

# Okanagan-Columbia Forest Stewardship Plan

This Forest Stewardship plan is applicable to BC Timber Sales', Okanagan Indian Band's (NRFL A91086 and FL A91117) and Cherry Ridge Management Committee's Replaceable Community Forest Agreement (CFA) K3T planning, operations, licenses, and permits within Okanagan Shuswap and Selkirk Natural Resource Districts. Consolidated as of December 20, 2023 to include Minor Amendment #9 for visual quality in selected 2023 fire salvage areas.

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https://www2.gov.bc.ca/gov/content/industry/forestry/bc-timber-sales/fsp/okanagan-columbia-fsp

FSP Term: 10 years (2018-2028)

Commencing: September 1st 2018

FSP ID: 771 Amendment #9

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# Forest Stewardship Plan

# 1.0 Introduction and Interpretation

#### 1.1 Introduction

British Columbia Timber Sales (BCTS), Okanagan Columbia Business Area (TOC) operates in two Forest Districts and three Timber Supply Areas (TSA's) within the Southern Interior Forest Region (SIR). In the Okanagan Shuswap Natural Resource District TOC operates in the Okanagan TSA and in the Selkirk Natural Resource Districts TOC operates in the Golden and Revelstoke TSA's. The administrative and management centre for the business area is the Timber Sales Office (TSO) located in Vernon, BC. There are field teams in Revelstoke and Vernon.

# 1.2 British Columbia Timber Sales Program

BC Timber Sales (BCTS) was founded in 2003 with a mandate to provide the cost and price benchmarks for timber harvested from public land in British Columbia. Through 12 Business Areas and an operational presence in 33 locations, BCTS manages some 20 percent of the provincial Crown allowable annual cut.

Goal: Provide credible representative price and cost benchmark data for the Market Pricing System through auctions of timber harvested from public land in British Columbia.

**Objective:** Sell the full BC Timber Sales' apportionment over the business cycle, consistent with safe practices and sustainable forest management;

- 1. Generate direct net revenue and indirect revenue for the province over the business cycle; and
- 2. Continuous business improvement.

# 1.3 Interpretation

**Definitions under Acts and Regulations:** Unless specifically indicated otherwise, terms used in this Forest Stewardship Plan (FSP) have the same meaning as they are defined in relevant British Columbia Acts and Regulations.

#### 1.4 Definitions Specific to this FSP

- 1. "act" means the Forest and Range Practices Act RSBC 2002, c.69;
- 2. "adjacent" as defined in FPPR 65(1) means "an area that is sufficiently close to a cutblock that, due to its location, could directly impact on, or be impacted by, a forest practice carried out within the cutblock";
- 3. "administrative boundary" means features including but not limited to private property lines, area-based tenure boundaries, protected area boundaries, or boundaries associated with the buffer of an inventory permanent sample plot that may influence primary forest activities;
- 4. "agreement holder" is defined in FPPR section 1 and "means a holder of an agreement under the Forest Act, other than a woodlot licence" and for the purposes of this FSP, applies to the agreement holders listed in section 2.6, or any successor or assignee of that agreement, unless this FSP no longer applies to that agreement holder;
- 5. "basal area" means
  - a) for the purposes of stocking standards, the cross-sectional area per hectare of the crop trees, and
  - b) for the purposes of retention of basal area in the riparian management zone, the cross-sectional area per hectare of standing trees, whether living or dead;
- 6. "BEC" means Biogeoclimatic Ecosystem Classification;
- 7. "**cumulative effects**" means, changes to economic, environmental and social values on the landscape caused by the combined effect of present, past and reasonably foreseeable human actions or natural events.
- 8. "current" means, in the context of a FSP, timber sale licence, FSR or RP, an approved document that has not expired or been replaced;
- 9. "cutblock" means an area:
  - a) in which a holder of a Licence has harvested timber under a timber sale licence; or
  - b) in which a holder of a Licence is authorized to harvest timber but where harvesting has not occurred:
- 10. "damaged timber" means timber that has been or is in imminent danger of being damaged, significantly reduced in value, lost or destroyed due to damage agents such as fire, insect infestation, disease, or wind, as determined by a *qualified professional*.
- 11. "dbh" means diameter breast height, a standard method of expressing the diameter of the bole of a tree, generally measured at a height 1.3 metres above the point of germination.
- 12. "established cutblock" means a cutblock in which one of the following has been met:
  - (i) harvested under a licence to which this FSP applies
  - (ii) declared under this FSP;
  - (iii) identified spatially in the BC Geographic Warehouse as a cutblock:
    - a) harvested under a timber sale licence or major licence to which this FSP does not apply; or
    - b) included in a timber sale licence
- 13. "established road" means a road that has been:
  - (i) constructed under a TSL, FSR or RP issued under or associated with a licence to which this
    - a) FSP applies;
  - (ii) declared under this FSP;
  - (iii) included within a current TSL, FSR or RP issued under or associated with a licence to which this
  - a) FSP applies, whether the TSL, FSR or RP is or is not subject to this FSP; (iv) identified spatially in the BC Geographic Warehouse as a road:
    - a) constructed by a person other than an agreement holder; or
      - b) included within a CP, FSR or RP issued in respect of a Licence to which this FSP does not apply.
- 14. "FDU" means a Forest Development Unit;
- 15. "Forest Act" means the Forest Act R.S.B.C. 1996, c.157;

