1	A69076	3	A69445	1	A75065	1
A33284	1	A56802	1	A69365	1	A69447	1	A75065	2
A35236	1	A57031	1	A69367	A	A69448	1	A75065	3
A35242	1	A57031	2	A69367	B	A69449	1	A75065	4
A43634	1	A57841	1	A69368	1	A69450	1	A75449	1
A43635	1	A58268	1	A69369	1	A69451	1	A79073	1
A43636	1	A58269	1	A69370	1	A69452	1	A79861	RO6GT
A43637	1	A58270	1	A69371	1	A69453	1	A80034	RO5XY
A45487	A	A60230	1	A69372	1	A69454	1	A81592	TF1
A45487	B	A60230	2	A69373	1	A69455	1		
A45488	A	A60230	3	A69374	1	A69456	1		
A45488	B	A60231	1	A69375	1	A69457	1		
A45488	C	A60231	2	A69376	1	A69458	1		
A45489	A	A60233	1	A69387	1	A69459	1		
A45489	B	A60233	2	A69388	1	A69460	1		
A45489	C	A60235	1	A69389	1	A69461	1		
A45490	A	A60716	FA25S	A69390	1	A69462	1		
A45490	B	A60717	FA25T	A69391	1	A69463	1		
A45490	C	A60718	FA25U	A69392	1	A69465	1		
A45490	D	A60720	FA25W	A69393	1	A69471	1		
A45490	E	A60949	1	A69394	1	A69472	1		
A45490	F	A60950	1	A69395	1	A69473	1		
A47012	1	A61028	1	A69396	1	A69474	1		
A47017	1	A61548	ALL	A69397	1	A69475	1		
A47018	1	A63854	1	A69398	1	A69476	1		
A47977	1	A66451	1	A69399	1	A69477	1		
A47979	1	A66451	2	A69401	1	A69478	1		
A48005	1	A66451	3	A69402	1	A69479	1		
A49106	1	A66451	4	A69403	1	A69480	1		
A49107	1	A66452	1	A69404	1	A69495	1		
A50906	1	A66453	1	A69405	1	A69732	1		
A50906	2	A66453	2	A69406	1	A69732	2		
A50906	3	A66453	3	A69407	1	A69732	3		
A50906	4	A66454	1	A69408	1	A70127	1		
A50906	5	A66463	1	A69409	1	A72338	1		
A51370	1	A66463	2	A69410	1	A74386	1		
A53655	1	A66463	3	A69411	1	A74386	2		

Table 4. Declared Areas

TSL	Block
A60232	1
A60232	2
A60232	3
A60234	1
A60234	2
A60234	5
A60234	7

5. KAMLOOPS TSA RESULTS OR STRATEGIES

5.1 Incorporation of LRMP Objectives into the FSP

On January 23, 2006 the Minister of Agriculture and Lands signed the Order amending the "original order" dated January 23, 1996 which declared the Kamloops Land and Resource Management Plan (KLRMP) to be a Higher Level Plan (HLP). The purpose of the order is to facilitate implementation of the KLRMP in the context of the *Forest and Range Practices Act* and Forest Stewardship Plan content requirement. The order clarifies which provisions regarding zones, objectives and strategies from the KLRMP constitute the HLP objective and establish the area, or (Special) Resource Management Zone, to where the objective applies. Twenty six objectives were outlined by the HLPO. All HLPO Objectives that apply to the FDUs have been addressed or considered:

5.2 Soil Management and Conservation Objective

#	Objective	Source
FRPA S.149	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.	FPPR Sec 5
Applicable Area		
All FDUs.		
Result or Strategy		
<u>Approach to Harvesting and Roads</u>		
If the TSM carries out or authorizes primary forest activities, the activities will conform with Sections 35 and 36 of the FPPR.		

5.3 Water Objectives

5.3.1 Community Watersheds

#	Objective	Source
FRPA S.149	<p>The objective set by government for water being diverted for human consumption through a licensed waterworks in a community watershed is to, without unduly reducing the supply of timber from British Columbia's forests, 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 	FPPR Sec 8.2

	treatment required under (i) an enactment, or (ii) the licence pertaining to the waterworks.	
<p>Applicable Area</p> <p>Within designated Community Watershed areas: Kamloops Forest District Community Watersheds: Cornwall, Currie, Tranquille, Leonie, Nelson, Paul, Paul Lake, Peterson, Rosen, Skowootum, Toops, and Jimmies. Headwaters Forest District (Kamloops TSA Portion) Community Watersheds: Avola, Hascheak, Mcdougall, Russell Community Watersheds.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In Paragraph 1.2:</p> <p>(a) “Community Watershed Objective” means the objectives set by government for water in community watersheds as described in Section 8.2 of the Forest Planning and Practices Regulation (January 31, 2004);</p> <p>(b) “Designated Community Watersheds” means the Cornwall, Currie, Tranquille, Leonie, Nelson, Paul, Paul Lake, Peterson, Rosen, Skowootum, Toops, and Jimmies community watersheds in the Kamloops Forest District and the Avola, Hascheak, Mcdougall, and Russell community watersheds in the Kamloops Timber Supply Area portion of the Headwaters Forest District.</p> <p><u>Approach to Harvesting and Roads</u></p> <p>1.2 If the TSM carries out or authorizes primary forest activities within Designated Community Watersheds, the TSM will:</p> <p>(a) ensure that the timber harvesting and road construction is consistent with the Community Watershed Objective by conforming with the requirements for watersheds stated in Sections 59 to 63 of the FPPR (January 31, 2004);</p> <p>(b) maintain a library of pertinent watershed assessments;</p> <p>(c) complete assessments in the manner recommended by a qualified professional;</p> <p>(d) ensure that primary forest activities are planned and conducted in a manner that is consistent with the assessment recommendations.</p>		

5.3.2 General Water Resources

#	Objective	Source
LRMP Sec 2.1.2	Ensure implementation of a referral process to notify all potentially impacted water licensees when development is proposed.	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>All FDUs.</p>		

Result or StrategyApproach to Harvesting and Roads

Within each FDU, if the TSM carries out or authorizes primary forest activities, the TSM will :

- (a) contact water licensees to solicit input during the preparation of site plans if it is determined that the water license holder may be impacted by primary forest activities;
- (b) notify water licensees when road construction or timber harvesting is to occur within a 100m radius of a water license where the water is diverted for human consumption.

5.4 Riparian Management Objectives**5.4.1 Lakeshore Management**

#	Objective	Source
LRMP Sec 2.1.2.1	Manage riparian areas, including streams, wetlands and lakes in accordance with the Forest Planning and Practices Regulation and the Kamloops and Clearwater District Lakeshore Management Guidelines, or other applicable management tools or agency agreements.	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDUs.		
Result or Strategy <u>Definitions</u> 1.1 In Paragraph 1.2, “ Lakes LRUPs ” means the <i>Clearwater Forest District Lakes Local Resource Use Plan – Lakeshore Management Guidelines</i> dated August 1, 2001 and the <i>Kamloops Forest District Lakes Local Resource Use Plan – Lakeshore Management Guidelines</i> dated December 20, 2001. <u>Approach to Harvesting and Roads</u> 1.2 If the TSM carries out or authorizes primary forest activities within the ±190 m lakeshore management zone around classified lakes, the TSM will: <ul style="list-style-type: none"> (a) ensure that, exclusive of the need for referrals, consultation and the submission of variance approvals, the timber harvesting and road construction is consistent with the intent of the harvesting guidelines found within the Lakes LRUPs; (b) ensure that rational for variances permitted within the Lakes LRUPs will be developed and documented by a Qualified Registered Professional. 		

5.4.2 General Riparian Management

#	Objective	Source
FRPA S.149	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.	FPPR Sec 8
Applicable Area All FDUs.		
Result or Strategy <u>Approach to Harvesting and Roads</u> Within each FDU, if the TSM carries out or authorizes primary forest activities, the TSM will ensure that the primary forest activities complies with: <ul style="list-style-type: none"> (a) Sections 47 to 51, 52(2) and 53 of the FPPR as those provisions were on the Date of Submission, and (b) the retention strategies in a Riparian Management Zone for streams, wetlands and lakes as outlined in Table 5, Table 6, and (c) Table 7 below; 		

Table 5. Riparian Retention Strategies - Streams

Streams				% Basal Area Retention – Streams General Objectives**	
Riparian Class	Width (m)	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Riparian Management Zone	
				Low Windthrow Risk	Mod/High Windthrow Risk
S1	>20	50	20	≥ 25	0-50
S2	>5<20	30	20	≥ 25	0-50
S3	>1.5<5	20	20	≥ 25	0-50
S4	<1.5	0	30	≥ 25	0-50
S5	>3	0	30	0-30	0-30
S6	<3	0	20	0-20	0-20
** These are General Objectives for % Basal Area Retention. Site specific factors may require additional retention to meet the objective of ensuring the viability of the RRZ. Site specific factors include water quality and fish habitat protection, level of shading required, sediment filtering, stream bank integrity, etc.					

Table 6. Riparian Retention Strategies - Wetlands

Wetlands				% Basal Area Retention – Wetlands**
Riparian Class*	Area (ha)	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Riparian Management Zone
W1	≥5	10	40	0-30
W2	≥1 & <5 ***	10	20	0-30
W3	≥1 & <5 +	10	20	0-30
W4	≥0.25 & <1 **	0	30	10-50
W5	Complex Wetlands*	10	40	10-50

*Refer to definition of wetland classifications found in FPPR Section 48.
 ** These are General Objectives for % Basal Area Retention. Site specific factors will be considered when defining retention to meet the objective of ensuring the viability of the RRZ. Site specific factors include water quality and fish habitat protection, level of shading required, sediment filtering, stream bank integrity, etc.
 *** Wetlands of this size within the following ecosystems: PP, IDFxh, xw, xm, and BG.
 + Wetlands of this size, outside of the following ecosystems: PP, IDFxh, xw, xm, and BG.
 ** Wetlands of this size within the following ecosystems: PP, IDFxh, xw, xm, and BG.

Table 7. Riparian Retention Strategies - Lakes

Lakes			% Basal Area Retention – Lakes***
Lake Class *	Riparian Reserve Zone Width (m)	Riparian Management Zone Width (m)	Riparian Mgmt Zone
A	0	0	N/A
B	10	0	N/A
C	10	20	≥10 ⁺
D	0	30	≥10
E	0	30	≥10

*Refer to definition of lakes classifications found in the **Lakes LRUPs**.
 *** These are General Objectives for % Basal Area Retention. Site specific factors will be considered when defining retention to meet the objective of ensuring the viability of the RRZ. Site specific factors include water quality and fish habitat protection, level of shading required, sediment filtering, stream bank integrity, etc.
 +The ≥10% BA retention represents compliance to FPPR Sec 52 and the reference to BA retention for small tenures

5.5 Biodiversity Objectives

5.5.1 General Biodiversity

#	Objective	Source
LRMP Sec 2.1.3.1	To conserve the diversity and abundance of native species and their habitats throughout the Kamloops LRMP	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDUs.		

Result or StrategyApproach to Harvesting and Roads

The results or strategies in the following sections of this FSP are the results or strategies for this objective:

- Section 5.5.2 - Landscape Level Biodiversity
- Section 5.5.3 – Wildlife Tree Retention
- Section 5.5.2 - Old Growth Management Areas
- Section 5.4 - Riparian Management
- Section 5.7 - Wildlife and Species at Risk

5.5.2 Landscape Level Biodiversity

#	Objective	Source
FRPA S.149	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.	FPPR Section 9
Applicable Area All FDUs.		
Result or Strategy <u>Approach to Harvesting and Roads</u> When the TSM carries out or authorizes primary forest activities, the TSM will ensure that the activities are designed and carried out in a manner that is consistent with the requirements of Sections 64 and 65 of the FPPR.		

#	Objective	Source
Ministerial Order under the Land Act	<ol style="list-style-type: none"> 1. Conserve biodiversity by retaining old forest values and attributes, or rare features within the OGMAs across the landscape units over time. 2. Maintain all timber within OGMAs except as required to accommodate the following purposes: <ol style="list-style-type: none"> (a) to prevent the spread of insect infestation or disease that pose a significant threat to forested areas external to the OGMA; (b) to address safety hazards associated with primary forest activities; (c) to provide for guyline clearance and tailhold anchors; (d) to address fuel management concerns and related safety hazards; 	Old Growth Management Objectives for the Kamloops Land and Resource Management Plan Area, dated March 5, 2013

	<ul style="list-style-type: none"> (e) to provide road access where no alternative practicable option for road location exists; or (f) to facilitate timber harvesting that will result in operationally practicable cutblock boundaries. <p>3. Primary forest activities conducted for the purposes under section 2 must:</p> <ul style="list-style-type: none"> (a) be conducted to the minimum extent necessary to accommodate the purpose; and (b) not exceed the lesser of two hectares or 10% of an individual OGMA polygon per 20 year time period. 	
<p>Applicable Area</p> <p>All FDUs</p>		
<p>Results or Strategies</p> <p><u>Approach to Harvesting and Roads</u></p> <p>When the TSM carries out or authorizes primary forest activities, the TSM will ensure that the activities are designed and carried out in a manner that is consistent with objectives 2. and 3. in the March 5, 2013 Land Act Order establishing old growth management objectives for the Kamloops Land and Resource Management Plan area.</p>		

5.5.3 Stand Level Biodiversity

#	Objective	Source
FRPA S.149	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.	FPPR Sec 9.1
<p>Applicable Area</p> <p>All FDUs.</p>		
<p>Result or Strategy</p> <p>Definitions</p> <p>1.1 In Paragraphs 1.2 to 1.4, "Mature Forest" means:</p> <ul style="list-style-type: none"> (a) for pine leading stands, trees that are greater than or equal to 80 years of age, (b) for deciduous leading stands, trees that greater than or equal to 60 years of age, and; (c) for coniferous leading stands, other than pine, trees that are greater than or equal to 100 years of age. 		

Approach to Harvesting and Roads

- 1.2 When the TSM carries out or authorizes primary forest activities, the TSM will ensure that the activity is designed and carried out in a manner that conforms to the following:
- (a) at least 80% of the cutblocks greater than 5 hectares with harvesting completed during the 12 month period beginning on April 1 of any calendar year will have one or more Wildlife Tree Retention Areas associated with the cutblock, and;
 - (b) for all cutblocks, the distance from a Wildlife Tree Retention Area or area of **Mature Forest** to another Wildlife Tree Retention Area or area of **Mature Forest** will not exceed 500 metres.
- 1.3 The TSM will not carry out or authorize timber harvesting within a Wildlife Tree Retention Area unless:
- (a) the trees on the Net Area to be Reforested of the cutblock to which the Wildlife Tree Retention Area relates have developed attributes that are consistent with a **Mature Forest**,
 - (b) access to future harvest is severely limited by the Wildlife Tree Retention Area,
 - (c) the removal of one or more trees is necessary to ensure public safety; or
 - (d) the post-harvest stand within the Wildlife Tree Retention Area will continue to have the ability to provide suitable wildlife tree habitat;
 - (e) a qualified registered professional has determined that ecological value of the Wildlife Tree Retention Area has been lost due to windfall, blowdown or another disturbance, or
 - (f) the condition of the stand within the Wildlife Tree Retention Area represents a significant forest health risks to surrounding stands and
- 1.4 If the TSM carries out or authorize timber harvesting within a Wildlife Tree Retention Area for the reasons outlined in Section 1.3 e and f, then the harvested Wildlife Tree Retention Area will be replaced with an equivalent or other suitable Wildlife Tree Retention Area.

5.6 Recreation Objectives**5.6.1 Recreation Sites and Trails**

#	Objective	Source
Grandparented designations	Manage known recreation sites and trails in accordance with established objectives	FRPA Sec 180
Applicable Area		
Established recreation sites and trails in the Headwaters Forest District portion of the FDU.		
Note		

Although Recreation Sites and Trails have been legally established in the Kamloops Forest District, no formal objectives (as required by FRPA Sec 181) were established and therefore no Result or Strategy is required in this FSP.

Result or Strategy

- 1.1 When the TSM carries out or authorizes primary forest activities in areas adjacent to a recreation site or trail with established objectives, the TSM will ensure that the activity is designed and carried out in a manner that is consistent with the established objectives.
- 1.2 When the TSM carries out or authorizes primary forest activities in areas within 100m of a designated Recreation Sites and Trails with established objectives, the TSM will ensure that the activity is designed and carried out in a manner that is consistent with the following guidelines:
- (a) Utilize a silviculture system of partial cutting, when stand damage from forest health factors is at least 10% of the stems per hectare;
 - (b) Consider the use of a silviculture system of clear cutting, when stand damage from forest health factors is greater than 40% of the stems per hectare; or
 - (c) Utilize temporary access construction, or permanent access construction with access control implemented post-construction.
 - (d) Repair or mitigate physical damage to the recreation site or trail caused by road construction or harvest activities.
- 1.3 When the TSM retains maintenance responsibility for a Forest Service Road that is the only access to an established Recreation Site or Trail, the TSM will ensure that summer access is not restricted except for temporary closures to repair or replace roads and stream crossings.

5.6.2 Walk-in Lakes

#	Objective	Source
LRMP Sec 2.1.5	Maintain a mosaic of angling opportunities within the recreational spectrum (i.e. walk-in lakes, drive to lakes, trophy lakes)	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>All FDUs.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In paragraph 1.2</p> <p>(a) “Walk-in Lakes” means a lake identified as a Walk-in Lake as outlined in APPENDIX B – WALK-IN LAKES.</p>		

- (b) “**Lakes LRUPs**” means the Kamloops Forest District *Lakes Local Resource Use Plan – Lakeshore Management Guidelines* dated December 20, 2001 and the Clearwater Forest District Lakes Local Resource Use Plan dated August 1, 2001.

Approach to Harvesting and Roads

- 1.2 Subject to Section 1.3, before the TSM carries out or authorizes primary forest activities in areas adjacent to **Walk-in Lakes**, the TSM will ensure that the activity is designed and carried out in a manner that is consistent with the access management recommendations of the **Lakes LRUPs**.
- 1.3 The TSM will not authorize or carry out permanent road construction within a zone around a **Walk-in Lake** that is subject to an order under Section 58(1) unless no other practicable option exists to provide road access for timber harvesting within the drainage system associated with the lake.
- 1.4 Strategies outlined in Section 5.6.1 (Recreation Sites and Trails) Section 1.2 (a) through (d) are strategies that apply to identified **Walk-in Lakes** under this objective.