- 16. "forested area" means a polygon identified in the *VRI* as contributing to the forest management land base, as indicated by the Forest Management Land base Indicator attribute. This attribute indicates whether a polygon is forested or has been forested and is capable of producing a stand of trees. Polygons classified as lakes, rock, alpine, shrub and wetland are not considered forested area.
- 17. "FPC" means the Forest Practices Code of British Columbia Act R.S.B.C. 1996, c. 159 and all regulations there under;
- 18. "FRPA" means the Forest and Range Practice's Act SBC 2002 and all regulations there under;
- 19. "FSP" means a Forest Stewardship Plan;
- 20. **"FSP holder" or "holder"** means the *agreement* holders listed in Paragraph 2.6, or any successor or assignee of that *agreement*, unless this *FSP* no longer applies to that *agreement holder*,
- 21. "GAR" means the Government Actions Regulation B.C. Reg. 582/2004;
- 22. "government" means the government of British Columbia;
- 23. **"initial silviculture activities"** means the latter of site preparation, initial reforestation including tree planting or direct seeding, or debris pile burning;
- 24. "legislated planning date" means:
  - a) subject to Clause (ii), the date 4 months before the date of submission; or
  - b)if an enactment or an objective set by *government* requires that a date different than the date referred to in Clause (i) be applied under this *FSP*, then that different date;
- 25. "licence" means an agreement under the Forest Act;
- 26. "major licence" has the meaning given to it under the Forest Act;
- 27. "main haul roads" means capitalized roads as determined by the Natural Resource Districts.
- 28. "minimum stocking standards" means the minimum stocking standards that apply when
  - a) establishing a free growing stand, or
  - b) meeting the minimum requirements of section 44 (4) [Free growing stands generally]
- 29. "minister" means the minister responsible for the Forest Act and Forest and Range Practices Act, and Forest Planning and Practices Regulation
- 30. "natural Disturbance type 4" means ecosystems with frequent stand-maintaining fires including grasslands, shrubland, and forested communities that normally experience frequent low intensity fires.
- 31. "natural range barrier" a stand of trees or topographic feature that stops or impedes livestock movement to or from an adjacent area.
- 32. "net area to reforest" or "NAR" has the meaning given to it in FPPR section 1 (2);
- 33. **"Old Growth Management Area (OGMA)"** means a non-legal area, spatially identified as an OGMA to meet the objectives specified in the OSLRMP Order establishing provincial non-spatial Old Growth Objectives (June 30<sup>th</sup>, 2004) and is stored in the BC Geographic Warehouse. Changes to this data related to incursion and replacement are housed internally by the holder.
- 34. "OSLRMP" means the Okanagan-Shuswap Land and Resource Management Plan;
- 35. "OSLRMP" "LUO" or "LUO" means the "PROVINCE OF BRITISH COLUMBIA, ORDER OF THE MINISTER OF AGRICULTURE AND LANDS ESTABLISHING OBJECTIVES SET BY GOVERNMENT IN THE AREA COVERED BY THE OKANAGAN-SHUSWAP LAND AND RESOURCE MANAGEMENT PLAN IN THE OKANAGAN SHUSWAP FOREST DISTRICT", established pursuant to section 93.4 of the Land Act, and effective March 1, 2007;
- 36. **"practicable"** means that which is feasible or performable given the relevant circumstances and includes consideration for being both practical and reasonably economically feasible;

- 37. "primary forest activity" has the meaning given to it in FPPR section 1, and "means one or more of the following:
  - (i) timber harvesting;
  - (ii) silviculture treatments: or
  - (iii) road construction, maintenance and deactivation";
- 38. "qualified professional" means a registered member in good standing with a professional association whose training, ability and experience makes the member professionally competent in the relevant area of practice. Where the activities fall within the scope of practice of members of a professional regulatory body this person will be a Qualified Registered Professional.
- 39. "qualified registered professional" means a person who:
  - (i) Has the appropriate education, training and experience to carry out the activity; and
  - (ii) Is a member of, or licensed by, a regulatory body in British Columbia that has the legislated authority to regulate its members' performance of the activity.
- 40. **"range agreement"** means a grazing tenure held by a range agreement holder and issued under the *Range Act* or *Land Act*. Spatial and attribute data for range agreements are housed in the BC Geographic Warehouse.
- 41. **reasonable amount of time for review and comment** means a written referral (either mailed or sent electronically) or advertisement, including a link to a map, provided by the FSP agreement holder with a specified time (either 30 or 60 days, or another time period if agreed to with a First Nation or stakeholder or indicated in an advertisement) allowed for providing comments in order for the comments to be considered.
- 42. "road" has the meaning given to it in FPPR section1;
- 43. "RP" means a road permit;
- 44. "safety hazard" means a situation or circumstance the *holder* determines to be a potential source of harm to workers based on WorkSafe BC regulations and policies, or the general public. Safety hazards include but are not limited to danger trees (snags), inadequate visibility, falling objects, steep slopes, unstable terrain, etc.;
- 45. "scenic area" has the meaning given to it under FPPR section 1;
- 46. **"stubs"** are mature live or dead trees that are either mechanically felled or broken off at least 2.5 m above the ground.
- 47. **"THLB"** means Timber Harvesting Land Base as defined in the Timber Supply Review document for the Timber Supply Areas applicable to this *FSP*;
- 48. "VRI" means Vegetation Resource Inventory, the photo-based inventory data of the BC Provincial forest which is housed in the BC Geographic Warehouse. The VRI data that is relevant to specific *FSP* results or strategies is the version of VRI that is available not less than 18 months prior to cutting authority application or amendment:
- 49. "wildlife habitat area" as defined in FPPR section1 "means a wildlife habitat area continued under section 180 (b) [grand parenting specified designations] of the *Act* or established under the Government Actions Regulation".
- 50. "wildlife tree retention area" means an area occupied by wildlife trees that is located a) in a cutblock, b) in an area that is contiguous to a cutblock, or c) in an area that is sufficiently close to the cutblock that the wildlife trees could directly impact on, or be directly impacted by, a forest practice carried out in the cutblock.