5.6.3 Recreation and Tourism Zones

#	Objective	Source
LRMP Sec 2.6.1	Maintain viewscales in Recreation and tourism areas to a standard that does not detract from the recreational enjoyment of users.	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>All Special Resource Management – Recreation and Tourism Zones as identified in Figure 11 of the Kamloops LRMP, that fall within the FDU – Zones include Alan Creek, Bischoff, Blustery, Bone, Clemina, Lac Le Jeune, North Thompson Glacier, Smoke, Taweel, Thompson Rivers, Tod Mountain and Tod Mountain (controlled area)</p>		
<p>Result or Strategy</p> <p><u>Approach to Harvesting and Roads</u></p> <p>The results or strategies in following sections of this FSP are the results or strategies for this objective:</p> <ul style="list-style-type: none"> Section 5.8 – Visual Objectives. 		

5.6.4 Road and Trail Disturbances

#	Objective	Source
LRMP Sec 2.6.1	Road and trail construction, maintenance and deactivation and other surface disturbances and construction will be undertaken in a manner that meets	Kamloops LRMP HLP Order dated January 23,

	the management objectives of each recreation and tourism zone, in accordance with direction from an approved plan, local process or enhanced referral.	2006
<p>Applicable Area</p> <p>All Special Resource Management – Recreation and Tourism Zones as identified in Figure 11 of the Kamloops LRMP, that fall within the FDU – Zones include Alan Creek, Bischoff, Blustery, Bone, Clemina, Lac Le Jeune, North Thompson Glacier, Smoke, Taweel, Thompson Rivers, Tod Mountain and Tod Mountain (controlled area)</p>		
<p>Result or Strategy</p> <p><u>Approach to Harvesting and Roads</u></p> <p>When the TSM carries out or authorizes timber harvesting or road construction, the TSM will ensure that the activity is designed and carried out in a manner that is consistent with existing direction from an approved plan, local process or enhanced referral.</p>		

5.6.5 Remote Recreation and Tourism Zones – Back-country Recreational Activity

#	Objective	Source
LRMP Sec 2.6.1.4	Extractive uses are permitted providing they are consistent with the objectives of the RMZ.	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>R4 – Bone and R7 – North Thompson Glacier Special Resource Management – Recreation and Tourism Zones.</p>		
<p>Result or Strategy</p> <p><u>Approach to Harvesting and Roads</u></p> <p>When the TSM carries out or authorizes primary forest activities in areas where there are currently no roads and little evidence of human activity, the TSM will ensure that access is designed to minimize the impact to the long-term objectives of maintaining a predominantly primitive condition.</p>		

5.7 Wildlife Objectives

The following section outlines general wildlife objectives as well as species and area specific objectives from both FRPA – General Objective in FPPR and related Section 7(2) Notices and the Kamloops LRMP HLP Objectives. Table 8 details the wildlife species considered in this FSP.

Table 8. Wildlife related objectives in the BCTS Kamloops TSA Forest Stewardship Plan.

Species	FRPA	Kamloops LRMP	Applicable Area for Results and Strategies
Mule Deer	No "Section 7 Notice" exists for mule deer. No WHAs designated.	Kamloops LRMP Section 2.1.12.1 – Higher Level Plan Order (January 08, 2009)	Critical Deer Winter Range as outlined in Map 1, Kamloops LRMP.
Moose	No "Section 7 Notice" exists for moose. No WHAs designated.	Kamloops LRMP Section 2.1.12.2 – Higher Level Plan Order (January 08, 2009)	Critical Moose Winter Range as outlined in Map 1, Kamloops LRMP
Mountain Goat	Notice under FRPA Sec 7(2)	N/A	A maximum of 25,998 ha within Kamloops TSA.
Flammulated Owl	No "Section 7 Notice" exists for Flammulated Owl.	Background Information for Wildlife Habitat for Species at Risk	Kamloops LRMP Figure 3, General Resource Management Zone
"Interior" Western Screech Owl	No "Section 7 Notice" exists for "Interior" Western Screech Owl.	Background Information for Wildlife Habitat for Species at Risk	Kamloops LRMP Figure 3, General Resource Management Zone
Lewis's Woodpecker	No "Section 7 Notice" exists for Lewis's Woodpecker.	Background Information for Wildlife Habitat for Species at Risk	Kamloops LRMP Figure 3, General Resource Management Zone
Badger	No "Section 7 Notice" exists for Badger.	Background Information for Wildlife Habitat for Species at Risk	Kamloops LRMP Figure 3, General Resource Management Zone
Spotted Bat	No "Section 7 Notice" exists for Spotted Bat. No WHAs designated.	Background Information for Wildlife Habitat for Species at Risk	Kamloops LRMP Figure 3, General Resource Management Zone

5.7.1 Deer

The following objectives and associated results or strategies pertain to the Critical Deer Winter Range areas as outlined in the Kamloops LRMP.

#	Objective	Source
LRMP Section 2.1.12.1	Maintain or enhance forage production and habitat requirements in critical deer winter range	Kamloops LRMP HLP Order dated January 8, 2009
LRMP Section 2.1.12.1	Disperse the timber harvest throughout the winter range and spread it out evenly over the rotation	Kamloops LRMP HLP Order dated January 8, 2009
LRMP Section 2.1.12.1	Maintain at least 25% of forested area in the thermal cover. Link thermal cover units together with suitable	Kamloops LRMP HLP Order dated

	travel corridors, especially mature Douglas fir vets on ridges	January 8, 2009
LRMP Section 2.5.2	Skull Wildlife Habitat – Maintain or enhance forage production and habitat requirements in critical deer winter range	Kamloops LRMP HLP Order dated January 8, 2009
<p>Applicable Area</p> <p>Critical Deer Winter Range (Kamloops HLP Ministerial Order January 8, 2009) and the Skull Wildlife Habitat Management Area (January 8, 2009). These areas are found within the following FDU: Raft, Mad, Vavenby, Nehalliston, Barrier, Adams Lake, Dunn, Darfield, Skull, Deadman, Louis Creek, Heffley, Lower Adams, Lower Bonaparte, Tranquille, Hat Creek, Lac du Bois, Dewdrop, Ashcroft, S. Kamloops, Campbell, and Stump Lake.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In Paragraphs 1.2 and 1.3:</p> <p>(a) “Critical Deer Winter Range” means an area that:</p> <ul style="list-style-type: none"> (i) is Crown land; (ii) is identified as Critical Deer Winter Range in Kamloops HLP Ministerial order dated January 8, 2009); or (iii) is within the Skull Wildlife Habitat Management Area. <p>(b) “Established Cutblock” means a cutblock that, before the earlier of the date a cutblock or road is included within a TSL or Road Permit to which this FSP applies, or is included within a declared area under this FSP, has been:</p> <ul style="list-style-type: none"> (i)harvested under a TSL to which this FSP applies; (ii)included within a issued or awarded TSL to which this FSP applies; or (iv) Identified in an inventory (RESULTS layer) or notice provided by Government as an area: <ul style="list-style-type: none"> (A) harvested under a license to which this FSP does not apply; (B) included in a current cutting permit or timber sale issued under a license to which this FSP does not apply. <p>(c) “Thermal Cover Unit” means area in a FDU and Critical Deer Winter Range that is:</p> <ul style="list-style-type: none"> (i) Suitable Snow Intercept Cover and is not in an Established Cutblock; (ii) Suitable Snow Intercept Cover and is in an Established Cutblock; (iii) In an established cutblock that is planned to be harvested in a manner that will provide Suitable Snow Intercept Cover on harvest completion. <p>(d) “Suitable Snow Interception Cover” means:</p> <ul style="list-style-type: none"> (i) a forest cover polygon that: <ul style="list-style-type: none"> A. is greater than 0.25 hectares in size; 		

- B. is conifer leading; and
- C. has a crown closure class of:
 - I. 2 or greater in the BG, PP, or IDFxh biogeoclimatic zones;
 - II. 5 or greater in the ESSF and ICH biogeoclimatic zones;
 - III. 4 or greater in all other biogeoclimatic zones;
- (ii) an area harvested under a single-tree or group selection system; or
- (iii) a forested area that contains the attributes and size characteristics specified in Clause (i).

Approach to Harvesting and Roads

- 1.2 Where the TSM carries out or authorizes primary forest activities in an area within Critical Deer Winter Range, the TSM will ensure that:
- (a) subject to strategy 5.12.2, as of the regeneration date of a harvested cutblock to which the FSP applies, permanent road right of ways associated with the cutblock will be seeded with a suitable grass seed mix;
 - (b) to the extent practicable the timber harvesting is dispersed throughout the deer winter range and is spread out evenly over the rotation,
 - (c) the TSM will not cause less than 25% of the forested area in each **Thermal Cover Unit** to be retained as **Suitable Snow Interception Cover**,
 - (d) to the extent practicable **Thermal Cover Units** will be linked together with suitable travel corridors,
 - (e) uneven aged management is practiced when species composition, stand condition/structure and site conditions are suitable, and
 - (f) mixed species reforestation and management are implemented where it is ecologically suitable.
- 1.3 Paragraph 1.2 does not apply to the extent it is not practicable to retain Suitable Snow Interception Cover where timber harvesting is being carried out on a cutblock:
- (a) to recover timber damaged by fire, insect infestation, wind or other similar events;
 - (b) to facilitate treatments required to address root disease;
 - (c) by employing a cable harvest system; or
 - (d) for safety reasons.

5.7.2 Moose

The following objectives and associated results or strategies pertain to the Moose Winter Range areas as identified in the Kamloops LRMP (1995).

#	Objective	Source
LRMP Sec. 2.1.12.2	Critical Moose Winter Range – Maintain thermal and visual cover for moose, and enhance browse production.	Kamloops LRMP HLP Order dated January 8, 2009
LRMP Sec. 2.1.12.2	Critical Moose Winter Range – Maintain suitable forest cover attributes with respect to thermal cover and forage production.	Kamloops LRMP HLP Order dated January 8, 2009
LRMP Sec. 2.5.1	The overall objective of special resource management zones for habitat and wildlife management areas is to: maintain or enhance identified wildlife habitat areas.	Kamloops LRMP HLP Order dated January 8, 2009
LRMP Sec. 2.5.2	Skwilatin Wildlife Habitat – Maintain or enhance forage production and habitat requirements in critical moose winter range	Kamloops LRMP HLP Order dated January 8, 2009

Applicable Area

Critical Moose Winter Range (January 8, 2009) and the Skwilatin Habitat RMZ (January 8, 2009) areas that are found within the following FDU: Upper N. Thompson, Albreda, Thunder Blue, Mud, Tum Tum, Avola, Raft, Mad, Clearwater, Vavenby, Mica, Nehalliston, Cayenne, Barrier, Adams Lake, Dunn, Darfield, Bonaparte, Skull, Deadman, Louis Creek, Heffley, Tranquille, Lac du Bois, S. Kamloops, Campbell, Upper Guichon, and Stump Lake.

Result or Strategy

Definitions

1.1 In Paragraph 1.2:

- (a) **“Extended Use Roads”** means newly constructed roads that are planned for more than 2 years of use for forestry activities;
- (b) **“Moose Forage”** means palatable species of plants that are a food source for Moose. These plants include *Salix* spp., red-osier dogwood and *Betula* spp.;
- (c) **“Moose Habitat”** means wetlands in **Moose Winter Range** that are either 200 metres in length or greater than one hectare in size and that contain habitat features required by Moose as defined by a qualified registered professional;
- (d) **“Moose Winter Range”** means areas identified in Figure 4 of the Kamloops Land and Resource Management Plan (July 1995) as critical moose winter range;
- (e) **“Moose Management Units”** means 200 metre buffers around **Moose Habitat**;
- (f) **“Visual Screening”** means vegetation and/or topography providing visual obstruction that makes it difficult to see into adjacent areas from the roadbed.

Approach to Harvesting and Roads

1.2 If the TSM carries out or authorizes primary forest activities within an area in the FDU that is in **Moose Winter Range**, the TSM will:

- (a) pursue mixed forest management with similar species distribution to natural stands (including deciduous) (LRMP 2.1.12.2),

- (b) within each **Moose Management Unit**, retain at least 67% of the forested area equal to or greater than 20 years of age,
- (c) where present, retain **Visual Screening** along those **Extended Use Roads** that are located within 100 meters of a **Moose Management Unit**, and
- (d) retain **Moose Forage** during silviculture activities (including brushing, weeding and stand tending) unless retaining **Moose Forage** impedes the ability of a stand to reach free growing status.

5.7.3 Mountain Goat

#	Objective	Source
FRPA 7	FPPR section 7(2) states: "A person required to prepare a forest stewardship plan must specify a result or strategy in respect of the objective stated under subsection (1) only if the Minister of Water, Land and Air Protection, or a designated official, notifies the person of the applicable (a) species referred to in subsection (1), and (b) indicators of the amount, distribution and attributes of wildlife habitat described in subsection (1)."	FPPR Section 7
<p>Applicable Area</p> <p>Mountain Goat Winter Range areas that are found within the following FDU: Upper N. Thompson, Albreda, Thunder Blue, Mud, Tum Tum, Avola, Cayenne, Barrier, and Dunn.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In Paragraphs 1.2 and 1.3:</p> <ul style="list-style-type: none"> (a) "Early Seral" means less than 40 years of age; (b) "Escape Terrain" means rock outcrops or cliffs with slopes $>30^{\circ}$ and $<60^{\circ}$; (c) "Existing Reserves" means Old Growth Management Areas, Wildlife Tree Patches or other reserves established to protect additional resource values; (d) "Inoperable Areas" means those areas identified spatially by forest cover data as being not operationally feasible. Examples of Inoperable Areas include low productivity sites and steep inaccessible terrain; (e) "Mountain Goat Winter Range" means areas identified in the Kamloops Timber Supply Area by Ministry of Environment and provided as spatial data to support the Ungulate Winter Range Notice; (f) "Snow Interception Cover" means mature coniferous forest with preference given to Douglas-fir (<i>Pseudotsuga menziesii</i>) leading stands equal to or greater than 12m in height with a crown closure class equal to or greater than 7. Snow interception cover is assumed to also provide adequate security cover and thermal cover; 		

(g) **“Total Habitat Required”** means a maximum of 25,998 ha of habitat with no timber supply impacts as specified in the **Ungulate Winter Range Notice** for this species;

(h) **“Ungulate Winter Range Notice”** means the notice for the Kamloops Timber Supply Area dated December 30, 2004 and issued to the Holder of this FSP by the Date of Submission pursuant to section 7(2) of the FPPR.

Approach to Harvesting and Roads

1.2 Subject to Paragraph 1.3, within an area in the FDU that is subject to the **Ungulate Winter Range Notice**, if the TSM carries out or authorizes primary forest activities, the TSM will comply with the objectives set by government for the winter survival of ungulates as described in the **Ungulate Winter Range Notice**. Specifically:

- (a) within 200 metres of **Escape Terrain**, the TSM will only carry out or authorize primary forest activities if the TSM can utilize **Existing Reserves** and **Inoperable Areas** to retain less than or equal to 33% of the forested area in **Early Seral** and retain equal to or greater than 50% basal area of **Snow Interception Cover**; and
- (b) in areas currently occupied by Mountain Goats for winter use within **Mountain Goat Winter Range**, the TSM will refer to the **Ungulate Winter Range Notice** and/or other pertinent information for guidance during the development of strategies to conserve sufficient habitat for this species.

Amount of Area Affected

1.3 The amount of area subject to Paragraph 1.2 is the **Total Habitat Required** with no impact to the timber supply.

5.7.4 Flammulated Owl

#	Objective	Source
LRMP 2.1.12	Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue- listed species, as defined by BC Environment, and species designated as regionally important (e.g. Mule Deer)	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDUs		
Result or Strategy <u>Definitions</u> 1.1 In Paragraphs 1.2 and 1.3: <ul style="list-style-type: none"> (a) “Flammulated Owl Known Locations” means areas where Flammulated Owls have been identified in the Kamloops TSA from spatial data from the Land and Resource Data Warehouse; (b) “Total Habitat Required” means 3,300 ha of habitat specified in the Species at 		

Risk Background Information Document.Approach to Harvesting and Roads

- 1.2 Subject to Paragraph 1.3, the TSM will only carry out or authorize primary forest activities in an area occupied by Flammulated Owl if the TSM ensures that the design of the area:
- (a) refers to the Flammulated Owl *Accounts and Measures for Managing Identified Wildlife* (Identified Wildlife Management Strategy Version 2004) and/or other pertinent information for guidance during the development of strategies to conserve sufficient habitat in that area; and
 - (b) considers **Flammulated Owl Known Locations** when establishing **Wildlife Tree Patches**;

Amount of Area Affected

- 1.3 The amount of area subject to Paragraph 1.2 is the **Total Habitat Required** consistent with the policy direction on timber supply impacts.

5.7.5 “Interior” Western Screech Owl

#	Objective	Source
LRMP 2.1.12	Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue- listed species, as defined by BC Environment, and species designated as regionally important (e.g. Mule Deer)	Kamloops LRMP HLP Order dated January 23, 2006

Applicable Area

All FDUs.

Result or StrategyDefinitions

- 1.1 In Paragraphs 1.2 and 1.3:
- (a) **“Interior Western Screech Owl Known Locations”** means areas where Interior Western Screech Owls have been identified in the Kamloops TSA;
 - (b) **“Total Habitat Required”** means 60 ha of habitat specified in the **Species at Risk Background Information Document**.

Approach to Harvesting and Roads

- 1.2 Subject to Paragraph 1.3, the TSM will only carry out or authorize primary forest activities in an area occupied by “Interior” western Screech Owl if the TSM ensures that the design of the area:
- (a) refers to the “Interior” Western Screech Owl *Accounts and Measures for Managing Identified Wildlife* (Identified Wildlife Management Strategy Version 2004) and /or other

pertinent information for guidance during the development of strategies to conserve sufficient habitat in that area; and

- (b) considers **Interior Western Screech Owl Known Locations** when establishing **Wildlife Tree Patches**.

Amount of Area Affected

- 1.3 The amount of area subject to Paragraph 1.2 is the **Total Habitat Required** consistent with the policy direction on timber supply impacts.

5.7.6 Lewis's Woodpecker

#	Objective	Source
LRMP 2.1.12	Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue- listed species, as defined by BC Environment, and species designated as regionally important (e.g. Mule Deer)	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>All FDUs.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In Paragraphs 1.2 and 1.3:</p> <p>(a) “Lewis's Woodpecker Known Locations” means areas where Lewis's Woodpeckers have been identified in the Kamloops TSA from the spatial data from the Land and Resource Data Warehouse;</p> <p>(b) “Total Habitat Required” means 650 ha of habitat specified in the Species at Risk Background Information Document.</p> <p><u>Approach to Harvesting and Roads</u></p> <p>1.2 Subject to Paragraph 1.3, the TSM will only carry out or authorize primary forest activities in an area occupied by Lewis's Woodpecker if the TSM ensures that the design of the area:</p> <p>(a) refers to the Lewis's Woodpecker <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004) and/or other pertinent information for guidance during the development of strategies to conserve sufficient habitat in that area; and</p> <p>(b) considers Lewis's Woodpecker Known Locations when establishing Wildlife Tree Patches;</p> <p><u>Amount of Area Affected</u></p>		

- 1.3 The amount of area subject to Paragraph 1.2 is the **Total Habitat Required** consistent with the policy direction on timber supply impacts.