#### 1.5 Acronyms

AOA – Archeological Overview Assessment BA – Basal Area

BCTS – BC Timber Sales BEC – Biogeoclimatic Ecosystem Classification

BG Bunchgrass Biogeoclimatic Zone CHR – Cultural Heritage Resource
DBH – Diameter at Breast Height DFP – Deviation from Potential
ESSF Engelmann Spruce Subalpine Fir ERR's-Enhanced Riparian Reserves

FDU – Forest Development Unit FG – Free Growing

FPC - Forest Practices Code FPPR - Forest Planning and Practices Regulation

FRPA – Forest and Range Practices Act FSP – Forest Stewardship Plan

FSR - Forest Service Road

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

HLP – Higher Level Plan IAPP – Invasive Alien Plant Program

ICH – Interior Cedar Hemlock Biogeoclimatic Zone IDF – Interior Douglas-fir

LRMP – Land and Resource Management Plan
MS – Montane Spruce Biogeoclimatic Zone
NAR – Net Area to Reforest
OGMA – Old Growth Management Area
QP-Qualified Professional

LRUP – Local Resource Use Plan
MSS – Minimum Stocking Standard
NDT4 – Natural Disturbance Type 4
PP – Ponderosa Pine Biogeoclimatic Zone
QRP – Qualified Registered Professional

RMA- Riparian Management Area
RPF - Registered Professional Forester
SU - Standards Unit
TSA - Timber Supply Area
TSL - Timber Sale License
TSM - Timber Sales Manager

TSR – Timber Supply Review VQO – Visual Quality Objective

WTRA's - Wildlife Tree Retention Areas

#### 1.6 References

The following acts, regulations and higher level plan documents are relevant to FSP's and are specifically referenced in this FSP:

Forest Act

http://www.bclaws.ca/civix/document/id/complete/statreg/96157 03

Forest and Range Practices Act (FRPA)

http://www.bclaws.ca/Recon/document/ID/freeside/00 02069 01

Forest Planning and Practices Regulation (FPPR)

http://www.bclaws.ca/civix/document/id/loo83/loo83/12 14 2004

Forest Recreation Regulation (FRR)

https://icw.for.gov.bc.ca/ftp/HFP/external/!publish/FPC%20archive/fpc/fpcaregs/FORREC/FRR.HTM

Government Action Regulation

https://www.for.gov.bc.ca/hth/frpa-admin/frpa-implementation/gar.htm

**Higher Level Plans** 

https://www.for.gov.bc.ca/tasb/slrp.

# 2.0 Forest Stewardship Plan

A FSP is a requirement of the Forest and Range Practices Act (FRPA). The plan is a results based, broad level plan that shows areas of potential forest development activities that may occur over a period of five years. The plan is approved for a five year term with no annual updates and may be extended for up to another five years bringing the total term to ten years. Areas identified in the FSP for development are referred to as FDU's and are described in detail in the FSP document. The FSP is a vehicle by which the holder of the FSP communicates results and/or strategies that will be used to achieve the resource management objectives set by government under *FRPA* in each FDU. Each objective is identified in the FSP document and the results and/or strategies that will be employed to achieve the objective are articulated for the FDU's to which the results and/or strategy pertains. In essence, the results and strategies can be thought of as the "means" that will be used to achieve the "end" where the end is the objective. Following approval of the FSP, the Timber Sales Manager (TSM) can award Timber Sale Licences (TSL's) or issue Road Permits (RP's) on a competitive basis to registrants of the BCTS program. Following the approval of the FSP the District Manager will be the statutory decision maker for cutting authorities applied for by the Okanagan Indian Band (OKIB) or by the Cherryville Community Forest (CCF).

This Forest Stewardship plan does not contain maps depicting the precise location of proposed harvesting or roads. Proposed harvesting and road construction by the Holders of this FSP can be viewed at the following <u>link</u>.

#### 2.1 Various Plans and Legal Framework

Agreement holders are responsible for following several plans that are used to guide their forest management activities. Some of the plans are land use plans, and some are legislated requirements such as an FSP. TOC also has 5 year operational plans which are used as a decision aid for engineering across broad geographical areas.

The primary plans used (if applicable) by the agreement holders are listed in the section 2.2.

### 2.2 Higher Level Plans

A Higher Level Plan (HLP) is a land use plan created for a broad geographic area such as a Timber Supply area (TSA). HLP's are generally the product of organized and focused discussions and negotiation with multiple stakeholders over a long period of time. HLP's are designed to identify the resources in the plan area and zone them spatially. Within a Resource Management Zone (RMZ) objectives are identified as well as strategies to achieve those objectives and activities that are permitted within the RMZ. The legal portion of a HLP is the RMZ and the objectives for that RMZ. The FSP and any plans that flow from the FSP must be consistent with any HLP in effect covering the area where the holder of a FSP proposes to conduct forest activities. TOC, OKIB and CCF are guided by and work towards the spirit and intent of these higher level plans. The Okanagan Shuswap Natural Resource district is guided by the Okanagan Shuswap Land and Resource Management Plan (OSLRMP) and legal direction for this district is found in the Order Establishing Objectives in Okanagan Shuswap LRMP Area. TOC also operates in the Selkirk Natural Resource District and within that district both the Golden TSA and the Revelstoke TSA have

HLP's that TOC is required to be consistent with. In the Golden TSA the HLP is the Kootenay Boundary Land Use Plan Order (KBLUP). In the Revelstoke TSA the HLP is referred to as the Revelstoke Higher level Plan Order (RHLP). The HLP's can be viewed on the Ministry of Forests, Lands, Natural Resource Operations and Rural Development (FLNRORD) website at:

https://www2.gov.bc.ca/gov/content/industry/crown-land-water/land-use-planning/regions

#### 2.3 Submission Date

The date of submission of this FSP is August 24th, 2018.

#### 2.4 Term

The Term of this FSP will be ten (10) years beginning on the Commencement Date of approval by the Delegated Decision Maker (DDM) for the Ministry of FLNRORD or another date specified by the DDM. The original five (5) year term of this FSP has been extended by the DDM for an additional five (5) years from August 31, 2023 to August 31, 2028.

#### 2.5 Commencement Date

September 1, 2018

# 2.6 FSP Holder and Agreement Holders

- 1. The holder of this FSP is the Timber Sales Manager (TSM) for the BC Timber Sales (BCTS) Okanagan-Columbia Business Area. Here after referred to as 'agreement holder' along with the Okanagan Indian Band and the Cherryville Community Forest.
- 2. Okanagan Indian Band Forestry LLP (NRFL A91086 and FL A91117) and Cherry Ridge Management Committee and their Replaceable Community Forest Agreement CFA (K3T) are agreement holders to this FSP.
- 3. For the purposes of FRPA section 3(4), this FSP applies to each timber sale permit or cutting permit issued and each road permit granted:
  - a. on or after the date the term of this FSP commences as specified in Section 2.5;
  - b. within an FDU; and
  - c. in respect of the agreements under the Forest Act and the agreement holders specified in subsection 2 of Section 2.6.

#### 2.7 Forest Development Units and Rationale

FDU's are areas where forest practices will occur over the term of this FSP. FDU's have common sets of objectives, results and/or strategies. FDU's in this FSP are located within the Okanagan Shuswap and Selkirk Natural Resource Districts (**Appendix A**). Boundaries for the FDU's have been categorized under the following:

79 FDU's in total

71 FDU's for TOC operating areas

1 FDU covering Okanagan TSA outside of TOC FDU's

1 FDU covering Revelstoke TSA outside of TOC FDU's

1 FDU covering Golden TSA outside of TOC FDU's

3 FDU's covering TFL 49, TFL 55, and TFL 56

2 FDU's covering TFL 59, TFL 33 where TOC has a set apportionment in these TFL's but no designated operating areas.

The rationale for the 3 large FDU's that cover the OK TSA, Revelstoke TSA and Golden TSA is to provide for improved administrative efficiency for TOC and government, by reducing the number of amendments to the *FSP* to revise FDU boundaries for incidental reasons. Larger FDU's will allow TOC to be able to enter into business to business agreements with First Nations to sell timber sales outside of "normal "operating areas without revising FDU boundaries with an FSP amendment for each agreement. We will be able to more efficiently take part in trade agreements between other licensees, as well as ensure a common set of standards throughout all of our operations for our licensees and contractors.

Where road construction or timber harvesting are considered or planned outside of an agreed to TOC operating area, the agreement holder will enter into consultation, with the respective licence or FSP agreement holder in advance and provide a written referral (either mailed or sent electronically), including a paper map or a link to the associated map.