5.7.7 Badger

#	Objective	Source
LRMP 2.1.12	Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue- listed species, as defined by BC Environment, and species designated as regionally important (e.g. Mule Deer)	Kamloops LRMP HLP Order dated January 23, 2006
<p>Applicable Area</p> <p>All FDUs.</p>		
<p>Result or Strategy</p> <p><u>Definitions</u></p> <p>1.1 In Paragraphs 1.2 and 1.3:</p> <p>(a) “Badger Known Locations” means areas where Badgers have been identified in the Kamloops TSA as shown on spatial data from the Land and Resource Data Warehouse;</p> <p>(b) “Total Habitat Required” means 35 ha of habitat specified in the Species at Risk Background Information Document.</p> <p><u>Approach to Harvesting and Roads</u></p> <p>1.2 Subject to Paragraphs 1.3, the TSM will only carry out or authorize primary forest activities in an area occupied by Badger if the TSM ensures that the design of the area:</p> <p>(a) refers to the <i>Badger Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004) and/or other pertinent information for guidance during the development of strategies to conserve sufficient habitat; and,</p> <p>(b) considers Badger Known Locations when establishing Wildlife Tree Patches.</p> <p><u>Amount of Area Affected</u></p> <p>1.3 The amount of area subject to Paragraph 1.2 is the Total Habitat Required consistent with the policy direction on timber supply impacts.</p>		

5.7.8 Spotted Bat

#	Objective	Source
LRMP 2.1.12	Ensure habitat needs of all naturally occurring wildlife species are provided for. Special attention will be paid to those red- and blue- listed species, as defined by BC Environment, and species designated as regionally important (e.g. Mule Deer)	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDU's.		
Result or Strategy <u>Definitions</u> 1.1 In Paragraphs 1.2 and 1.3: (a) "Spotted Bat Known Locations" means areas where Spotted Bats have been identified in the Kamloops TSA.; (b) "Total Habitat Required" means 120 ha of habitat specified in the Species at Risk Background Information Document . <u>Approach to Harvesting and Roads</u> 1.2 Subject to Paragraph 1.3 , the TSM will only carry out or authorize primary forest activities in an area occupied by Spotted Bat if the TSM ensures that the design of the area: (a) refers to the Spotted Bat <i>Accounts and Measures for Managing Identified Wildlife</i> (Identified Wildlife Management Strategy Version 2004) and/or other pertinent information for guidance during the development of strategies to conserve sufficient habitat; and (b) considers Spotted Bat Known Locations when establishing Wildlife Tree Patches ; <u>Amount of Area Affected</u> 1.3 The amount of area subject to Paragraph 1.2 is the Total Habitat Required consistent with the policy direction on timber supply impacts.		

5.8 Visual Objectives

5.8.1 Visually Sensitive Areas in the Headwaters Forest District (Kamloops TSA)

#	Objective	Source
FRPA 9.2	The objective set by government in relation to visual quality for a scenic area, that a) was established on or before October 24, 2002, and b) for which there is no visual quality objective is to ensure that the altered forest landscape for the scenic area c) in visual sensitivity class 1 is in either the preservation or retention category, d) in visual sensitivity class 2 is in either the retention or partial retention category, e) in visual sensitivity class 3 is in either the partial retention or modification category, f) in visual sensitivity class 4 is in either the partial retention or modification category, g) in visual sensitivity class 5 is in either the modification or maximum modification category	FPPR Sec 9.2(2)
LRMP 2.1.14.2	The primary objective of management in Visually Sensitive Areas is to ensure that the levels of visual quality expected by society are achieved on Crown land in keeping with the concepts and principles of integrated resource management.	Kamloops LRMP HLP Order dated January 23, 2006

Applicable Area

Scenic Areas within all FDUs within the Headwaters Forest District portion of the Kamloops TSA.

Result or Strategy

Definitions

- 1.1 In Paragraphs 1.2 and 1.3, “**Visually Sensitive Areas**” means areas presented in Figure 5 of the Kamloops LRMP (July 28, 1995);

In Paragraph 1.3 “salvage” is defined as harvest in timber that has been damaged by insects, forest health factors, or fire where:

- a.) >35% of the net merchantable volume of a cutblock contains green, red, or grey attacked timber, or
- b.) >75% of the net merchantable volume of a cutblock contains fire damaged timber.

Approach to Harvesting and Roads

- 1.2 Subject to Paragraph 1.3, the TSM will only carry out or authorize primary forest activities in a **Visually Sensitive Area** if the TSM ensures that the design of the cutblock or road is consistent with the following:

- (a) In areas of **Visual Sensitivity Class 1**, the altered forest landscape is either **Preservation** or **Retention**;

- (b) In areas of **Visual Sensitivity Class 2**, the altered forest landscape is either **Retention** or **Partial Retention**;
- (c) In areas of **Visual Sensitivity Class 3**, the altered forest landscape is either **Partial Retention** or **Modification**;
- (d) In areas of **Visual Sensitivity Class 4**, the altered forest landscape is either **Modification** or **Maximum Modification**; and
- (e) the visual quality guidelines for timber harvesting outlined in Appendix 8 of the Kamloops LRMP (1995).

Effects of Other Circumstances

1.3 Paragraph 1.2 may not apply:

- (a) if and to the extent necessary for harvesting or road construction:
 - (i) required for safety, fire suppression, salvage or to manage pest or disease outbreaks;
 - (ii) authorized or required by government;
- (b) where, outside the control of the TSM, natural events or actions by third parties have impacted **Visually Sensitive Areas** so that the altered forest landscapes in Paragraph 1.2 cannot be achieved.

- 1.3.1 For the purposes of Paragraph 1.3 (a) (i):
The TSM will only carry out or authorize "salvage" primary forest activities in a Visually Sensitive Area if the TSM ensures that:
- a) the primarily forest activities will be carried out in accordance with visual landscape design principles identified in the January 2001 Visual Assessment guidebook to the extent practicable, and
 - b) all reasonable efforts will be made to be fully consistent with the visual quality objective.

5.8.2 Visually Sensitive Areas in the Kamloops Forest District (Kamloops TSA)

#	Objective	Source
FRPA 180/181	Grandparented Objective: Known scenic areas with established VQOs.	FRPA Sec.180 and 181
LRMP 2.1.14.2	The primary objective of management in Visually Sensitive Areas is to ensure that the levels of visual quality expected by society are achieved on Crown land in keeping with the concepts and principles of integrated resource management.	Kamloops LRMP HLP Order dated January 23, 2006

Applicable Area

Within Visually Sensitive Area as

- 1) presented in Figure 5 (July 28, 1995) of the Kamloops Land and Resource Management Plan and including
- 2) additional areas established under District Manager direction and as displayed in APPENDIX C - FOREST STEWARDSHIP PLAN MAPS.

within all FDUs within the Kamloops Forest District portion of the Kamloops TSA.

Result or StrategyApproach to Harvesting and Roads

In Paragraph 1.2 “salvage” is defined as harvest in timber that has been damaged by insects, forest health factors, or fire where:

- a) >35% of the net merchantable volume of a cutblock contains green, red, or grey attacked timber, or
- b) >75% of the net merchantable volume of a cutblock contains fire damaged timber.

1.1 Subject to Paragraph 1.2, the TSM will only carry out or authorize primary forest activities in a Visually Sensitive Area if the TSM ensures that the design of the primary forest activities are consistent with the following:

- (a) the Visual Quality Objectives; and
- (b) the visual quality guidelines for timber harvesting outlined in Appendix 8 of the Kamloops LRMP (1995).

Effects of Other Circumstances

1.2 Paragraph 1.1 may not apply:

- (a) if and to the extent necessary for harvesting or road construction:
 - (i) required for safety, fire suppression, salvage or to manage pest or disease outbreaks;
 - (ii) authorized or required by government;
- (b) where, outside the control of the TSM, natural events or actions by third parties have impacted **Visually Sensitive Areas** so that the objectives and guidelines in Paragraph 1.1 cannot be achieved.

1.2.1 For the purposes of Paragraph 1.2 (a) (i):

The TSM will only carry out or authorize “salvage” primary forest activities in a Visually Sensitive Area if the TSM ensures that:

- c) the primary forest activities will be carried out in accordance with visual landscape design principles identified in the January 2001 Visual Assessment guidebook to the extent practicable, and
- d) all reasonable efforts will be made to be fully consistent with the visual quality objective.

5.8.3 Areas Outside Visually Sensitive Areas within the Kamloops TSA

#	Objective	Source
LRMP Section 2.1.14.1	Areas outside the identified visually sensitive areas in the Kamloops LRMP are managed for landscape objectives as follows: alterations may dominate the characteristic landscape but must borrow from natural line and form to such an extent and on such a scale that they are comparable to natural occurrences.	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area Areas outside the identified visually sensitive areas in all FDUs.		
Result or Strategy <u>Definitions</u> 1.1 In Paragraphs 1.2 and 1.3, “ Visually Sensitive Areas ” means areas presented in Figure 5 (July 28, 1995) of the Kamloops LRMP; <u>Approach to Harvesting and Roads</u> 1.2 Subject to Paragraph 1.3, within an area in the FDU that is outside of the identified Visually Sensitive Areas, the TSM will only carry out or authorize primary forest activities if the TSM ensures that the design of the cutblock or road is consistent with mimicking naturally occurring landscape characteristics with variety of openings (in size, shape and distribution), by following natural boundaries, lines and forms such as ridgelines, creeks, draws, rock outcrops or timber types etc. to ensure that naturally appearing boundaries remain; <u>Effects of Other Circumstances</u> 1.3 Paragraph 1.2 may not apply if and to the extent necessary for harvesting or road construction: (a) required for safety, fire suppression, salvage or to manage pest or disease outbreaks; (b) authorized or required by government;		

5.9 Cultural Heritage Objectives**5.9.1 Cultural Heritage Resources**

#	Objective	Source
FRPA S.149	The objective set by government for cultural heritage resources is to conserve, or, if necessary, protect cultural heritage resources that are <ul style="list-style-type: none"> a) the focus of a traditional use by an aboriginal people that is of continuing importance to that people, and b) not regulated under the Heritage Conservation Act 	FPPR Sec 10

Applicable Area

All FDUs

Result or StrategyDefinitions

1.1 In Paragraphs 1.2 and 1.3:

- (a) **“Affected Cultural Heritage Resource”** means a cultural heritage resource to which the objective set by government in section 10 of the FPPR pertains;
- (b) **“Cultural Heritage Resource Evaluation”** means a process conducted by an authorized member of the affected First Nation or qualified professional to assess the existence and significance of an **Affected Cultural Heritage Resource**;
- (c) **“Culturally Modified Tree”** means trees that have been altered by aboriginal people as part of their traditional use of the forests;

Approach to Harvesting and Roads

1.2 Within an area in the FDU:

- (a) before carrying out or authorizing primary forest activities, the TSM will refer to potentially affected First Nations the areas identified for proposed forest harvesting and road construction and request information regarding cultural heritage resource values;
- (b) if the TSM is made aware of the presence of an affected cultural heritage resource in or adjacent to a proposed cutblock or road, the TSM will:
 - (i) evaluate and work to mitigate the direct impact of the road or cutblock on the affected **Cultural Heritage Resource** based on:
 - a. the relative value or importance of the affected **Cultural Heritage Resource** to a traditional use by an aboriginal people;
 - b. the relative abundance or scarcity of the affected **Cultural Heritage Resource**;
 - c. the historical extent of the traditional use of the affected **Cultural Heritage Resource** and
 - d. the impact that conserving or protecting the **Cultural Heritage Resource** has on the Timber Sales Manager’s ability to sell timber or an Agreement Holder’s timber harvesting rights.
 - (ii) work with the affected First Nations who provided cultural heritage resource information, on the development of strategies for mitigating potential impacts to those values; and
 - (iii) consider and implement the recommended management strategies.

- (c) if a previously unidentified **Affected Cultural Heritage Resource** is encountered during harvesting, road construction or mechanical site preparation that is carried out or authorized by the TSM, the TSM will require operations to cease to the extent necessary to protect the affected cultural heritage resource until a **Cultural Heritage Resource Evaluation** can be carried out.
- (d) If the **Cultural Heritage Resource Evaluation** determines that the previously unidentified **Cultural Heritage Resource** consists of only **Culturally Modified Trees**, then the TSM will ensure that
 - (i) a survey to identify **Culturally Modified Trees** is carried out, and
 - (ii) the survey results are provided to affected First Nations:
- (e) If the **Cultural Heritage Resource Evaluation** determines that the previously unidentified **Cultural Heritage Resource** is not a **Culturally Modified Tree** then the TSM will
 - (i) evaluate the direct impact of the forest practice on the Cultural Heritage Resource, and
 - (ii) in accordance with paragraph (b), prepare and implement recommendations to mitigate the impact on, conserve or, if necessary, protect the cultural heritage resource; and
 - (iii) communicate the outcomes of this evaluation to the First Nation in whose asserted traditional territory the area lies.

5.9.2 Archaeological Assessments

#	Objective	Source
LRMP Section 2.1.16	Undertake archaeological assessments in all High and Medium Potential areas identified in the Archaeological Overview Assessment	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDU's as it pertain to the area outlined in Figure 6 of the Kamloops LRMP otherwise referred to as "1995 AOA Model".		
Result or Strategy <u>Definitions</u> 1.1 In Paragraph 1.2: <ul style="list-style-type: none"> (a) "Archaeological Impact Assessment" means assessments initiated in response to proposed development projects which will disturb or alter the landscape, thereby potentially endangering archaeological sites, and (b) "Kamloops TSA Archaeological Overview Assessment" means the process 		

developed to guide forest development planning in the Kamloops TSA as amended from time to time (1999).

Approach to Harvesting and Roads

1.2 If the TSM carries out or authorizes primary forest activities within an FDU, the TSM will:

- (a) solicit input from affected First Nations through a referral process;
- (b) comply with Forest and Range Agreements (FRA) with regard to unique referral processes as they pertain to those agreements;
- (c) for participating First Nation Bands comply with the **Kamloops TSA Archaeological Overview Assessment** process for Forest Development Planning in the Kamloops TSA;
- (d) conduct **Archaeological Impact Assessments** on areas recommended through the **Kamloops TSA Archaeological Overview Assessment** process;
- (e) implement recommendations of the **Kamloops TSA Archaeological Overview Assessment**, where significant sites are found, through measures such as establishing no harvest buffers, redesign of cutblock boundaries, combining into wildlife tree patches or riparian reserves;
- (f) for those First Nation Bands who are not participating in the **Kamloops TSA Archaeological Overview Assessment** process, conduct archaeological assessments in all high and Medium Potential areas identified in Figure 6 of the Kamloops Land and Resource Management Plan (1995).

5.10 Settlement Area Objectives

#	Objective	Source
LRMP Section 2.2	Manage land within community growth boundary to meet the objectives set out in approved community land use plans	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area FDUs which contain the following Settlement Resource Management Zones: Ashcroft, Ashcroft Manor, Avola, Barriere, Blackpool, Blue River, Boston Flats, Cache Creek, Campbell Creek, Cherry Creek, City of Kamloops, Clearwater, Duck Range, East Clearwater, Heffley Creek, Knutsford, Lac Le Jeune, Logan Lake, Louis Creek, McLure, Martin Prairie, Mesa Vista, Monte Creek, North of Heffley Creek, Paul Lake, Pinantan, Pritchard, Savona, Six Mile, Sullivan (Knouff) Lake, Sunshine Valley and Vinsula/Black Pines.		
Result or Strategy <u>Definitions</u> 1.1 In Paragraph 1.2, “ Settlement Resource Management Zones ” means areas proposed for settlement use as outlined in an Official Community Plan, Crown Land Plan or an		

LRMP.

Approach to Harvesting and Roads

- 1.2 Before the TSM carries out or authorizes primary forest activities in the Settlement Resource Management Zones, the TSM will consider any approved community land use plans that are applicable.

5.11 Range

#	Objective	Source
LRMP Sec. 2.1.10	Minimize tree/grass/cattle conflicts through integrated management practices.	Kamloops LRMP HLP Order dated January 23, 2006
Applicable Area All FDUs.		
Strategy <u>Approach to Harvesting and Roads</u> 1.1 Before the TSM carries out or authorizes primary forest activities within an FDU that contains range tenure, the TSM will; <ul style="list-style-type: none"> (a) on an annual basis or as required inform the range tenure holder of activities within or adjacent to their range tenure, and (b) where range tenure holder indicates that conflict between timber and range management may arise develop and implement strategies, in collaboration with the range tenure holder, to minimize such conflict through integrated management practices. 		

5.12 Range Barriers and Noxious Weed Measures**5.12.1 Natural Range Barriers - Measures**

The following measures will be undertaken by the holder of this FSP in all FDU areas that contain, or are adjacent to range tenures:

#	Objective	Source
FRPA Section 48	BCTS must specify measures to mitigate the effect of removing or rendering ineffective natural range barriers.	FPPR Section 18
Applicable Area All FDUs.		

MeasuresApproach to Harvesting and Roads

- 1.1 TSM will annually, based on information obtained from Ministry of Forests and Range, update maps of occupied areas or areas adjacent to range tenures with information pertinent to range management (range unit boundaries, natural barriers).
- 1.2 Before the TSM carries out or authorizes primary forest activities within an FDU, the TSM will;
- (a) inform the range holder of activities within or adjacent to their range tenure, and
 - (b) where the range tenure holder indicates that primary forest activities may remove or render ineffective a **Natural Range Barrier**, work with the range tenure holder to develop and implement a strategy for mitigation.

5.12.2 Invasive Plants - Measures

Requirement	Source
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 is likely to be a result of the person's forest practices.	FRPA Section .47 and FPPR Section 17
Applicable Area All FDUs	
Measures <u>Definitions</u> 1.1 In Paragraph 1.2, " Invasive Plant Species " means those plants defined in the Invasive Plants Regulation (January 31, 2004) as amended from time to time. <u>Approach to Harvesting and Roads</u> 1.2 The measures for the purposes of preventing the introduction or spread of prescribed species of invasive plants are: <ul style="list-style-type: none"> (a) before the TSM carries out or authorizes primary forest activities within an FDU, the TSM will check the provincial inventory database and mapping system for the presence of invasive plant species in the area proposed for development; (b) if the TSM carries out or authorizes primary forest activities that will result in creating contiguous areas of disturbed soil ≥ 0.25 ha, the TSM will ensure that, within one year of their completion, the portions of the area occupied by ditch-lines, cut-or fill slopes, and deactivated roads which are not reforested (except for active running surface) are revegetated using: <ul style="list-style-type: none"> i) seed or forage mixture that meets or exceeds Canada Common Number 1 Forage Mixture as defined by the <i>Canada Seeds Act</i> and Regulation; or 	

ii) native forbs or shrubs.