Appendix A also contains FDU maps identifying the features required by the FPPR (Section 14), where applicable and in effect at the time of FSP submission, as well as other resource and topographic features. Information contained on the FDU maps includes:

- Communities
- Community Forests
- Community Watersheds
- Highways and Major Roads
- Indian Reserves
- Large Lakes, Rivers and Major Streams
- Parks and Protected Areas
- Recreation Sites & Trails
- Private Land
- Scenic Areas and Visual Quality Objectives (VQOs)
- Ungulate Winter Range

- Wildlife Habitat Areas
- Woodlots

# 2.8 Collaboration within Shared Management Units

A "Shared Management Unit" means a portion of a timber supply area that is shared by more than 1 agreement holders where the responsibility to achieve "results" is proportional to each FSP or agreement holder's respective operating areas located within the "shared management unit". Where BCTS or agreement holders under this FSP are operating within the same management unit as other forest licence or agreement holders, to ensure that the potential cumulative impact and consistency of results and strategies are considered, the following strategy will be used.

- 1. As a strategy, within shared management units, where timber harvesting is planned, the agreement holder will on a yearly basis or as operational plans develop provide planning information, offer to exchange information, collaborate and coordinate with each licence or agreement holder, in relation to the following applicable values, to ensure that the objectives set by government for the area will be achieved:
  - a) Old Growth Management Areas
  - b) Visual Quality Objectives
  - c) Connectivity Corridors (Grizzly Revelstoke and Golden).
  - d) Landscape level Patch size Distribution
  - e) Ungulate Winter range
  - f) Fish Habitat in Fisheries Sensitive Watersheds
  - g) Water in Community Watersheds.
  - h) Other Cumulative effects on the landscape

# 2.9 Engagement Strategy

Beyond the legally required FSP, an agreement holder will prepare annual referral packages identifying proposed timber harvesting and road construction plans. The annual referral package is the agreement holder's means of engaging with FN, stakeholders and the public at the operational level. The annual referral package spatially shows the agreement holder's proposed roads and blocks and usually is what most stakeholders and FNs are interested in learning more about. FNs are infoshared/consulted with on all proposed timber development, road construction or deactivation and silviculture treatments which overlap their asserted traditional territory as shown in the Consultative Area Database. Stakeholders are sent referral letters identifying the proposed activities which overlap their areas of interest. The public will be notified of the annual referral package through an advertisement placed in local newspapers. The advertisement will direct interested parties to a web location where they can review the referral package. Interested parties will be given a reasonable amount of time for review and comment. This will be at least thirty days under normal circumstances, or a shorter period for emergency situations such as salvage. Additionally, annual referral packages will be available continuously on the BCTS web address: BCTS TOC Annual Referrals. Annual plans for OKIB and CCF can be obtained by contacting these organizations individually.

The agreement holders of this FSP completed a public review and comment period and those efforts have been documented in a report prepared and submitted in accordance with Section 22(2) of the *Forest Planning and Practices Regulation*. **Appendix B** contains the public review and comment report.

# 3.0 Protection of Cut blocks, Forest Service Roads, Road Permits, and Declared Areas

1. Protection under FRPA Section 196

Under Section 196 of FRPA blocks and roads approved as category "a" under the Forest Practice Code are not subject to further review under this plan.

2. Timber Sale Licences (TSL's), Cutting Permit (CP), Forest Service Roads (FSR) and Road Permits (RP's) in effect (FRPA Section 19, and FPPR Section 14).

This FSP does not apply to TSL's, CPs, FSR's, and RP's issued, granted, or entered into by the agreements holder to this FSP prior to the effective date of this FSP being put into effect. This includes but is not limited to blocks and roads listed in in Appendix C.

3. Declared Cutblocks and Roads FPPR Section 14

Under Section 14 of the FPPR, cutblocks and roads can be declared if all the assessments are complete. Declared cutblocks and roads are listed in Appendix D.

# 4.0 Results and Strategies

#### 4.1 Soils

Legal Reference: FPPR Section 5

**Objective:** 

"To conserve the productivity and the hydrologic function of soils."

Applicable FDU's: All FDU's

# **Results and Strategies**

The agreement holder will comply with the practice requirements for FPPR Sections 35 and 36.

#### 4.2 Wildlife

FPPR Section 7 Species at Risk, Regionally Important Wildlife, Ungulate Winter Range and Wildlife Habitat Areas

#### 4.2.1 Species at Risk

#### **Legal Reference:** FPPR section 7 Wildlife, triggered by a notice provided under FPPR 7(2)

#### **Objective:**

"To conserve sufficient wildlife habitat in terms of amounts of area, distribution of areas and attributes of those areas, for the survival of species at risk, the survival of regionally important wildlife, and the winter survival of specified ungulate species."

Applicable FDU's: Any FDU where suitable habitat is encountered

#### **Definitions**

#### For the purpose of this strategy:

"occurrence site" means the mapped location of an occurrence of one of the section 7 SAR in the Okanagan-Shuswap District that includes but is not limited to the BC Conservation Data Center (CDC) data sets, Federal and Provincial Species at Risk Recovery Efforts data sets, Species at Risk Critical Habitat data sets, EcoCat Ecological Reports Catalogue, and Efauna data sets.

#### **Information**

Notices given under FPPR Section 7(2) specify the amount, distribution and attributes of wildlife habitat required for identified species at risk (SAR), regionally important wildlife, and ungulate species. Orders under the GAR Sections 9 to 13 establish WHA's UWR's and specify GWM's for specific species. In many cases the newer GAR orders establishing WHA's and Government Wildlife Measures (GWM's) have addressed and replaced the requirements of earlier FPPR Section 7(2) notices.

Pursuant to FPPR section 7 (3), the license holder is exempt from the obligation to prepare results or strategies in relation to the objective set out in Section 7 (1) of the FPPR once the established Wildlife Habitat Areas address the amount of area required to meet habitat requirements and specifies GWM's to maintain the identified wildlife within those areas. The species listed in **Table 1** below show the amount of hectares required in order to meet the amount of hectares set out in the Section 7 notice. The interior Western Screech Owl, Lewis's Woodpecker and the Coeur d'Alene Salamander are species where the habitat requirements have been met; therefore, they do not show in the table.

# **Results and Strategies**

- 1. During the planning and development stage of a cutblock, *occurrence sites* of any section 7 species will be identified.
- 2. Where field staff/contractors identify habitat with the attributes described in the section 7 notice, or *occurrence sites* which are outside of the section 7 species WHA's but within the holders FDU, and are likely to be impacted by primary forest activities, at least one of the following options will be followed:
  - a) Reserve the area from harvesting.
  - b) The habitat will be assessed by a *QP* to determine whether it is considered "suitable habitat" and the *QP*'s recommendations will be considered.
- 3. SAR awareness training will be conducted for new BCTS field staff within 1 year of the start of employment and for all field staff every five years, documented in a training record, and include information regarding species identification, management strategies and reporting and, where new information regarding SAR becomes available, field staff will receive awareness training regarding the new information within 1 year;
- 4. Contractors and agreement holders who conduct activities in the field will be provided with an information package regarding the identification and notification requirements for SAR and, through pre-work meetings, site plans and/or support documents, will be advised of:
  - i. the results of any stand level assessment for SAR;
  - ii. the measures or requirements for any applicable SAR, UWRs and WHAs; and
  - iii. how planned primary forest activities will be consistent with the above requirements;

# Section 7 Species at Risk:

# Table 1

Section 7 Species at Risk in the Okanagan-Shuswap District	Suitable Habitat	WHA Remaining (hectares) Ha's remaining to meet the amount of ha's included in the section 7 notice.
Flammulated Owl	Found between 500-1000m in elevation, Mature Douglas-fir forest with scattered large Ponderosa pine, grassy openings, thickets of young trees, snags with woodpecker cavities and large old trees.	540
Fringed Myotis	Caves, mines, rock crevices and cliffs, wildlife trees and buildings. Associated with arid grasslands and ponderosa pine-fire forests.	12
Great Basin Gopher Snake	Prefers open areas, bunch grass, sagebrush and open Ponderosa Forests. Rock and sparsely vegetated rock.	6250
Great Basin Spadefoot	Mainly sagebrush flats, semi-desert shrub-lands, pinyon-juniper woodland. Digs its' own burrow in loose soil or uses those of small mammals. Breeds in temporary or permanent water, including rain pools, pools in intermittent streams, and flooded areas along streams.	200
Spotted Bat	Open and dense conifer forests, deciduous habitats, hay fields, marshes, riparian areas and dry shrub grasslands. Roost in crevices of cliffs or canyon walls. Proximity of roosts to feeding areas and source of water is important.	8
Tiger Salamander (Renamed the Blotched Tiger Salamander)	Inhabit almost any terrestrial habitat as long as it includes the required aquatic breeding habitat, such as a lake, reservoir, permanent and ephemeral pond, or stream pool. They range from warm lowlands to high mountains and spend much of their lives in rodent burrows.	320

# 4.2.2 KBHLPO and RHLPO Wildlife Objectives

# Grizzly Bear Habitat and Connectivity Corridors and Management

Legal Reference: FPPR Section 7

**KBHLPO** (October 26, 2002) Objective 5 for Grizzly Bear Habitat and Connectivity Corridor within the Golden Resource Management zone,

**RHLPO** (March 25, 2002) Objective 4 regarding grizzly bear management within the Revelstoke Resource Management Zone.

**Objective:** "To conserve sufficient wildlife habitat in terms of amounts of area, distribution of areas and attributes of those areas, for the survival of species at risk, the survival of regionally important wildlife, and the winter survival of specified ungulate species."

Applicable FDU's: all FDU's in the Selkirk Natural Resource District

# **Results and Strategies**

#### The Agreement holder will:

- 1. Adopt as a result and strategy Objective 4 Grizzly Bear Management of the RHLPO for the Revelstoke Resource Management zone.
- 2. Adopt the Objective 4 Grizzly Bear Management of the RHLPO for the Golden Resource Management zone, using the BCTS avalanche chute mapping for the Golden TSA. Mapping of important grizzly bear habitat has not been completed; therefore objective 5(1) has not taken effect.
- 3. Adopt as a result and strategy for connectivity corridors Objective 5 (3) from the KBHLPO.