(c) report new invasive plant infestation sites to the Ministry of Forests and Range within one year of discovery.

6. STOCKING STANDARDS

All stocking requirements are applicable across the entire FSP area (all FDUs).

Legal Reference: Section 29 (2) of the Act and Section 16 and 44(1) of the FPPR

Scale of Measurement: Cutblock.

Map Reference: N/A.

General Standards

Where the TSM is required under FRPA to establish a free growing stand with respect to timber harvesting governed by this FSP, the TSM will do so in accordance with the coniferous (even-aged), coniferous (uneven-aged), and deciduous stocking standards in Appendix A.

For areas where the TSM authorizes commercial thinning or other similar type of intermediate cutting, stocking standards for the residual stand will be applied as per Table 11 in Appendix A-2 and/or Appendix A-3.

**SIGNATURES OF PREPARING FORESTER AND PERSON REQUIRED TO
PREPARE PLAN**

	Preparing Forester <i>"I certify that I have determined that this work was performed to an acceptable standard"</i>
Zoran Boskovic, R.P.F BCTS Planning Forester Kamloops Timber Sales Office Kamloops Business Area	

	Signature of Person Required to Prepare the Plan
Tony Buckley, P.Eng Timber Sales Manager Kamloops Timber Sales Office Kamloops Business Area	

APPENDIX A – STOCKING STANDARDS TABLES**5.13A-1 GENERAL DISCUSSION****Minimum Inter-Tree Distance**

The minimum inter-tree distance may be reduced to 1.5 meters from the 2 metres stated in the stocking standards if the Site Plan has identified any of the following criteria:

- hygric or wetter sites
- mechanical site preparation (including mounding, patch scarification and disc trenching)
- group planting (eg. Grizzly habitat, Caribou Management Guidelines)
- very rocky soils
- areas with a high potential for cattle congregation
- sites with a significant number of wildlife trees
- riparian management zones with a high residual component
- sites that will be stumped to manage root rot
- partial cut areas with an abundance of residual regeneration.
- very harsh sites where protected microsites are critical (e.g. Shade, snow creep)

Crop Tree/Brush Ratio**Table 9. Percent height above brush by BEC Zone**

% Height above Brush	Biogeoclimatic Zone
125	ESSF, IDF, MS, PP, BG
150	ICH, SBPS, SBS

Characteristics of Retained Trees

- In situation or circumstances where trees are retained to form either an even-aged or an uneven aged stand following timber harvesting the minimum characteristics of trees to be retained will be consistent with the tree characteristics as specified in the Silviculture Survey Reference cards (FS 660-1 HFP 01/05).

Mixed Wood Stocking Standards

- Broadleaf species will be used as preferred or acceptable well spaced trees in conjunction with suitable conifers where a predominantly broadleaf stand is being harvested for commercial use and there is a reasonable expectations of returning that site to a commercially valuable broadleaf stand
- Consistent with the KLRMP, the option is available to use mixed wood stocking standards in areas with predominantly deciduous to create a stand similar to the pre-harvest stand.

Broadleaf Stocking Standards

- Broadleaf Stocking Standards will be used on sites of pure deciduous or at least greater than 80% deciduous component by net cruise volume.
- Free growing height will be equal to the tallest conifer height for the site series/stocking standard ID.

Regeneration Delay

- Regeneration delay will be 4 years unless the site plan identifies natural regeneration for the block or SU then regeneration delay will be set up to a maximum of 7 years.

Damage Criteria

- BCTS will use damage criteria for Regeneration and Free growing surveys specified in FS 660, 2005/01 or equivalent future guidelines.

Maximum Density

- Maximum density for Lodgepole pine leading stands is 25,000 countable stems per hectare. Lodgepole pine leading stands are stands where pine component is ≥ 80 percent of the inventory label.
- For all other species and mixed pine stands where pine component is less than 80 percent by inventory, maximum density will be 10,000 countable stems per hectare.

White Pine

- Where Pw is an acceptable species in the attached stocking standards, planted Rust Resistant stock will be considered preferred, to a maximum of 50% of total preferred and acceptable well spaced stems.
- Natural regenerated or non-rust resistant planted Pw to be pruned to 1.3 metre height to reduce white pine blister rust. Pw to be pruned only if accounting for more than 5% of the required stems per hectare to meet minimum free growing numbers. If less than 5% then accept unpruned Pw as free growing.

Deviation From Potential Stocking Standards and Survey methodology

- Partial Cutting stocking standards may be used to define and assess stocking success in partial cut standards units (SUs) applied to even-aged Silviculture systems that have retained a minimum of 5m³/ha of residual basal area. Details of the methodology and process are contained in the background materials. Intent is to use these standards primarily where an Intermediate Cut No Regeneration Objectives Silviculture System is being used to meet necessary site objectives including but not limited to: Visuals, Wildlife, Adjacency, Beetle Management in areas of lower Beetle attack and susceptible host trees. (See Section A-3 - Partial Cutting Stocking Standards).

5.14A-2 STOCKING STANDARDS TABLES

Table 10. Stocking Standards for Even-aged Stands

Identification		Situations/ Circumstances of Application				Regeneration Standards						Free Growing Standards					
MOFLNRO ID #	Estab. Obj/ Strat Ref.	Location		Other		Species		Density (well spaced)		FG Date	Species		Height		Density Limits		
		Physical Location/ Geographic	BEC	Zone/SubZone/Var	Site Series	(describe)	Conifers		Broadleaf		Max (yrs)	Min (m)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)			
							Preferred (p)	Acceptable (a)	Preferred (p)						Acceptable (a)		
1005273		BGxh2		03*		Py ²⁷		400	200	200	20	All	0.5	10,000	400	3500	
1005274			04*		Fd ²⁷		400	200	200	20	All	0.5	10,000	400	3500		
1005275			07*		Fd ²⁷		400	200	200	20	All	0.5	10,000	400	3500		
1005276			03*		Py ²⁷		400	200	200	20	All	0.5	10,000	400	3500		
1005277			05*		Py ²⁷		400	200	200	20	All	0.5	10,000	400	3500		
1005278				08		Fd ²⁷		1200	700	600	20	All	0.6	10,000	1200	3500	
16100		ESSfdec1		01		PI Se		1200	700	600	20	Others	0.8	10,000	1200	3500	
16101				02		PI		1000	500	400	20	PI 1.2	10,000	1000	3500		
16102				03		PI ¹⁵ Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
16103				04		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
16104				05		PI Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
16105				06		PI ¹ Se ¹⁻¹²		1000	500	400	20	Others 0.6	10,000	1000	3500		
16247		ESSfdec2		01		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
16248				02*		PI ²²		600	400	400	20	Others 0.8	10,000	600	3500		
16249				03		PI ¹⁵ Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
16250				04		PI		1000	500	400	20	Others 0.6	10,000	1000	3500		
16251				05		PI Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
16252				06		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
16253				07		PI Se ²²		1200	700	600	20	PI 1.6	10,000	1200	3500		
16254				08		PI ¹ Se ¹⁻¹²		1000	500	400	20	Others 0.6	10,000	1000	3500		
1005279		ESSfdec1		01		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005280				02*		PI ²²		1000	500	400	20	PI 1.2	10,000	600	3500		
1005281				03		PI ¹⁵ Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005282				04		PI Se		1200	700	600	20	Others 0.6	10,000	1000	3500		
1005283				05		PI Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005284				06		PI Se		1000	500	400	20	PI 1.6	10,000	1200	3500		
1005285		ESSfdec2		01		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005286				02*		PI ²²		600	400	400	20	Others 0.8	10,000	600	3500		
1005287				03		PI		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005288				04		PI		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005289				05		PI Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005290				06		PI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005291				07		PI Se ²²		1200	700	600	20	Others 0.8	10,000	1200	3500		
1005292				08		PI ¹ Se ¹⁻¹²		1000	500	400	20	Others 0.6	10,000	1000	3500		
1005293		ESSfmm1		01		BI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005294				02		BI ²³ PI Se ²³		1000	500	400	20	Others 0.8	10,000	1000	3500		
1005295				03		PI		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005296				04		BI Se		1200	700	600	20	Others 0.6	10,000	1200	3500		
1005297				05		BI Se		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005298				06		BI Se		1200	700	600	20	Others 0.8	10,000	1200	3500		
1005299				07*		BI ¹⁻¹² Se ¹⁻¹²		400	200	200	20	PI 1.2	10,000	400	3500		
1032575		ESSfmm1		01, 04, 05		BI ²³ PI Se ²³		1200	700	600	20	PI 1.6	10,000	1200	3500		
1005300		ESSfvc		01		BI Se		1200	700	600	20	All 0.8	10,000	1200	3500		
1005301				02		Se		1000	500	400	20	PI 1.2	10,000	1000	3500		
1005302				03		BI Se		1000	500	400	20	Others 0.6	10,000	1000	3500		
1005303				04		BI Se		1200	700	600	20	All 0.8	10,000	1200	3500		
1005304				05		BI ¹⁻¹² Se ¹⁻¹²		1000	500	400	20	All 0.6	10,000	1000	3500		
1005305		All Landscape Units: except Mica, Cayenne, Turn Turn	ESSfvc	01		BI ²³ Se ²³		1200	700	600	25	All 0.6	10,000	1200	3500		
1005306			02		BI ²³ Se ²³		600	400	400	25	PI 1.2	10,000	600	3500			
1005307			03		BI ²² Se ²²		1000	500	400	25	All 0.6	10,000	1000	3500			
1005308			04		BI ²² Se ²²		600	400	400	25	All 0.6	10,000	600	3500			
1005309		Landscape Units: Mica, Cayenne, Turn Turn	ESSfvc	01		BI ²³ Se ²³		1200	700	600	25	All 0.6	10,000	1200	3500		
1005310			02		BI ²³ Se ²³		600	400	400	25	PI 1.2	10,000	600	3500			
1005311			03		BI ²² Se ²²		1000	500	400	25	Others 0.6	10,000	1000	3500			
1005312			04		BI ²² Se ²²		600	400	400	25	All 0.6	10,000	600	3500			

Identification		Situations/ Circumstances of Application				Regeneration Standards						Free Growing Standards				
MOFLNRO ID #	Estab. Obj/ Strat Ref.	Location		BEC	Site Series	Other (describe)	Species		Density (well spaced)		Max (yrs)	Species	Height Min (m)	Density Limits		
		Physical Location/ Geographic	Zone/SubZone/Var				Conifers	Broadleaf	Target P&A	Min P&A				Min P	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)
16106			ESSFwc2		01		Bl Se	Pi ^{17,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16107					02		Pi ¹⁷ Se	Bl			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
16108					03		Se Pi ^{17,24}	Bl			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
16109					04		Bl Se	Pi ^{17,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16110					05		Bl Se	Pi ^{15,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16111					06		Bl ¹² Se ²²	Pi ^{23,34}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16112					07		Bl Se	Pi ^{23,34}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16113					08		Bl ^{1,22} Se ^{1,32}	Pi ^{23,34}			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
16114					09*		Pi ¹ Se ^{1,32}	Bl ^{1,32}			400 200 200 20		Pi 1.2 Others 0.6	10,000	400 3500	
1005309			ESSFwc2		01		Bl Se	Pi ^{17,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005310					02		Pi ¹⁷ Se	Bl			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
1005311					03		Se Pi ^{17,24}	Bl			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
1005312					04		Bl Se	Pi ^{17,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005313					05		Bl Se	Pi ^{15,24}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005314					06		Bl ¹² Se ²²	Pi ^{23,34}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005315					07		Bl Se	Pi ^{23,34}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005316					08		Bl ^{1,22} Se ^{1,32}	Pi ^{23,34}			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
1005317					09*		Pi ¹ Se ^{1,32}	Bl ^{1,32}			400 200 200 20		Pi 1.2 Others 0.6	10,000	400 3500	
1016007			ESSFwc2 David Lake ESBF Transitional		01, 04, 05, 06, 07		Bl Se Sx Pi				1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1016008			ESSFwc2 Mackenzie Ck David Lake pine leading		01, 04, 05, 06		Bl Sx Pi				1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1033186			ESSFwc2 ESSFwc2 with Pi as preferred		01, 04, 05, 06		Bl Sx Pi				1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16115			ESSFxc		01		Pi Se ²²	Pi ^{10,13}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16116					02		Pi	Bl ¹² Se			600 400 400 20		Pi 1.2 Others 0.6	10,000	600 3500	
16117					05		Pi	Bl ¹² Se			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
16118					06		Pi Se	Bl ¹²			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16119					07		Pi Se ²²	Bl ²²			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
16120					08		Pi ¹ Se ^{1,32}	Bl ^{1,32}			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
1005318			ESSFxc		01		Pi Se ²²	Pi ^{10,13}			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005319					02		Pi	Bl ¹² Se			600 400 400 20		Pi 1.2 Others 0.6	10,000	600 3500	
1005320					05		Pi	Bl ¹² Se			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
1005321					06		Pi Se	Bl ¹²			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005322					07		Pi Se ²²	Bl ²²			1200 700 600 20		Pi 1.6 Others 0.8	10,000	1200 3500	
1005323					08		Pi ¹ Se ^{1,32}	Bl ^{1,32}			1000 500 400 20		Pi 1.2 Others 0.6	10,000	1000 3500	
16159			IDFdk1		01		Fd ²⁰ Pi	Pi ^{1,14} Sx ^{15,13}	At		1000 500 400 20		Pi 1.0 Fd 0.8 Sx 0.6 Py 0.6	10,000	1000 3500	
16160					02		Fd ²⁰ Pi ^{1,14}				600 400 400 20		Fd 0.8 Py 0.6	10,000	600 3500	
16161					03		Fd Pi	Pi ^{1,14,23}			600 400 400 20		Fd 0.8 Py 0.6	10,000	600 3500	
16162					04		Fd Pi	Pi ^{1,14} Sx ^{15,13}			1000 500 400 20		Fd 0.8 Py 0.6	10,000	1000 3500	
16163					05		Fd ^{14,22} Sx	Bl ^{15,13} Pi	Act At	Ep	1000 500 400 20		Pi 1.0 Fd 0.8 Others 0.6	10,000	1000 3500	
16164					06		Pi ¹ Sx ¹ Fd ^{1,22}	Bl ¹	Act	At Ep	1000 500 400 20		Pi 1.0 Fd 0.8 Others 0.6	10,000	1000 3500	
16165			IDFdk1a		04		Fd ²⁰	Pi	At		1200 700 600 20		Fd 1.0 Pi 1.4	10,000	1200 3500	
1005324			IDFdk1		01		Fd ²⁰ Pi	Pi ^{1,14} Sx ^{15,13}	At		1000 500 400 20		Pi 1.0 Fd 0.8 Sx 0.6 Py 0.6	10,000	1000 3500	
1005325					02		Fd ²⁰ Pi ^{1,14}				600 400 400 20		Fd 0.8 Py 0.6	10,000	600 3500	
1005326					03		Fd Pi	Pi ^{1,14,23}			600 400 400 20		Fd 0.8 Py 0.6	10,000	600 3500	
1005327					04		Fd Pi	Pi ^{1,14} Sx ^{15,13}			1000 500 400 20		Fd 0.8 Py 0.6	10,000	1000 3500	
1005328					05		Fd ^{14,22} Sx	Bl ^{15,13} Pi	Act At	Ep	1000 500 400 20		Pi 1.0 Fd 0.8 Others 0.6	10,000	1000 3500	
1005329					06		Pi ¹ Sx ¹ Fd ^{1,22}	Bl ¹	Act	At Ep	1000 500 400 20		Pi 1.0 Fd 0.8 Others 0.6	10,000	1000 3500	