# 4.2.3 Ungulate Winter Range Rocky Mountain Elk, Mule Deer, White Tailed-Deer, Moose, Bighorn Sheep and Mountain Goat.

**Legal Reference:** FPPR Section 7 and Draft Golden Ungulate Winter Range order U-4-007

**Objective:** "To conserve sufficient wildlife habitat in terms of amounts of area, distribution of areas and attributes of those areas, for the survival of species at risk, the survival of regionally important wildlife, and the winter survival of specified ungulate species.

Applicable FDU's: all FDU's in the Golden TSA

# Results and Strategies

#### The Agreement holder will:

1. In relation to the objectives set by government for *Ungulate Winter Range Rocky Mountain Elk, Mule Deer, White Tailed-Deer, Moose, Bighorn Sheep and Mountain Goat*, where the agreement holder harvests a *cutblock*, constructs a road or conducts silviculture treatments within these Ungulate Winter Range Areas will achieve the General Wildlife Measures under Draft U-4-007 Ungulate Winter Range (Golden TSA).

# Wildlife-OSLRMP LUO Wildlife Objectives

#### 4.2.4 OSLRMP LUO Elk Areas

Legal Reference: OSLRMP LUO Objective 6

#### **Objective:**

To maintain congregation areas as shown on Map 6 of the Order and movement corridors between summer and winter ranges for elk.

Applicable FDU's: Naramata, TFL 59-BCTS, Okanagan

#### **Definitions**

#### For the purpose of this strategy:

"elk corridor" means an area identified as Elk Habitat Corridor on the map titled Wildlife-Elk Habitat RMZ Corridor (Appendix E), on page WILDLIFE\_ELK 4-6 of the OSLRMP. (Interpreted as corridors that Elk travel between summer and winter habitats).

"elk congregation area" means an area identified as an Elk Congregation Area on the map titled Wildlife-Elk Congregation Areas (Appendix E), on page WILDLIFE\_ELK 4-7 of the OSLRMP. (Interpreted as Winter areas according to spatial mapping)

"elk areas" means the areas identified as Elk Areas on LUO Map 6 (Appendix E) . (interpreted as Summer areas according to spatial mapping)

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

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

- a) a VRI polygon that:
  - (i) is greater than 0.25 hectares in size;
  - (ii) is Douglas-fir leading;
  - (iii) is age class 8 or older; and
  - (iv) has a crown closure class of 4 or greater.

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

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

# Results and Strategies

- 1. Within Elk Corridors (also referred to as movement corridors and inside the Naramata FDU), the agreement holder will ensure that:
  - a) Timber harvesting will not result in more than 30% of the corridor area being occupied by VRI polygons with a height of less than 3m at any one time.
  - b) Timber harvesting will not result in more than 70 % of the corridor area being occupied by VRI polygons with a height of less than 16 meters at any one time.
  - c) Timber harvesting will not result in a clearcut being greater than 300 meters on any one side (measured from one outside edge to another). Any subsequent blocks will not be placed any

- nearer than 300 meters from the original block unless the regen on the original block has attained an average height of 3 meters.
- d) To maintain the use of elk movement corridors between summer and winter ranges, active road densities should be minimized. Rehabilitate unused roads that are inside the elk corridors. Where practicable, active roads should be a minimum of 500m from the elk corridors. Visual screening of at least 3m tall vegetation should be maintained along active roads.
- 2. Within congregation areas (TFL 59 only and in Winter habitat), that are located outside of the mapped Mule Deer Winter Range do the following:
  - a) Will adhere to the measures specified in the GAR order for Mule Deer Winter Range.
  - b) Where practicable and where suitable stands exist the agreement holder will ensure that Wildlife Tree Retention Areas will be located on rutting areas and wallows that have been identified and mapped and made known to the agreement holder in advance of planned activities.
  - c) Will accomplish, visual screening along main haul roads by;
    - (i) Retaining non-merchantable and non-commercial vegetation, except where removal is necessary to address safety concerns, or where terrain limitations require roadside logging/decking to be conducted on the main haul road.
  - d) To maintain the use of elk congregation areas, active road density should be minimized. Rehabilitate unused roads that are within 100m of a congregation area. Where practicable active roads should be a minimum of 500m from the congregation areas. Visual screening of at least 3m tall vegetation should be maintained along active roads.
- 3. Where the forest cover conditions described in (1) do not exist within an Elk Corridor or Elk Congregation Area located outside of Mule Deer Winter Range:
  - a) Prior to harvesting a cutblock or constructing a road within the Elk Areas, ensure a *QP* completed an Elk Area Habitat Suitability Assessment within the Elk Corridor or Elk Congregation Area; and,
  - b) Where an assessment identifies an opportunity to harvest timber while continuing to maintain sufficient congregation areas and movement corridors between summer and winter ranges for Elk, conduct primary forest activities consistent with the recommendations of the assessment

#### 4.2.5 OSLRMP LUO Marten

#### Legal Reference: OSLRMP LUO Objective 7

#### **Objective:**

The objective for Marten areas shown on Map 7 of the order is to maintain forage, cover, and connectivity for Marten.