Identification		Situations/ Circumstances of Application					Regeneration Standards								Free Growing Standards					
Location		Physical Location/ Geographic		BEC		Other		Species				Density (well spaced)			Fg Date		Species: Height		Density Limits	
MOFLNRO ID	Estab. Obj/ Strat Ref.							Conifers	Broadleaf		Target P&A	Min P&A	Min P	Max (yrs)	Min (m)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)			
#			Zone/SubZone/Var		Site Series	(describe)	Preferred (p)	Acceptable (a)	Preferred (p)	Acceptable (a)		(sph)								
1005339			IDRdk1a		04		Fd ²²	PI	At			1200	700	600	20		Fd PI 1.0 1.4	10,000	1200	3500
16186			IDRdk2				Fd ²² PI	Py ^{14,14} Sx ^{10,13}	At			1000	500	400	20		PI 1.0 1.0	10,000	1000	3500
16167					02		Fd ²² Py ¹⁴					600	400	400	20		Sx, Py 0.6 0.6	10,000	600	3500
16168					03		Fd ²² PI	Py ¹⁴				1000	500	400	20		Fd 0.8 0.8	10,000	1000	3500
16169					04		Fd ²² PI Sx ^{10,13}	Py ^{14,14}	At			1200	700	600	20		Py 0.6 0.6	10,000	1200	3500
16170					05		Fd ²² Sx PI	Cw ²²	Act At Ep			1200	700	600	20		PI 1.4 1.0	10,000	1200	3500
16171					06		PI ¹ Sx ¹ Fd ¹⁰		Act	At Ep		1000	500	400	20		Fd 0.8 0.8	10,000	1000	3500
16172					07		PI ¹ Sx ¹	Cw ²²	Act At Ep			1000	500	400	20		PI 1.0 1.0	10,000	1000	3500
1005331			IDRdk2		01		Fd ²² PI	Py ^{14,14} Sx ^{10,13}	At			1000	500	400	20		Others 0.6 0.6	10,000	1000	3500
1005332					02		Fd ²² Py ¹⁴					600	400	400	20		Sx, Py 0.6 0.6	10,000	600	3500
1005333					03		Fd ²² PI	Py ¹⁴				1000	500	400	20		Fd 0.8 0.8	10,000	1000	3500
1005334					04		Fd ²² PI Sx ^{10,13}	Py ^{14,14}	At			1200	700	600	20		PI 1.4 1.0	10,000	1200	3500
1005335					05		Fd ²² Sx PI	Cw ²²	Act At Ep			1200	700	600	20		Py 0.8 0.8	10,000	1200	3500
1005336					06		PI ¹ Sx ¹ Fd ¹⁰		Act	At Ep		1000	500	400	20		Others 0.8 0.8	10,000	1000	3500
1005337					07		PI ¹ Sx ¹	Cw ²²	Act At Ep			1000	500	400	20		Fd 0.8 0.8	10,000	1000	3500
16173			IDRdk3		01		Fd ^{22,22} PI	Sx ^{11,28}	At			1200	700	600	20		Others 1.4 1.0	10,000	1200	3500
16174					02*		Fd ²² PI					1000	500	400	20		Fd 1.0 0.8	10,000	1000	3500
16175					03*		Fd ²² PI					600	400	400	20		Sx 0.8 0.8	10,000	600	3500
16176					04		Fd ²² PI					1200	700	600	20		Fd 0.8 0.8	10,000	1200	3500
16177					05		Fd ²² PI		At ⁶			1200	700	600	15		PI 1.4 1.0	10,000	1200	3500
16178					06		Fd ²² PI		At ⁶			1200	700	600	15		Fd 1.0 1.0	10,000	1200	3500
16179					07		Fd ²² PI Sx		At	Ep		1000	500	400	20		PI 1.0 1.0	10,000	1000	3500
16178					08		Fd ²² PI Sx		Act At	Ep		1000	500	400	20		Fd 0.8 0.8	10,000	1000	3500
16179					09		Sx ^{1,22} PI ¹		Act			1000	500	400	20		Sx 0.6 0.6	10,000	1000	3500
1005338			IDRdk3		01		Fd ^{22,22} PI	Sx ^{11,28}	At			1200	700	600	20		PI 1.4 1.0	10,000	1200	3500
1005339					02*		Fd ²² PI					1000	500	400	20		Fd 1.0 0.8	10,000	1000	3500
1005340					03*		Fd ²² PI					600	400	400	20		Sx 0.8 0.8	10,000	600	3500
1005341					04		Fd ²² PI					1200	700	600	20		PI 1.0 1.0	10,000	1200	3500
1005342					05		Fd ²² PI		At ⁶			1200	700	600	15		Fd 1.0 1.0	10,000	1200	3500
1005343					06		Fd ²² PI		At ⁶			1200	700	600	15		PI 1.4 1.0	10,000	1200	3500
1005344					07		Fd ²² PI Sx		At	Ep		1000	500	400	20		Fd 1.0 1.0	10,000	1000	3500
1005345					08		Fd ²² PI Sx		Act At	Ep		1000	500	400	20		PI 1.0 1.0	10,000	1000	3500
10053446					09		Sx ^{1,22} PI ¹		Act			1000	500	400	20		Sx 0.6 0.6	10,000	1000	3500
16180			IDFmw2		01		Fd PI	Cw ^{10,13} Sx ^{10,13} Bl ^{10,13} LW ⁶⁰ Py	At Ep			1200	700	600	20		PI, LW 1.5 1.0	10,000	1200	3500
16181					01-YC		Fd PI	Bl ^{10,13} Cw ^{10,13} Sx ^{10,13} LW ⁶⁰	At Ep	Act		1200	700	600	20		Others 0.8 0.8	10,000	1200	3500
16182					01-YB		Fd PI	Sx ^{10,13} Bl ^{10,13} LW ⁶⁰ Cw ^{10,13}	At Ep			1200	700	600	20		Fd 1.0 1.0	10,000	1200	3500
16183					02		Fd ²² PI	Py ^{14,14,16,23}				600	400	400	20		PI, LW 1.5 1.0	10,000	600	3500
16184					03		Fd ¹⁴ PI	Py ^{14,14} Cw ^{10,13} Sx ^{10,13}				1000	500	400	20		Fd 1.0 1.0	10,000	1000	3500
16185					04		Fd ²² Sx PI	Cw ^{22,22} LW ⁶⁰	Act At Ep			1200	700	600	20		PI, LW 1.5 1.0	10,000	1200	3500
16186					05*		Sx ¹ PI ¹	Cw ^{1,22}	Act	At Ep		400	200	200	20		Others 0.8 0.8	10,000	400	3500

Identification		Situations/ Circumstances of Application				Other		Regeneration Standards				Free Growing Standards							
MOFLNRC ID #	Estab. Obj/ Strat Ref.	Location		BEC	Zone/SubZone/Var	Site Series	(describe)	Species		Density (well spaced)		FG Date	Species	Height	Density Limits				
		Physical Location/ Geographic						Conifers	Broadleaf	Target P&A	Min P&A					Min P&A	Max (yrs)	Min (m)	Pre Space (Max sph)
16255					IDFmw2	01		Fg PI	Cw ¹⁵⁻¹² Sx ¹⁵⁻¹³ Bt ¹⁵⁻¹³ Lw ¹⁵ PI	AI Ep	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500	
1005347					IDFmw2	01		Fg PI	Cw ¹⁵⁻¹² Sx ¹⁵⁻¹³ Bt ¹⁵⁻¹³ Lw ¹⁵ PI	AI Ep	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500	
1005348					01-YC			Fg PI	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹² Sx ¹⁵⁻¹³ Lw ¹⁵	AI Ep	Act	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005349					01-YB			Fg PI	Sx ¹⁵⁻¹³ Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹² Lw ¹⁵	AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005350					02			Fg ²² PI	P ³⁻¹⁴⁻¹²			600	400	400	20	Fg 1.0 Sx 0.8 PI 1.2 Fg 1.0 PI 0.6	10,000	600	3500
1005351					03			Fg ²² PI	P ³⁻¹⁴⁻¹⁴ Cw ¹⁵⁻¹³ Sx ¹⁵⁻¹³			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005352					04			Fg ²² Sx PI	Cw ²²⁻¹² Lw ¹⁵	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005353					05*			Sx ¹ PI ¹	Cw ¹⁻²²	Act	AI Ep	400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
16187					IDFkh1	01		Fg ²² PI	Lw ¹⁵⁻¹³⁻³²	AI		1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16188					02*			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
16189					03			P ³⁻² Fg ²²				500	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	500	3500
16190					04			P ³⁻² Fg ²²				600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	600	3500
16191					05			P ³⁻² Fg ²²				600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	600	3500
16192					06			Fg ²² PI	Lw ¹⁵⁻¹³⁻³²			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16193					07			Fg ²² PI	Lw ¹⁵⁻¹³⁻³² Cw ²²			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16194					08			Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵	Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
16195					IDFkh1a	98		Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵		AI		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005354					IDFkh1	01		Fg ²² PI	Lw ¹⁵⁻¹³⁻³²			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005355					02*			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
1005356					03			P ³⁻² Fg ²²				500	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	500	3500
1005357					04			P ³⁻² Fg ²²				600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	600	3500
1005358					05			P ³⁻² Fg ²²				600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	600	3500
1005359					06			Fg ²² PI	Lw ¹⁵⁻¹³⁻³²			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005360					07			Fg ²² PI	Lw ¹⁵⁻¹³⁻³² Cw ²²			1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005361					08			Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵	Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005362					IDFkh1a	98		Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵		AI		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
16196					IDFkh2	01		Fg ²² PI				1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16197					02			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
16198					03			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
16199					04			P ³⁻² Fg ²²				500	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	500	3500
16200					05			Fg ²² PI				1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16201					06			Fg ²² PI				1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
16202					07			Fg ²² Sx	P ³⁻² Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
16203					08			Sx ¹ Fg ²²	P ³⁻²²	Act AI Ep		1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
16204					IDFkh2a	95		Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵		AI		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005363					IDFkh2	01		Fg ²² PI				1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005364					02*			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
1005365					03			P ³⁻² Fg ²²				400	200	200	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	400	3500
1005366					04			P ³⁻² Fg ²²				500	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	500	3500
1005367					05			Fg ²² PI				1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005368					06			Fg ²² PI				1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005369					07			Fg ²² Sx	P ³⁻² Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
1005370					08			Sx ¹ Fg ²²	P ³⁻²²	Act AI Ep		1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1000	3500
1005371					IDFkh2a	95		Fg ²² PI ¹⁵ Bt ¹⁵ Sx ¹⁵		AI		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.5	10,000	1200	3500
16121					ICHknk1	01		Fg ²² Lw ¹⁵⁻¹³⁻³² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep	Act	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
16122					01-YB			Fg ²² Lw ¹⁵⁻¹² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep	Act	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
16123					02			Fg PI	Bt ¹⁵⁻¹³ Sx ¹⁵⁻¹³			600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	600	3500
16124					03			Fg Lw PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³	AI	Ep	1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.0 Others 0.8	10,000	1000	3500
16125					04			Fg ²² Lw ¹⁵⁻¹² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
16126					05			PI Sx Fg ²² Lw ¹⁵⁻¹² Lw ¹⁵⁻¹²	BI Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1200	3500
16127					06			PI Sx Fg ²² Lw ¹⁵⁻¹² Lw ¹⁵⁻¹²	BI Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1200	3500
16128					07			PI ¹ Sx ¹ Lw ¹⁵⁻¹² Fg ²²	BI ¹ Cw ²²	Act	AI Ep	1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1000	3500
1005372					ICHknk1	01		Fg ²² Lw ¹⁵⁻¹³⁻³² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep	Act	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
1005373					01-YB			Fg ²² Lw ¹⁵⁻¹² Lw ¹⁵⁻¹² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep	Act	1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
1005374					02			Fg PI	Bt ¹⁵⁻¹³ Sx ¹⁵⁻¹³			600	400	400	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	600	3500
1005375					03			Fg Lw PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³	AI	Ep	1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1000	3500
1005376					04			Fg ²² Lw ¹⁵⁻¹² PI Sx ¹⁵⁻¹³	Bt ¹⁵⁻¹³ Cw ¹⁵⁻¹³⁻³²	AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 1.0	10,000	1200	3500
1005377					05			PI Sx Fg ²² Lw ¹⁵⁻¹² Lw ¹⁵⁻¹²	BI Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1200	3500
1005378					06			PI Sx Fg ²² Lw ¹⁵⁻¹² Lw ¹⁵⁻¹²	BI Cw ²²	Act AI Ep		1200	700	600	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1200	3500
1005379								PI ¹ Sx ¹ Lw ¹⁵⁻¹² Fg ²²	BI ¹ Cw ²²	Act	AI Ep	1000	500	400	20	Pl, Lw, Sx, Bt, PI Fg 1.4 Others 0.8	10,000	1000	3500

Identification		Location		Situations/ Circumstances of Application		Other		Regeneration Standards				Density (well spaced)		Free Growing Standards		
MOFLNRO ID	Estab. Obj/ Strat Ref.	Physical Location/ Geographic	BEC					Species		Target	Min	Max (yrs)	Species	Height	Density Limits	
#			Zone/SubZone/Var.		Site Series	(describe)		Preferred (p)	Acceptable (a)	Preferred (p)	Acceptable (a)	(sph)		Min (m)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)
16129		South of 51° 30' Latitude	ICHmk2		01			Fd ^{14,15} Pj Sx Lw ^{14,15,16,18}	Bl ^{15,16} Cw	At Ep	Act	1200 700 600 20	Pj, Lw Fd Sx Others	2.0 1.4 0.8 1.0	10,000	1200 3500
16130				02		Fd Pj	Sx ^{16,17}					600 400 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	600 3500
16131				03		Fd Pj Sx ^{16,17}	Cw ^{16,17}	At	Ep			1000 500 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	1000 3500
16132				04		Fd Pj Sx	Bl ^{15,16} Cw ^{15,16} Lw ^{14,15,16,18}	At Ep				1200 700 600 20	Pj, Lw Fd Sx Others	2.0 1.4 0.8 1.0	10,000	1200 3500
16133				05		Fd ^{14,15} Pj Sx	Bl ¹⁵ Cw ¹⁶	Act At Ep				1200 700 600 20	Pj Fd Others	2.0 1.4 1.0	10,000	1200 3500
16134				06		Pj ¹ Sx ¹ Fd ^{1,12}	Bl ¹ Cw ¹²	Act	At Ep			1000 500 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	1000 3500
16256		North of 51° 30' Latitude	ICHmk2		01			Fd ^{14,15} Pj	Bl ^{15,16} Cw Lw ^{14,15,16,18}	At Ep	Act	1200 700 600 20	Pj, Pw Fd Sx	2.0 1.4 0.8	10,000	1200 3500
1003927		North of 51° 30' Latitude	ICHmk2		01			Fd ^{14,15} Pj Sx Lw ^{14,15,16,18}	Bl ^{15,16} Cw	At Ep	Act	1200 700 600 20	Pj, Pw Fd Sx	2.0 1.4 0.8	10,000	1200 3500
1005380		South of 51° 30' Latitude	ICHmk2		01			Fd ^{14,15} Pj Sx Lw ^{14,15,16,18}	Bl ^{15,16} Cw Lw ^{14,15,16,18}	At Ep	Act	1200 700 600 20	Pj, Lw Fd Sx Others	2.0 1.4 0.8 1.0	10,000	1200 3500
1005381				02		Fd Pj	Sx ^{16,17}					600 400 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	600 3500
1005382				03		Fd Pj Sx ^{16,17}	Cw ^{16,17}	At	Ep			1000 500 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	1000 3500
1005383				04		Fd Pj Sx	Bl ^{15,16} Cw ^{15,16} Lw ^{14,15,16,18}	At Ep				1200 700 600 20	Pj, Lw Fd Sx Others	2.0 1.4 0.8 1.0	10,000	1200 3500
1005384				05		Fd ^{14,15} Pj Sx	Bl ¹⁵ Cw ¹⁶	Act At Ep				1200 700 600 20	Pj Fd Others	2.0 1.4 1.0	10,000	1200 3500
1005385				06		Pj ¹ Sx ¹ Fd ^{1,12}	Bl ¹ Cw ¹²	Act	At Ep			1000 500 400 20	Pj Fd Others	1.4 1.0 0.8	10,000	1000 3500
1005386		ICHmn			01			Fd Pj Sx ¹⁶ Cw	Bl ¹⁶ Hw Pw ^{15,17}	At Ep		1200 700 600 20	Pj 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
1005387				02		Fd Pj	Hw Cw Sx					1000 500 400 20	Pj, Fd 1.40 Others 0.80	10,000	1000 3500	
1005388				03		Fd Hw Pj Sx	Bl ¹⁶ Cw	At Ep				1200 700 600 20	Pj 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
1005389				04		Cw ¹⁶ Hw ¹⁶ Sx ¹⁶ Fd ¹⁶	Bl ¹⁶ Pj Pw ^{15,17}	At Ep	Act			1200 700 600 20	Pj, Pw 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
1005390				05		Cw ¹⁶ Hw ¹⁶ Sx ¹⁶ Fd ¹⁶	Bl ¹⁶ Pj Pw ^{15,17}	Act At Ep				1200 700 600 20	Pj 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
1005391				06		Cw ^{1,12} Hw ^{1,12} Pj ¹ Sx ^{1,12,16}	Bl ^{1,12} Pw ^{1,17}	Act				1000 500 400 20	Pj 1.40 Others 0.80	10,000	1000 3500	
1005392				07*		Pj ¹ Sx ¹ Sx ^{1,12,16}						400 200 200 20	Pj 1.40 Others 0.80	10,000	400 3500	
1005393				08*		Cw ^{1,12} Hw ^{1,12} Sx ^{1,12,16}	Bl ^{1,12,16} Pj ¹					400 200 200 20	Pj 1.40 Others 0.80	10,000	400 3500	
1032576		ICHmn			01			Fd Pj Sx ¹⁶ Cw Bl ¹⁶	Hw Pw ^{15,17}			1200 700 600 20	Pj 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
1032577				05		Cw ¹⁶ Hw ¹⁶ Sx ¹⁶ Fd ¹⁶	Bl ¹⁶ Pw ^{15,17}					1200 700 600 20	Pj 2.00 Fd 1.40 Others 1.00	10,000	1200 3500	
16135		ICHmw2			01			Fd Lw	Pj ¹ Cw Pw ^{15,17} Sx ^{15,16}	At Ep	Act	1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16136				01-YS		Fd Lw Cw ^{15,16} Sx ^{15,16}	Hw ^{15,16} Pj ¹ Pw ^{15,17}	At Ep	Act			1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16137				02		Fd Lw Pj ¹	Cw Pw ^{15,17} Sx	At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16138				03		Fd Lw Pj ¹ Sx ^{15,16}	Cw Pw3,15,17 Sx	At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16139				04		Cw Fd ^{15,16} Hw Lw ^{15,16} Sx	Bl Pj ¹ Pw ^{15,17}	Act At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16140				05		Cw ¹⁵ Sx Fd ^{1,12} Lw ^{1,12}	Bl Hw ¹⁵ Pj ¹ Pw ^{15,17}	Act At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
16141				06		Cw ^{1,12} Sx ¹	Bl ¹ Hw ^{1,12} Pj ¹ Pw ^{15,17}	Act	At Ep			1000 500 400 20	Pj, Pw 1.4 Others 0.8	10,000	1000 3500	
16142				07		Cw ^{1,12} Pj ¹ Sx ¹	Bl ¹ Hw ^{1,12}	Act	At Ep			1000 500 400 20	Pj 1.4 Others 0.8	10,000	1000 3500	
1005394		ICHmw2			01			Fd Lw	Pj ¹ Cw Pw ^{15,17} Sx ^{15,16}	At Ep	Act	1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005395				01-YS		Fd Lw Cw ^{15,16} Sx ^{15,16}	Hw ^{15,16} Pj ¹ Pw ^{15,17}	At Ep	Act			1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005396				02		Fd Lw Pj ¹	Cw Pw ^{15,17} Sx	At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005397				03		Fd Lw Pj ¹ Sx ^{15,16}	Cw Pw3,15,17 Sx	At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005398				04		Cw Fd ^{15,16} Hw Lw ^{15,16} Sx	Bl Pj ¹ Pw ^{15,17}	Act At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005399				05		Cw ¹⁵ Sx Fd ^{1,12} Lw ^{1,12}	Bl Hw ¹⁵ Pj ¹ Pw ^{15,17}	Act At Ep				1200 700 600 20	Pw, Lw 2.0 Fd 1.4 Others 1.0	10,000	1200 3500	
1005400				06		Cw ^{1,12} Sx ¹	Bl ¹ Hw ^{1,12} Pj ¹ Pw ^{15,17}	Act	At Ep			1000 500 400 20	Pj, Pw 1.4 Others 0.8	10,000	1000 3500	
1005401				07		Cw ^{1,12} Pj ¹ Sx ¹	Bl ¹ Hw ^{1,12}	Act	At Ep			1000 500 400 20	Pj 1.4 Others 0.8	10,000	1000 3500	

Identification		Situations/ Circumstances of Application				Regeneration Standards										Free Growing Standards			
MOFLNRO ID #	Estab. Obj/ Strat Ref.	Location		Other		Species				Density (well spaced)		FG Date		Species		Height		Density Limits	
		Physical Location/ Geographic	BEC	Zone/SubZone/Var	Site Series	(describe)	Conifers		Broadleaf		Target P&A	Min P&A	Min P	Max (yrs)	Min (m)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph)	(Max sph)	
							Preferred (p)	Acceptable (a)	Preferred (p)	Acceptable (a)									
16143			ICHmw3	1, 01YC		Fd Sx ^{10,13} Cw ^{10,13}	Pi ^{10,13} Bt ^{10,13} Pw ^{10,13} Hw ^{10,13}		At Ep	Act	1200	700	600	20	Pw, Lw	2.0	10,000	1200	3500
16144						Lw ^{10,13} Sx ^{10,13}									Fd	1.4			
16145				02		Fd Pi	Cw ^{10,13} Pw ^{10,13} Py				1000	500	400	20	Others	1.0	10,000	1000	3500
16146				03		Fd ¹⁰ Pi	Cw ^{10,13} Pw ^{10,13} Sx ^{10,13}		At Ep		1000	500	400	20	PI, Pw	1.4	10,000	1000	3500
16147				04		Fd Pi ¹⁰	Bi ^{10,13} Hw				1000	500	400	20	Fd	1.0	10,000	1000	3500
16148				05		Fd Cw ^{10,13} Sx ^{10,13}	Bi ^{10,13} Pi ^{10,13} Pw ^{10,13} Hw		At Ep	Act	1200	700	600	20	Others	0.8	10,000	1200	3500
16149				06		Cw Fd ¹⁰ Hw Sx	Lw ^{10,13} Sx ^{10,13} Bt ^{10,13}		Act At Ep		1200	700	600	20	Pw, Lw	2.0	10,000	1200	3500
16150				07		Cw ¹⁰ Sx Fd ^{10,13}	Bi Hw ¹⁰ Pi ¹⁰ Pw ^{10,13}		Act At Ep		1200	700	600	20	Fd	1.4	10,000	1200	3500
16151				08		Cw ^{10,13} Hw ^{10,13} Pi ^{10,13}	Bi ¹⁰ Pw ^{10,13}		Act	At Ep	1000	500	400	20	Others	1.0	10,000	1000	3500
1005402			ICHmw3	1, 01YC		Fd Sx ^{10,13} Cw ^{10,13}	Pi ^{10,13} Bt ^{10,13} Pw ^{10,13} Hw ^{10,13}		At Ep	Act	1200	700	600	20	Pw, Lw	2.0	10,000	1200	3500
1005403				02		Fd Pi	Cw ^{10,13} Pw ^{10,13} Py				1000	500	400	20	Others	1.0	10,000	1000	3500
1005404				03		Fd ¹⁰ Pi	Cw ^{10,13} Pw ^{10,13} Sx ^{10,13}		At Ep		1000	500	400	20	PI, Pw	1.4	10,000	1000	3500
1005405				04		Fd Pi ¹⁰	Bi ^{10,13} Hw				1000	500	400	20	Fd	1.0	10,000	1000	3500
1005406				05		Fd Cw ^{10,13} Sx ^{10,13}	Bi ^{10,13} Pi ^{10,13} Pw ^{10,13} Hw		At Ep	Act	1200	700	600	20	Others	0.8	10,000	1200	3500
1005407				06		Cw Fd ¹⁰ Hw Sx	Lw ^{10,13} Sx ^{10,13} Bt ^{10,13}		Act At Ep		1200	700	600	20	Pw, Lw	2.0	10,000	1200	3500
1005408				07		Cw ¹⁰ Sx Fd ^{10,13}	Bi Hw ¹⁰ Pi ¹⁰ Pw ^{10,13}		Act At Ep		1200	700	600	20	Fd	1.4	10,000	1200	3500
1005409				08		Cw ^{10,13} Hw ^{10,13} Pi ^{10,13}	Bi ¹⁰ Pw ^{10,13}		Act	At Ep	1000	500	400	20	Others	1.0	10,000	1000	3500
1023583			ICHmw3	01, 04, 05		Fd Sx ^{10,13} Cw ^{10,13} Pi ^{10,13}	Bi ^{10,13} Pw ^{10,13} Hw ^{10,13}				1200	700	600	20	Pw, Lw	2.0	10,000	1200	3500
1025627			ICHmw3	01, 01Y, 05, 06		Fd Sx ^{10,13} Cw ^{10,13} Pi ^{10,13}	Bi ^{10,13} Pw ^{10,13} Hw ^{10,13}				1200	700	600	20	Others	1.0	10,000	1200	3500
1030102			ICHmw3 PI Leading in the Mahood Lake Area	01, 01Y, 05, 06, 07		Fd Sx ^{10,13} Cw ^{10,13} Pi ^{10,13}	Bi ^{10,13} Pw ^{10,13} Hw ^{10,13}				1200	700	600	20	PI, Pw	2.0	10,000	1200	3500
1005410			ICHvk1	01		Cw ¹⁰ Sx Bi ¹⁰	Fd ^{10,13} Sx ^{10,13} Pw ^{10,13}		Act At Ep		1200	700	600	20	Pw	2.0	10,000	1200	3500
1005411				02		Fd ¹⁰ Cw Sx Bi	Hw Pw ^{10,13}		At Ep	Act	1200	700	600	20	Others	1.0	10,000	1200	3500
1005412				03		Cw Fd ^{10,13} Hw Sx Bi ^{10,13}	Pw ^{10,13}				1200	700	600	20	Pw	2.0	10,000	1200	3500
1005413				04		Cw Fd ^{10,13} Hw Sx Bi ^{10,13}	Pw ^{10,13}		Act At Ep		1200	700	600	20	Fd	1.4	10,000	1200	3500
1005414				05		Cw ^{10,13} Sx ^{10,13} Bi ¹⁰	Hw ^{10,13} Pw ^{10,13}		At Ep	At Ep	1000	500	400	20	Others	1.0	10,000	1200	3500
1005415				06		Cw ^{10,13} Hw ^{10,13} Sx ^{10,13} Bi ¹⁰	Pw ^{10,13}		Act	At Ep	1000	500	400	20	Pw	1.4	10,000	1000	3500
1005416			ICHvk1c (cold air drainage)	01		Sx Bi ¹⁰	Pw ^{10,13}				1200	700	600	20	Others	0.8	10,000	1200	3500
1005417				02		Fd ¹⁰ Sx Bi	Pw ^{10,13}				1200	700	600	20	Pw	2.0	10,000	1200	3500
1005418				03		Sx Bi ^{10,13}	Pw ^{10,13}				1200	700	600	20	Others	1.0	10,000	1200	3500
1005419				04		Sx Bi ¹⁰	Pw ^{10,13}				1200	700	600	20	Pw	2.0	10,000	1200	3500
1005420				05		Sx ¹⁰ Bi ¹⁰	Pw ^{10,13}				1000	500	400	20	Others	1.0	10,000	1200	3500
1005421				06		Sx ¹⁰ Bi ¹⁰	Pw ^{10,13}				1000	500	400	20	Pw	1.4	10,000	1000	3500
16152			ICHvk1	01		Cw Fd ^{10,13} Hw Sx	Bi ^{10,13} Pw ^{10,13}		Act At Ep		1200	700	600	20	Others	0.8	10,000	1200	3500
16153				02		Fd Pi ¹⁰ Cw ^{10,13}	Pw ^{10,13} Sx ^{10,13} Hw Bi				1000	500	400	20	Pw	2.0	10,000	1000	3500
16154				03		Fd Cw ^{10,13}	Hw ^{10,13} Pw ^{10,13} Sx ^{10,13}				1200	700	600	20	PI	2.0	10,000	1200	3500
16155				04		Fd ^{10,13} Cw Sx ^{10,13} Hw	Pw ^{10,13} Bi Pi		At Ep	Act	1200	700	600	20	Others	1.0	10,000	1200	3500
16156				05		Cw ¹⁰ Sx Bi Hw ¹⁰	Fd ^{10,13} Pw ^{10,13}		Act At Ep		1200	700	600	20	Pw	2.0	10,000	1200	3500
16157				06		Cw ^{10,13} Sx ^{10,13} Bi ¹⁰ Hw ^{10,13}	Pw ^{10,13}		Act Ep	At	1000	500	400	20	Fd	1.4	10,000	1000	3500
16158				07		Cw ^{10,13} Hw ^{10,13} Sx ^{10,13}	Bi ¹⁰		Act	At Ep	1000	500	400	20	Others	1.0	10,000	1000	3500

Identification		Situations/ Circumstances of Application				Regeneration Standards								Free Growing Standards			
MOFLNRO ID #	Estab. Obj/ Strat Ref.	Location		BEC	Site Series	Other (describe)	Species				Density (well spaced)		FG Date (Max yrs)	Species		Density Limits	
		Physical Location/ Geographic					Conifers	Broadleaf		Target P&A	Min P&A			Min (m)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)	
								Preferred (p)	Acceptable (a)		Preferred (p)	Acceptable (a)					(sph)
1005422			ICHwk1		01		Cw Fd ¹⁴ Hw Sx	Bl ^{15,13} Pw ^{21,87}	Act	At	Ep		Pw 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005423					02		Fd Pl ^{1,32} Cw ^{15,13}	Pw ^{21,87} Sx ^{15,13} Hw Bl					Pl, Pw 1.4 Fd 1.0 Others 0.8	10,000	1000	3500	
1005424					03		Fd Cw ^{15,13}	Hw ^{15,13} Pw ^{21,87} Sx ^{15,13}					Pl 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005425					04		Fd ¹⁴ Cw Sx ^{15,13} Hw	Pw ^{21,87} Bl Pl	At	Ep	Act		Pl, Pw 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005426					05		Cw ³² Sx Bl Hw ²²	Fd ^{14,32} Pw ^{21,87}	Act	At	Ep		Pw 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005427					06		Cw ^{1,32} Sx ¹ Bl ¹ Hw ^{1,32}	Pw ^{1,31,87}	Act	Ep	At		Pw 1.4 Others 0.8	10,000	1000	3500	
1005428					07		Cw ^{1,32} Hw ^{1,32} Sx ¹	Bl ¹	Act	At	Ep		All 0.8	10,000	1000	3500	
16205			MSdm2		01		Pl Sx Fd ^{14,32}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
16206					03		Fd ^{14,32} Pl	Bl ^{15,13} Sx ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
16207					04		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
16208					05		Pl Sx Fd ^{14,32}	Bl Cw ²²	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
16209					06		Pl Sx Fd ^{14,32}	Bl	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
16210					07		Pl Sx	Bl	Act		At		Pl 1.0 Others 0.8	10,000	1000	3500	
1005429			MSdm2		01		Pl Sx Fd ^{14,32}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
1005430					03		Fd ^{14,32} Pl	Bl ^{15,13} Sx ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
1005431					04		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
1005432					05		Pl Sx Fd ^{14,32}	Bl Cw ²²	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
1005433					06		Pl Sx Fd ^{14,32}	Bl	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
1005434					07		Pl Sx	Bl	Act		At		Pl 1.0 Others 0.8	10,000	1000	3500	
16211			MSsk		01		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
16212					02		Pl Fd ^{14,32}	Bl ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
16213					05		Pl Fd ^{14,32}	Bl ^{15,13} Sx ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
16214					06		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
16215					07		Pl Fd ^{14,32} Sx	Bl ^{15,13}					Pl 1.4 Others 0.8	10,000	1200	3500	
16216					08		Pl Sx Fd ^{14,32}	Bl	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
16217					09		Pl ¹ Sx ¹	Bl ¹	Act		At		Pl 1.0 Others 0.6	10,000	1000	3500	
1005435			MSsk		01		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
1005436					02		Pl Fd ^{14,32}	Bl ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
1005437					05		Pl Fd ^{14,32}	Bl ^{15,13} Sx ^{15,13}					Pl 1.0 Others 0.6	10,000	1000	3500	
1005438					06		Pl Fd ^{14,32} Sx ^{15,13}	Bl ^{15,13}	At				Pl 1.4 Others 0.8	10,000	1200	3500	
1005439					07		Pl Fd ^{14,32} Sx	Bl ^{15,13}					Pl 1.4 Others 0.8	10,000	1200	3500	
1005440					08		Pl Sx Fd ^{14,32}	Bl	Act	At			Pl 1.4 Others 0.8	10,000	1200	3500	
1005441					09		Pl ¹ Sx ¹	Bl ¹	Act		At		Pl 1.0 Others 0.6	10,000	1000	3500	
1005442			PPkh2		01		Pw ²¹ Fd ²⁷						All 0.6	10,000	400	3500	
1005443					02*		Pw ²¹ Fd ²⁷						All 0.6	10,000	400	3500	
1005444					03		Pw ²¹ Fd ²⁷						All 0.6	10,000	400	3500	
1005445					04		Pw ²¹ Fd ²⁷						All 0.6	10,000	400	3500	
1005446					05		Fd ²⁷ Pw						All 0.6	10,000	600	3500	
1005447					07		Pl ^{1,32} Sx ¹ Fd ¹	Pw ¹	Act	At			All 0.6	10,000	1000	3500	
1005448			SBSdh		01		Fd Pl Sx	Bl ¹⁵	At	Ep			Pl 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005449					02*		Pl	Sx					Pl 1.4 Sx 0.8	10,000	1000	3500	
1005450					03*		Fd Pl	Pw ^{15,21,87}					Pl, Pw 1.4 Fd 1.0	10,000	1000	3500	
1005451					04		Fd Pl Sx ²⁵						Pl 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500	
1005452					05		Pl	Sb Sx ²²					Pl 2.0 Others 1.0	10,000	1200	3500	
1005453					06		Fd Sx Pl	Bl ¹⁵	At	Ep			Pl 2.0 Fd 1.4 Others 1.0	10,000	1200	3500	
1005454					07		Fd ^{1,32} Pl ¹ Sx ^{1,32}	Bl ^{1,28,32}	Act	At	Ep		Pl 1.4 Fd 1.0 Others 0.8	10,000	1000	3500	
1005455					08*		Pl ¹ Sb ¹ Sx ^{1,32}						Pl 1.4 Others 0.8	10,000	400	3500	

Identification		Location				Situations/ Circumstances of Application				Regeneration Standards				Density (well spaced)				Free Growing Standards			
MOFLNRO ID #	Estab. Obj/ Strat Ref.	Physical Location/ Geographic	BEC	Zone/SubZone/Var	Site Series	Other (describe)	Species		Density (well spaced)		FG Date	Species	Height	Density Limits							
							Conifers	Broadleaf	Target P&A	Min P&A				Min P	Max (yrs)	Pre Space (Max sph)	Post Spacing (w/s) (Min sph) (Max sph)				
							Preferred (p)	Acceptable (a)	Preferred (p)	Acceptable (a)											
			SB5dh		04		Fd PI Sx ¹⁸	Bl ¹⁸ AI Ep			1200	700	600	20	PI 2.0 Fd 1.4 Sx, Bl 1.0 AI Ep 2.0	10,000	1200	3500			
16234			SB5dw1		01		Fd PI Sx ²⁸	Bl ^{18,3}	AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16235					02*		Fd ²¹ PI				1000	500	400	20	PI 1.4 Fd 1.0	10,000	1000	3500			
16236					03		Fd ²¹ PI		AI	Ep	1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
16237					04		Fd ²¹ PI Sx ²⁸		AI		1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
16238					05		Fd PI Sx		AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
16239					06		Fd PI Sx	Bl	Act AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16240					07		Fd ^{1,32} PI Sx	Bl	Act AI	Ep	1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16241 16243					08		Fd ^{1,32} Sx	Bl ¹⁸ PI	Act AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16242 16244					09		Sx ^{1,32} PI ¹	Bl ^{1,32}	Act		1000	500	400	20	PI 1.4 Others 0.8	10,000	1000	3500			
1005456			SB5dw1		01		Fd PI Sx ²⁸	Bl ^{18,3}	AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
1005457					02*		Fd ²¹ PI				1000	500	400	20	PI 1.4 Fd 1.0	10,000	1000	3500			
1005458					03		Fd ²¹ PI		AI	Ep	1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
1005459					04		Fd ²¹ PI Sx ²⁸		AI		1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
1005460					05		Fd PI Sx		AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Sx 1.0	10,000	1200	3500			
1005461					06		Fd PI Sx	Bl	Act AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
1005462					07		Fd ^{1,32} PI Sx	Bl	Act AI	Ep	1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
1005463					08		Fd ^{1,32} Sx	Bl ¹⁸ PI	Act AI Ep		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
1005464					09		Sx ^{1,32} PI ¹	Bl ^{1,32}	Act		1000	500	400	20	PI 1.4 Others 0.8	10,000	1000	3500			
1005465			SB5mc1		01		Fd ^{1,32} PI Sx ²⁸	Bl ¹⁸			1200	700	600	20	PI 1.6 Fd 1.0 Others 0.8	10,000	1200	3500			
1005466					02*		PI	Bl ¹⁸ Sx ²⁸			1000	500	400	20	PI 1.2 Others 0.6	10,000	1000	3500			
1005467					03		Fd PI				1200	700	600	20	PI 1.6 Fd 1.0	10,000	1200	3500			
1005468					04		PI Sx ³²	Bl ³²			1200	700	600	20	PI 1.6 Others 0.8	10,000	1200	3500			
1005469					05		PI Sx ³²	Bl ³²			1200	700	600	20	PI 1.6 Others 0.8	10,000	1200	3500			
1005470					06		Fd ^{1,32} PI Sx	Bl	Act		1200	700	600	20	PI 1.6 Others 0.8	10,000	1200	3500			
1005471					07		Fd ^{1,32} PI Sx	Bl	Act		1200	700	600	20	PI 1.6 Others 0.8	10,000	1200	3500			
1005472					08		Sx ^{1,32}	Bl ^{1,32} PI ¹			1000	500	400	20	PI 1.2 Others 0.6	10,000	1000	3500			
16218			SB5mm		01		PI Sx Fd ^{1,3,32}	Bl ^{1,3}	AI	Act	1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16219					02		PI Fd ^{1,3,32}	Sx ^{1,3}			1000	500	400	20	PI 1.4 Fd 1.0 Others 0.8	10,000	1000	3500			
16220					03		Fd ^{1,3,32} PI	Sx ^{1,3}			1000	500	400	20	PI 1.4 Fd 1.0 Others 0.8	10,000	1000	3500			
16221					04		PI Fd ^{1,3,32}	Sx ^{1,3}			1000	500	400	20	PI 1.4 Fd 1.0 Others 0.8	10,000	1000	3500			
16222					05		PI Fd ^{1,3,32} Sx	Bl ^{1,3}	AI		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16223					06		PI Sx Fd ^{1,3,32}	Bl ^{1,3}	AI		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16224					07		PI Sx Fd ^{1,3,32}	Bl Cw ³²	Act AI		1200	700	600	20	PI 2.0 Fd 1.4 Others 1.0	10,000	1200	3500			
16225					08		PI ¹ Sx ¹	Bl ¹	Act	AI Ep	1000	500	400	20	PI 1.4 Others 0.8	10,000	1000	3500			

Identification		Location				Situations/ Circumstances of Application				Regeneration Standards				Free Growing Standards			
MOFLNRD ID	Estab. Obj/ Strat Ref.	Silv. Physical Location/ Geographic	BEC	Zone/SubZone/Var	Site Series	Other (describe)	Species		Density (well spaced)		FG Date	Species	Height	Density Limits			
							Conifers	Broadleaf	Target P&A	Min P					Min P	Min P	
#							Preferred (p)	Acceptable (a)	Preferred (p)	Acceptable (a)	(sph)						
1005473			SBSmm	01			Pl Sx Fd ^{14,32}	Bl ^{10,13}	At	Act	1200 700 600 20	Pl 2.0 Fd 1.4 Others 1.0	10,000	1200 3500			
1005474				02			Pl Fd ^{14,32}	Sx ^{10,13}			1000 500 400 20	Pl 1.4 Fd 1.0 Others 0.8	10,000	1000 3500			
1005475				03			Fd ^{14,32} Pl	Sx ^{10,13}			1000 500 400 20	Pl 1.4 Fd 1.0 Others 0.8	10,000	1000 3500			
1005476				04			Pl Fd ^{14,32}	Sx ^{10,13}			1000 500 400 20	Pl 1.4 Fd 1.0 Others 0.8	10,000	1000 3500			
1005477				05			Pl Fd ^{14,32} Sx	Bl ^{10,13}	At		1200 700 600 20	Pl 2.0 Fd 1.4 Others 1.0	10,000	1200 3500			
1005478				06			Pl Sx Fd ^{14,32}	Bl ^{10,13}	At		1200 700 600 20	Pl 2.0 Fd 1.4 Others 1.0	10,000	1200 3500			
1005479				07			Pl Sx Fd ^{14,32}	Bl Cw ²²	Act At		1200 700 600 20	Pl 2.0 Fd 1.4 Others 1.0	10,000	1200 3500			
1005480				08			Pl ¹ Sx ¹	Bl ¹	Act	At Ep	1000 500 400 20	Pl 1.4 Others 0.8	10,000	1000 3500			
16226			SBPsmk	01			Fd ^{14,32} Pl Sx		At		1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
16227				02*			Fd ^{14,32} Pl	Sx ²⁸			1000 500 400 20	Pl 1.2 Fd 0.8 Sx 0.6	10,000	1000 3500			
16228				03			Fd ²⁸ Pl		At		1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
16229				04			Fd ^{14,32,32} Pl Sx ²⁸		At		1200 700 600 20	Pl 1.6 Fd 1.0 Others 0.8	10,000	1200 3500			
16230				05			Fd ^{14,32} Pl Sx ²⁸				1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
16231				06			Pl Sx		Act At		1200 700 600 20	Pl 1.6 Sx 0.8	10,000	1200 3500			
16232				07			Sx ^{1,32}	Pl ¹ Bl ^{1,32}	Act At		1000 500 400 20	Pl 1.2 Sx 0.8 Others 0.6	10,000	1000 3500			
16233				08			Sx ^{1,32} Pl ¹	Sb ¹			400 200 200 20	Pl 1.2 Others 0.6	10,000	400 3500			
1005481			SBPsmk	01			Fd ^{14,32} Pl Sx		At		1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
1005482				02*			Fd ^{14,32} Pl	Sx ²⁸			1000 500 400 20	Pl 1.2 Fd 0.8 Sx 0.6	10,000	1000 3500			
1005483				03			Fd ²⁸ Pl		At		1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
1005484				04			Fd ^{14,32,32} Pl Sx ²⁸		At		1200 700 600 20	Pl 1.6 Fd 1.0 Others 0.8	10,000	1200 3500			
1005485				05			Fd ^{14,32} Pl Sx ²⁸				1200 700 600 20	Pl 1.6 Fd 1.0 Sx 0.8	10,000	1200 3500			
1005486				06			Pl Sx		Act At		1200 700 600 20	Pl 1.6 Sx 0.8	10,000	1200 3500			
1005487				07			Sx ^{1,32}	Pl ¹ Bl ^{1,32}	Act At		1000 500 400 20	Pl 1.2 Sx 0.8 Others 0.6	10,000	1000 3500			
1005488				08			Sx ^{1,32} Pl ¹	Sb ¹			400 200 200 20	Pl 1.2 Others 0.6	10,000	400 3500			
1015354			ICHdw3	01, 04			Fd Sx ^{10,13} Cw ^{10,13}	Hw ^{10,13}			1200 700 600 20	Fd 1.4 Others 1.0	10,000	1200 3500			
1015358				03			Fd Cw ^{10,13} Pw ^{21,27} Py	Sx ^{10,13}			1000 500 400 20	Pl Pw 1.6 Fd 1.0 Others 0.8	10,000	1000 3500			
1015369				05			Cw ^{10,13} Sx ^{10,13}	Hw			1200 700 600 20	All 1.0	10,000	1200 3500			
				06,07			Cw Fd ¹⁴ Sx	Hw Bl ^{10,13}			1200 700 600 20	Fd 1.4 Others 1.0	10,000	1200 3500			

Table 11. Uneven-aged Stocking Standards**Uneven-aged Stocking Standards* -- Single-tree selection only**

Target from Table A standards	Layer**	Stocking***		
		TSSpa	MSSpa	MSS p
(stems/ha)		(well-spaced/ha)		
1200	1	600	300	250
	2	800	400	300
	3	1000	500	400
	4	1200	700	600
1000	1	400	200	200
	2	600	300	250
	3	800	400	300
	4	1000	500	400
600	1	300	150	150
	2	400	200	200
	3	500	300	300
	4	600	400	400
400	1	200	100	100
	2	300	125	125
	3	300	150	150
	4	400	200	200

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

**** Stand Layer Definition**

Layer 1	Mature	trees $\geq$ 12.5 cm dbh
Layer 2	Pole	trees 7.5 cm to 12.4 cm dbh
Layer 3	Sapling	trees $\geq$ 1.3 m height to 7.4 cm dbh
Layer 4	Regeneration	trees < 1.3 m height

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

Preferred and acceptable species and "Target from Table A standards" are as specified in Table A by biogeoclimatic ecosystem classification (BEC) site series.

Table 12. Mixed Wood and Broadleaf Stocking Standards

Mixed Wood Stocking Standards*							
TSS from Table A Standards (even aged)	Stocking**						
	TSSpa	MSSpa	MSSp	MSSc			
(stems/ha)	(well-spaced/ha)						
1200	1600	1000	800	600			
1000	1200	700	600	400			
600	800	500	400	400			
400	400	200	200	200			
** pa - preferred and acceptable species; p - preferred species; c - conifers Preferred and acceptable species and "Target from Table A standards" are as specified in Table A by biogeoclimatic ecosystem classification (BEC) site series.							
Broadleaf Stocking Standards							
TSS from Table A Standards (even aged)	Stocking**			Regen Date Max (yrs)	Late Max (yrs)	FG MITD (m)	% Tree over Brush
	Target pa	MIN pa	MIN p				
(stems/ha)	(well-spaced stems/ha)						
1200	2000	1200	1000	4	12	2.0	150
1000	1200	1000	800	4	12	2.0	150
600	1000	500	400	4	12	2.0	150
400	600	400	400	4	12	2.0	150

Footnotes for Stocking Standard Tables

Footnote #	Footnote	Footnote #	Footnote
1	elevated microsites are preferred	47	risk of balsam wooly adelgid
2	suitable on thick forest floors	48	risk of heavy browsing by deer
3	restricted to coarse-textured soils	49	applies only to rust resistant, planted stock
4	restricted to medium-textured soils	50	restricted to sites where the species occurs as a major species in a pre-harvest, natural stand
5	footnote retired	51	restricted to areas with proven PI performance
6	restricted to nutrient-very-poor sites	52	restricted to sheltered microsites with deep soil
7	restricted to nutrient-medium sites	53	minor component
8	restricted to steep slopes	54	risk of unsuccessful release of advance regeneration
9	restricted to southerly aspects	55	acceptable in sx-sm portion of site series
10	restricted to northerly aspects		
11	restricted to crest slope positions		
12	suitable on cold air drainage sites		
13	restricted to upper elevations of biogeoclimatic unit		
14	restricted to lower elevations of biogeoclimatic unit	#	Localized Footnotes
15	restricted to northern portion of biogeoclimatic unit in region	57	Pw rust-resistant stock may be preferred to a max 50% of preferred and acceptable well-spaced stems.
16	restricted to southern portion of biogeoclimatic unit in region		
17	restricted to western portion of biogeoclimatic unit in region		
18	restricted to eastern portion of biogeoclimatic unit in region		
		59	Kamloops Forest District - species is acceptable in Kamloops Forest District only.
		60	Kamloops Forest District - species is preferred in Kamloops Forest District only.
		61	Headwaters Forest District - species is acceptable in Headwaters Forest District only.
		62	Headwaters Forest District - species is preferred in Headwaters Forest District only.
		63	Species is restricted to upper elevations when used in the southern portion of the biogeoclimatic unit.
23	restricted to trial use	64	Lw Restricted to East of North Thompson River and South of 51° 30' Latitude and to a maximum of 25% of TSSpa
24	suitable (as a major species) in wetter portion of biogeoclimatic unit	65	Lw Restricted to a maximum of 25% of TSSpa
27	partial canopy cover required for successful establishment		
28	limited by moisture deficit		
29	risk of heavy browsing by moose		
30	risk of porcupine damage		
31	risk of white pine blister rust		
32	limited by growing-season frosts		
33	footnote retired and replaced with footnote 'a'		
34	risk of snow damage		
35	risk of weevil damage		
37	risk of heart rots		
38	footnote retired		
39	avoid exposed and windy sites		
40	risk of redheart		
41	limited by poorly drained soils		
42	restricted to fresh soil moisture regimes		

5.15A-3 PARTIAL CUTTING STOCKING STANDARDS

The following proposed approach to defining and assessing stocking success in partial cut standards units apply to even-aged silvicultural systems that have retained a minimum of five (5) m^2/ha of residual basal area. Recommended stocking decisions are based on management objectives that are focused toward the production of sawlog timber. Bancroft *et. al.* (2003) and Martin (2004) have completed the initial work associated with the “Deviation From Potential” approach to assessing stocking in complex partially cut stand structures; their work has been incorporated into this proposed approach for Kamloops BCTS – Kamloops TSA.

NOTE: It is important to remember that some of the residual structures that would be accepted using this approach for stocking assessment are below stocking levels that would promote optimal growth where sawlog timber production is the dominant management objective. In many cases, they are intermediate cuts in a silvicultural system. These structures will result in growth losses, relative to TSR expectations, if they are retained for extended periods (Przeczek 2002). Non-timber values that require a partial cutting treatment to achieve short term management objectives (0 – 20 years) will result in stand structures that are appropriate for the use of these standards. **The expectation in these standards units is that additional harvesting with follow-up regeneration treatments will be required in the 20 – 30 year period if base case TSR volume assumptions are to be attained.** If additional harvesting that will promote close to optimal sawlog growth rates does not occur, TSR base case assumptions will need modification. Where non-timber management objectives require the long-term retention of residual structures that are below the minimum stocking line(s) in Figure 2, unique standards will be submitted to the District Manager for approval through a FSP amendment.

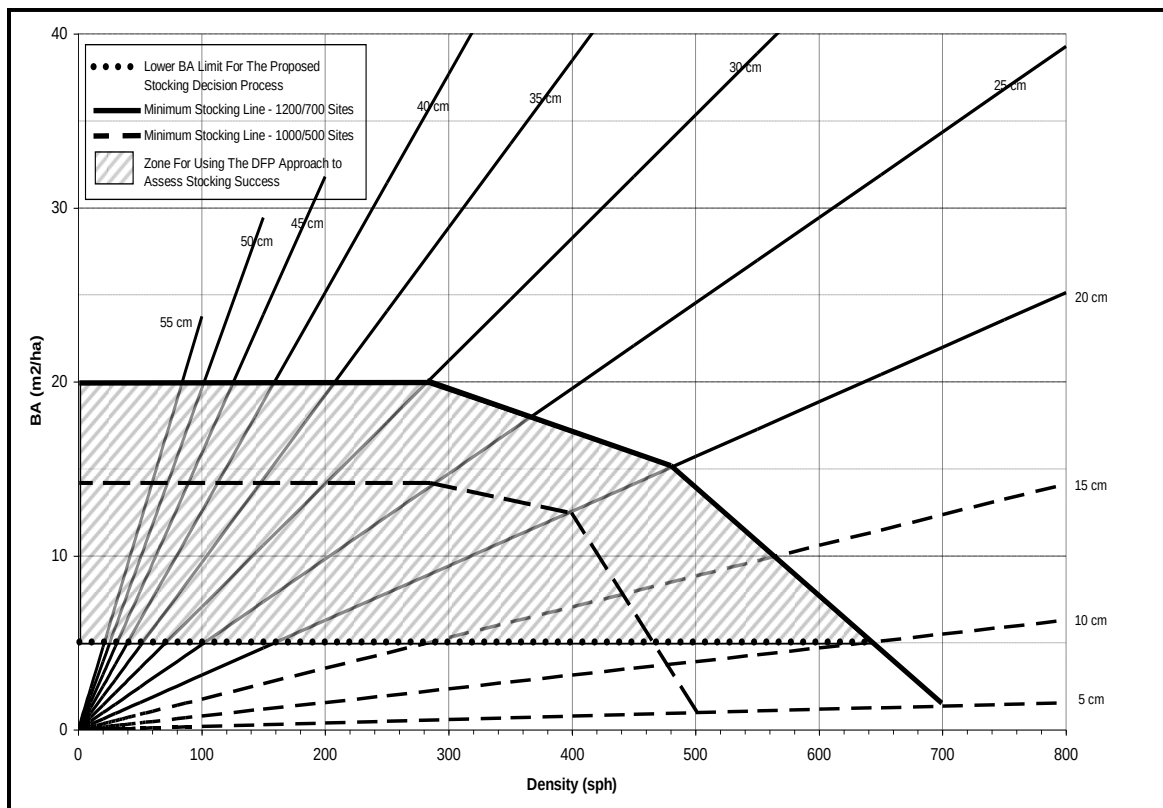


Figure 2. Stocking zone, lower basal area limit, minimum stocking line, and isolines of average stand diameter for assessing partial cut stands in Kamloops BCTS – Kamloops TSA.

Assessment Procedures

Plot assessments will be conducted as per standard even-aged regeneration and free-growing assessments with the following change:

Layer 1 stems (≥ 12.5 cm dbh)

Tally stems by species and diameter class (5 or 10 cm classes are appropriate) using an appropriate prism. Initial indications suggest that a 3 - 5 BAF prism will provide reasonable data for most sites. Tally dead and moribund trees as separate classes (species) but do not include them in basal area summaries for the stand. It will also be necessary to tally acceptable and unacceptable layer 1 stems separately because the minimum stocking line decision is based on acceptable layer 1 stems and the DFP stocking decision requires $\geq 80\%$ of the layer 1 stems to be of acceptable quality; the deviation from potential (DFP) calculation for each plot is based on all layer 1 stems (except for dead and moribund). The more intensive tally of BA will assist with the determination of DFP until surveyors and practitioners become familiar with the system. It will also help with the preparation of more detailed treatment prescriptions where additional overstory manipulation will be required (e.g., harvesting).

Data Compilation

In addition to standard regeneration survey summary information, the following are required:

1. For the minimum stocking line, compute basal area, density, and mean diameter of live acceptable L1 trees.
2. Basal area (m²) and well-spaced sph for each plot will be compared to Table 13 and the DFP will be recorded. The mean DFP will be calculated for each stratum along with the proportion (%) of stocked, partially stocked and open plots¹; and,
3. A stand table (m²/ha) could be prepared for each stratum to assist with decision making but it is not a survey requirement at this time.

Decision Rules

Stocking decisions will be based on the flow chart provided in Figure 3. Figure 2 should be consulted when assessing stocking in these partially cut stands. It uses density (sph), basal area (m²/ha), and isolines of average stand diameter (after Gingrich 1967) as the basis for displaying:

1. **Minimum Stocking Line**
This line represents the lowest residual stocking level of acceptable layer 1 stems (≥ 12.5 cm dbh) that will be considered stocked. If average stocking in a standards unit meets or exceeds the minimum stocking line the SU will be considered SR or FG (if all other species selection, health, size, and damage criteria are met). Two minimum stocking lines are presented; one for sites with 700/1200 even-aged stocking standards and one for sites with 500/1000 even-aged stocking standards.
The deviation from potential stocking (DFP) should also be assessed to ensure that the majority of the standards unit is acceptably stocked ($\geq 60\%$ of the area as determined by the % of plots).
2. **Lower Basal Area Limit**
This line defines the lowest average residual basal area, including all layer 1 stems, (≥ 5 m²/ha) that a standards unit is allowed for the application of this approach to stocking assessment. Standards units with residual basal areas < 5 m²/ha should be assessed with current even-aged stocking standards.

¹ the % of plots calculation is a surrogate for the % of area. If the proportion or distribution of plots does not reflect the area for each DFP stocking class the calculation will be incorrect and another approach to estimating proportional area will have to be documented and applied.

3. Deviation From Potential Stocking Zone

This area of the diagram represents the range of residual stand structures that will require the application of the DFP approach to assessing stocking and free-growing status.

Table 13. Deviation from potential (DFP) volume by understory tree density and overstory basal area.

OS Basal Area (m ² /ha)	Well-spaced trees in plot								
	0	1	2	3	4	5	6	7	8
0	1.00	0.76	0.52	0.34	0.22	0.13	0.07	0.03	0.00
1	0.98	0.74	0.51	0.34	0.21	0.13	0.07	0.03	0.00
2	0.96	0.73	0.50	0.33	0.21	0.13	0.07	0.03	0.00
3	0.93	0.71	0.49	0.32	0.20	0.12	0.07	0.03	0.00
4	0.90	0.68	0.47	0.31	0.20	0.12	0.06	0.03	0.00
5	0.86	0.65	0.45	0.30	0.19	0.11	0.06	0.02	0.00
6	0.82	0.62	0.43	0.28	0.18	0.11	0.06	0.02	0.00
7	0.77	0.58	0.40	0.27	0.17	0.10	0.05	0.02	0.00
8	0.72	0.55	0.38	0.25	0.16	0.09	0.05	0.02	0.00
9	0.67	0.51	0.35	0.23	0.15	0.09	0.05	0.02	0.00
10	0.62	0.47	0.32	0.21	0.14	0.08	0.04	0.02	0.00
11	0.57	0.43	0.30	0.20	0.12	0.07	0.04	0.02	0.00
12	0.52	0.39	0.27	0.18	0.11	0.07	0.04	0.01	0.00
13	0.47	0.35	0.24	0.16	0.10	0.06	0.03	0.01	0.00
14	0.42	0.32	0.22	0.15	0.09	0.05	0.03	0.01	0.00
15	0.38	0.28	0.20	0.13	0.08	0.05	0.03	0.01	0.00
16	0.33	0.25	0.17	0.11	0.07	0.04	0.02	0.01	0.00
17	0.29	0.22	0.15	0.10	0.06	0.04	0.02	0.01	0.00
18	0.26	0.19	0.13	0.09	0.06	0.03	0.02	0.01	0.00
19	0.22	0.17	0.12	0.08	0.05	0.03	0.02	0.01	0.00
20	0.19	0.14	0.10	0.07	0.04	0.02	0.01	0.01	0.00
21	0.16	0.12	0.08	0.06	0.04	0.02	0.01	0.00	0.00
22	0.13	0.10	0.07	0.05	0.03	0.02	0.01	0.00	0.00
23	0.11	0.08	0.06	0.04	0.02	0.01	0.01	0.00	0.00
24	0.09	0.07	0.05	0.03	0.02	0.01	0.01	0.00	0.00
25	0.07	0.05	0.04	0.02	0.02	0.01	0.00	0.00	0.00
26	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00
27	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00
28	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00
29	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Color
Stocking Class
Growth Potential Opportunity**

Open
High potential for additional volume growth
≥ 41% Additional stocking is required where
timber production is the primary management
objective

Partially Stocked
Moderate potential for additional volume
production through additional stocking
21 – 40% Assess options, additional stocking may
be required

Stocked
Low potential for additional growth through
additional stocking
≤ 20% No further treatments required

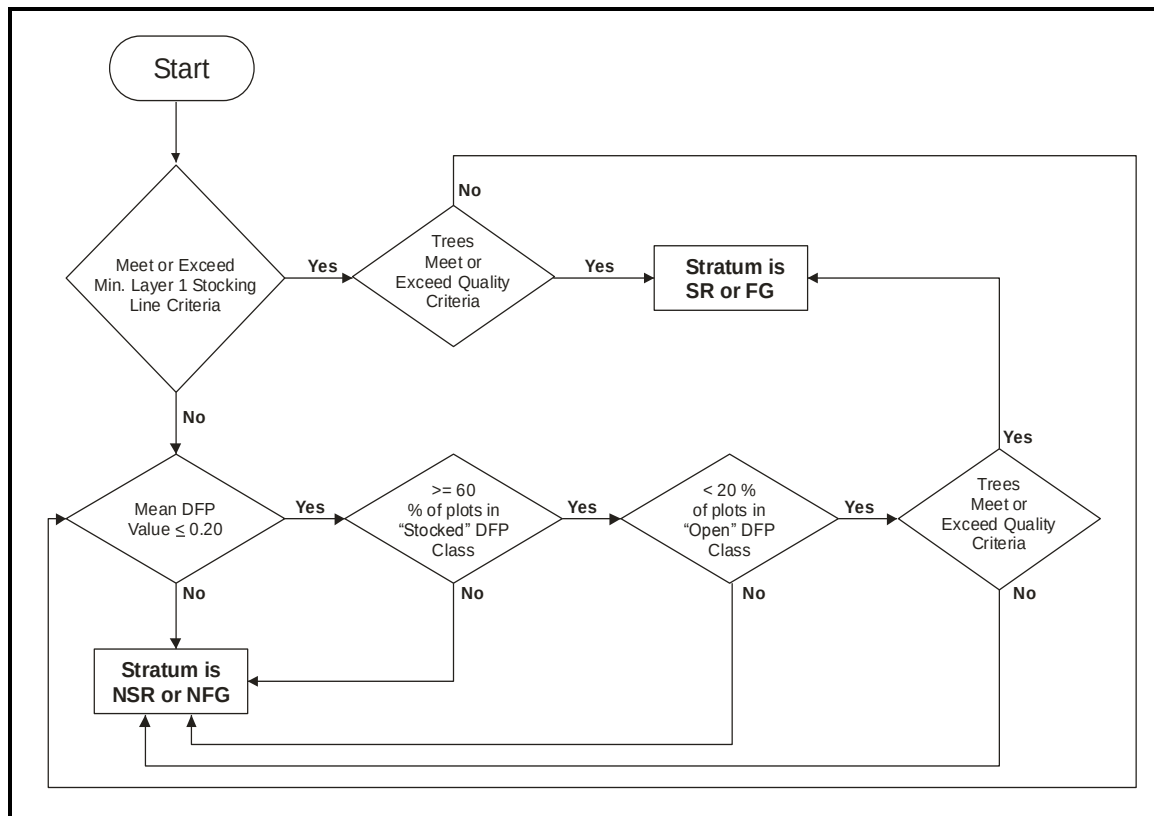


Figure 3. Stocking decision flowchart.

Notes: Many of these stands will have clumped, irregular stocking patterns and the amount of overstory will limit the potential for augmenting stocking through planting. All NSR openings ≥ 1.0 ha, that are not under significant overstory influence, will be reforested.

There may be a limited biological or financial opportunity to increase stocking in some partially cut stands that do not meet the stocking criteria. However, these strata cannot be declared stocked or free-growing; additional harvesting treatments may be required before stocking levels in layer 4 can be augmented.

Proposed Standards

Minimum Stocking Line, DFP, and General Criteria

Table 14 and Table 15 provide a set of proposed standards for partial-cutting in Kamloops BCTS – Kamloops TSA. The standards should be applied to partially cut standards units that were not prescribed for single-tree silvicultural systems, NDT4 ecosystem restoration (open forest or open range), beetle-proofing in lodgepole pine dominated stands, or where management objectives require long term overstory retention and where a reduction in yield is acceptable. These standards should be viewed as a First Approximation and they will be revised as more experience is gained with the system and as better information becomes available.

Table 14. Proposed minimum partial-cutting stocking standards for site series with 700/1200 even-aged stocking standards, for Kamloops BCTS – Kamloops TSA.

Minimum Stocking Line Criteria			Deviation from Potential (DFP) Criteria			General Criteria			
Average DBH (cm) ¹	MSS Density (sph)	MSS Basal Area (m ² /ha)	Maximum Mean DFP	Maximum % Partially Stocked Plots	Maximum % Open Plots	Min. Intertree Distance ²	Regen. Delay (max. yrs.) ³	FG Earliest (yrs.) ³	FG Latest (yrs.) ³
< 12.5			0.20	40	20	n/a + 2.0	1	1	2
15	560	10							
20	480	15							
25	360	17							
30	280	20							
35	210	20							
40	180	20							
45	150	20							
50 - 60	100	20							

Notes:

1. Calculation is based on stems ≥ 12.5 cm dbh; Average DBH is the weighted average for all acceptable stems.
2. No minimum intertree will be applied to layer 1 stems; a 2.0 minimum intertree distance will apply to layer 2, 3, and 4 stems.
3. Timeframes only apply where a stratum is declared SR or FG using the minimum stocking line and were chosen to allow up to 2 years for assessing windthrow damage prior to a free-growing declaration. If the minimum stocking line is not used, time frames will default to even-aged regeneration delay and free-growing delay periods.

Table 15. Proposed minimum partial-cutting stocking standards for site series with 500/1000 even-aged stocking standards, for the Kamloops BCTS – Kamloops TSA.

Minimum Stocking Line Criteria			Deviation from Potential (DFP) Criteria			General Criteria			
Average DBH (cm) ¹	MSS Density (sph)	MSS Basal Area (m ² /ha)	Maximum Mean DFP	Maximum % Partially Stocked Plots	Maximum % Open Plots	Min. Intertree Distance ²	Regen. Delay (max. yrs.) ³	FG Earliest (yrs.) ³	FG Latest (yrs.) ³
< 12.5			0.20	40	20	n/a + 2.0	1	1	2
15	440	8							
20	400	12.5							
25	290	14							
30	200	14							
35	150	14							
40	110	14							
45+	90	14							

Notes:

- (a) Calculation is based on stems ≥ 12.5 cm dbhob; Average DBH is the weighted average for all acceptable stems.
- (b) No minimum intertree will be applied to layer 1 stems; a 2.0 minimum intertree distance will apply to layer 2, 3, and 4 stems.
- (c) Timeframes only apply where a stratum is declared SR or FG using the minimum stocking line and were chosen to allow up to 2 years for assessing windthrow damage prior to a free-growing declaration. If the minimum stocking line is not used, time frames will default to even-aged regeneration delay and free-growing delay periods.

Tree Acceptability Criteria

Table 16 provides a summary of the standards for tree acceptability for regeneration and free-growing assessments.

Table 16. Tree acceptability criteria for the proposed stocking assessment procedure.

Tree Acceptability Criteria	Regeneration Assessment	Free-growing Assessment
Species	All layer 1 stems will be considered as preferred species. Preferred and acceptable species for the site as per current even-aged stocking standards for other layers.	All layer 1 stems will be considered as preferred species. Preferred and acceptable species for the site as per current even-aged stocking standards for other layers.
MSS _p	Preferred species $\geq$ 50% of the well-spaced stocking	Preferred species $\geq$ 50% of the free-growing stocking
Health	Healthy	As per free-growing damage criteria (ETFG Guidebook, Appendix 5) and the Tree Wounding Guidebook. In stands that do not meet or exceed the minimum stocking line, $\geq$ 80% of the TOTAL Layer 1 stems must be of acceptable quality.
Brush		Appropriate conifer/brush ratio (ETFG Guidebook, Appendix 9)
Height	Min. 30 cm	70% of the minimum free-growing height for the species and site
Advanced Regeneration		Advanced regeneration standards (ETFG Guidebook, Appendix 10)
Minimum Intertree Distance	2.0 m, no MITD for layer 1 stems	2.0 m, no MITD for layer 1 stems

References (For Stocking Standards)

- Bancroft, Bryce, Ken Day, Pat Martin, Kim Peel and Ken Zielke. 2003. *Partially Cut: Occupied or Not? What are my options? – A proposed survey approach.* . Unpubl. FIA Rep. for Lignum Limited.
- B.C. Ministry of Forests. 2000. *Establishment to free growing guidebook.* Nelson Forest Region. Rev. ed., Version 2.2. For. Prac. Br., B.C. Min. For., Victoria, B.C. Forest Practices Code of British Columbia Guidebook.
- Gingrich, Samuel F. 1967. *Measuring and evaluating stocking and stand density in upland hardwood forests in the Central States.* For. Sci. 13: 38 – 53.
- Martin, Pat. 2004. *Second approximation of the deviation from potential table.* Unpubl. Information Sheet. 17pp.
- Przeczek, John E. 2002. *Partial Cutting Effects Study: Modeling with Prognosis^{BC} and TASS to Assess Partial Cutting Impacts on Yield in the Invermere T.S.A..* Unpubl. FIA Rep. for Slocan Forest Products Ltd. and Tembec Industries Ltd. 21 pp. + append.

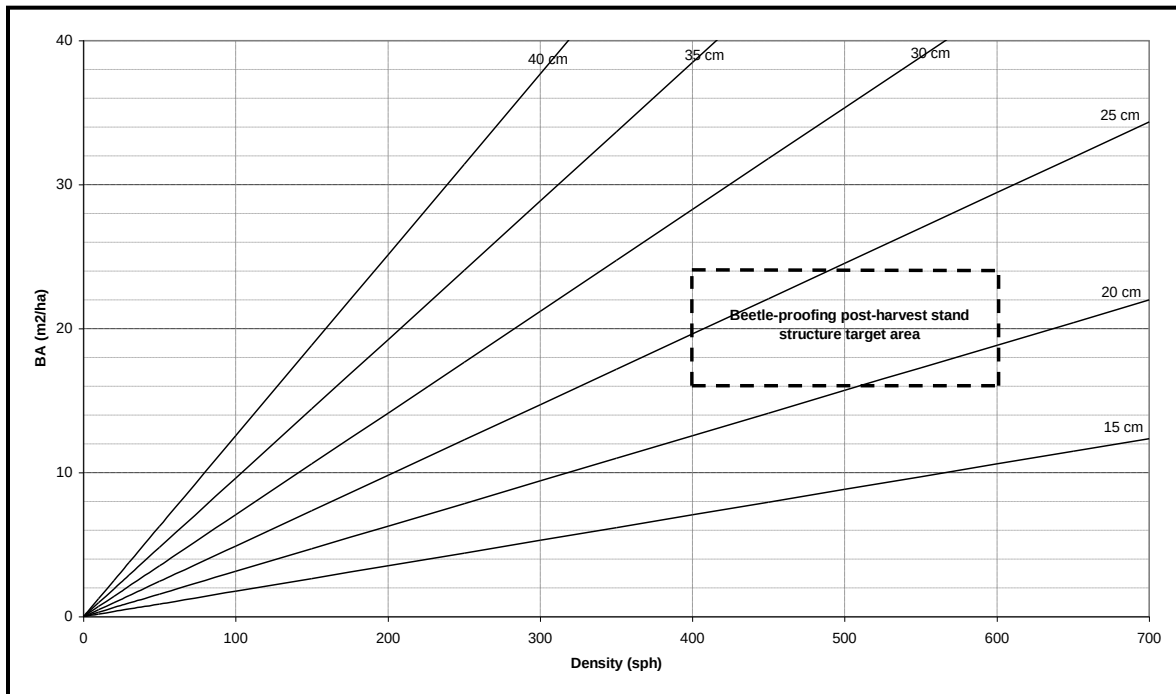


Figure 4. Suggested post-harvest stand structure standards for beetle-proofed lodgepole pine stands in Kamloops BCTS – Kamloops TSA.

APPENDIX B – WALK-IN LAKES**Table 17. Walk-in Lakes in the Kamloops TSA.**

Lake #	Lake Name	Class 1	Access	Comments
773	Copper Lake	A	Maintain walk-in	
850	Lost lake	B	Walk-in	Defer Satellite Lake
874	Moosehead Lake	PA	Easy walk-in	Defer Satellite Lake
821	Grizzly Lake	A	Maintain walk-in	
872	Moose Lake	B	Easy walk-in	Defer Satellite Lake
1298		C	Walk-in	Used by meadow Lake Resort
811	Fourteen Mile	C	Walk-in must be maintained	Wild trout, lake integrity must be maintained
789	Donna Lake	B	Access concerns, walk-in	Wild rainbow, productive
1302	Little Thumb	B	Maintain walk-in access	Wild stock, manage as a group of lakes for access and visuals
511		B	Maintain walk-in access	Manage as a group of lakes with a total chance plan
839	Laurel Lake	B	Maintain walk-in	
934	Thumb lake	A	Maintain walk-in access	Wild stock, VQO is retention
948	Walkin Lake	C	Maintain existing walk-in	
963	Bendelin	C	Potential walk-in	MOE inventory
354	Tortoise lake	C	Walk-in	High priority MOE
1283		B	Maintain walk-in	
1708		C	Maintain walk-in	Swamp complex east of 1283
1012	Trails End Lake	B	Maintain walk-in (1.75km)	Recommend VMZ=C
1015	Boot Lake	B	Maintain walk-in (1.5km)	Recommend VMZ=C
1013	Summit Lake	B	Maintain walk-in (3/4km)	
1287	Gords Lake	C	Keep walk-in access	
1258	Scott	PA/C	Maintain walk-in access	Refer to Nehalliston LRUP, Zone 18 (High Lake), Livestock control concern
1255	Jeremy	PA	Maintain walk-in, road closures	Critical moose population, log after moose hunting season only, WINTER ONLY
1267	Linguist Ch.	B	Maintain walk-in access	Concern over VQO on canoe route
1041	Tibbetts Lake	B	Maintain walk-in access	LMZ=B, LVMZ=C
1678		C	Maintain walk-in	Important drainage for spawning
1266	Linguist Ch.	B	Maintain walk-in access	Concern over VQO on canoe route
1257		C	Maintain walk-in, deactivation	
1265	Linguist Ch.	C	Maintain walk-in access	Concern over VQO on canoe route
1238		C	Maintain existing walk-in	Wild rainbow trout
757	Boulanger Lake	C	Maintain existing walk-in access	
35	Bogmar Lake	C	Walk in	
377	Twin Lake	PA/B	Walk in	In Area "A" Check visual line is at PA bdry, check to see if B is a problem
275	Pothole Lake	B	Concerns, mainly walk-in	wild trout, resort use, just outside area "A"
114	Frankie Lake	PA	Walk in	in Area "A"
1049	Pocket Lake	PA/B	Walk in	
76	Dagger Lake	PA	Walk-in Lake	Within Bonaparte Protected Area
1211	Cherry Lake	PA/B	Walk in	Check visuals, concerned about MOE values, check with BC Parks
1213	Rubber boat	PA/B	Walk in	Review VQO's, Wild trout fishery
1212	Lost	PA		Walk in
88	Donut Lake	B	Walk in	Tropy fish
1697		C+		Maintain walk-in
1198		C+		Walk in
1199		C+		Walk in
843	Little Badger	B	Walk in lake	High recreation, probable beetlw problem, horse logging potential
1196		W		Walk in
1197		W		Walk in
1594		D	Maintain walk-in access	Maintain integrity of area
1130		PA		Walk in
391	Warren Lake	B	Leave as walk-in	find out if lease is walkin, use sec 105 to restrict access, Jennifer will bring 105 bdry to table.
1315	Little Warren	C	Maintain as walk-in	
1111		PA		Walk in
1116		PA		Walk in
1123		D		Walk in
1106		D		Walk in
1086		PA		DU # 92-I-146 Area 7/Walk in
1177		D		DU #92-I-402/Walk in
1185		C		Walk in

APPENDIX C - FOREST STEWARDSHIP PLAN MAPS**Table 18. Landscape Unit Based FDU Maps for the BCTS Kamloops TSA FSP.**

FDU'S	MAP_NO
Upper N. Thompson/Albreda	1
Thunder Blue/Mud	2
Tum Tum/Avola	3
Raft/Clearwater/Vavenby	4
Mad/Mica/Cayenne	5
Nehalliston/Dunn/Darfield/Bonaparte	6
Adams Lake/Barriere	7
Deadman/Tranquille/Skull	8
Heffley/Louis Creek/Lower Adams	9
Lower Bonaparte/Hat Creek/Ashcroft	10
Lac du Bois/Dewdrop/S. Kamloops/Upper Guichon/Stump Lake	11
Campbell	12