Applicable FDU's: Adelphi, Anstey, Banting-Kettle, Barton, Blais, Bolean, Branchflower, Celista, Chase Harper, Cooke, Crazy, Currie, Glen Lake, Graystokes, Harris, Hudson Bay, Hunter Blurton, Ireland, Jackpine, Kal Slopes, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Mellin Windy, Mission, Mugford, Naramata, Old Dave, Paxton, Priest Creek, Ratchford, Ross, Skaha, Skimikin, Smokeyhouse, Stuart Terrace, TFL 33-BCTS, TFL 49, TFL 59-BCTS, Wetask Lake, White Lake, Whitehead, Yard Creek, Okanagan.

#### **Definitions**

#### For the purpose of this strategy:

"marten areas" means the areas identified as Marten Areas on LUO Map 7 (Appendix E).

"Fly Hills Marten RMZ" means the area identified as Marten Habitat on the map (Appendix E) displayed on OSLRMP page WILDLIFE\_MARTEN 4-4.

"Fly Hills Marten RMZ sub-units" means the five mapped sub-units which, when combined together comprise the Fly Hills Marten RMZ, as indicated on the map displayed in Appendix E of this FSP.

"marten corridors" means areas of retention established within the Fly Hills Marten RMZ, consisting of OGMA, Enhanced Riparian Reserve and wildlife tree retention, and managed internally by the agreement holder.

"habitat pile" means an accumulation of woody debris mechanically piled to a height of 2-5m a diameter of 2-5, and includes windrows that are 2-5m tall and not exceeding 50m in length, and are left on site at the conclusion of harvesting or site preparation activities.

# **Results and Strategies**

- 1. If the cutblock is within a marten area, meet the following requirements:
  - a) prior to harvesting the *cutblock*, establish *wildlife tree retention* areas where *practicable* and consistent with section 4.9 within:
    - i. enhanced riparian reserves; as defined in section 4.4
    - ii. riparian management areas; or
    - iii. very xeric to xeric sites within or adjacent to the cutblock or
    - iv. adjacent to OGMA's.
  - b) at the conclusion of harvesting and silviculture treatments, retain basic and enhanced levels of coarse woody debris consistent with section 4.12
- 2. If the *cutblock* is within the *Fly Hills Marten RMZ* (*Skimiken, White lake, and Branch Flower* FDU's) meet all of the following requirements at the conclusion of harvesting and silviculture treatments:
  - a) not cause there to be less than 2300 hectares of marten corridors;

- b) not cause there to be less than 33% of the *forested area* that is within at least 4 of the 5 *Fly Hills RMZ sub-units* to be 19 metres or greater in *height*; or
- c) Where practicable, maintain enhanced levels of CWD in riparian management areas of S5 streams and any S6 streams consistent with section 4.12.
- d) In cutblocks that are greater than 20 hectares located on slopes less than 35%, establish where practicable, for every 20 hectares (NAR) of the cutblock size, no less than 3 habitat piles within 20 meters of the cutblock edge or a riparian management zone.
- e) Where marten corridors have been identified limit new permanent road crossing to 1 crossing per km of corridor and minimize the construction of temporary access structures.
- f) After juvenile spacing or thinning retain at least 10% of the gross area of each treatment unit in a randomly distributed, untreated condition.
- g) Where the forest cover conditions described in (2b) above do not exist within the Fly Hills Marten RMZ:
  - (i)Prior to harvesting a cut block or construction road within the fly hills Marten RMZ, ensure a *QP* completed a Fly Hills Marten RMZ Habitat Suitability Assessment; and
  - (ii) Where the assessment identifies an opportunity to harvest timber while not causing there to be insufficient forest cover suitable for providing for the habitat requirements of Marten, conduct primary forest activities consistent with the recommendations of the assessment.

#### 4.2.6 OSLRMP LUO Fisher Areas

#### Legal Reference: OSLRMP LUO Objective 8

**Objective:** The objective for Fisher areas as shown on Map 8 of the order is to maintain forage, cover and connectivity for Fisher.

**Applicable** FDU's: Anstey, Bolean, Branchflower, Chase Harper, Chum, Coldstream, Cooke, Crazy, Currie, Eagle River, Hlina, Hunter Blurton, Ireland, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Mt. Ida, Paxton, Ratchford, Rose-Swanson, Ross, Sicamous North, Skimikin, Smokeyhouse, TFL 33-BCTS, TFL 49, Wall Creek, White Lake, Yard Creek, Okanagan.

#### **Definitions**

#### For the purpose of this strategy:

"fisher areas" means the areas identified as Fisher Areas on LUO Map 8 (Appendix E)

# **Results and Strategies**

#### The Agreement Holder will:

1. Ensure that, to the extent practicable, basic and enhanced coarse woody debris (CWD) requirements are met within the RMA of each S5 or S6 as per section 4.12.

- 2. On ground skidded areas and to the extent practicable, retain all cottonwoods 75 cm or greater in DBH upon the completion of harvesting. If Cottonwoods are less than 75cm then retain all cottonwoods in the next closest 5cm incremental diameter class to a minimum size of 30cm at stump height.
- 3. To the extent practicable, retain all stands of mature trees of at least 1 ha in area in which greater than 80% of the trees of merchantable size are cottonwood.
- 4. Upon the completion of harvesting and to the extent practicable, retain all deciduous trees of merchantable size (except for Paper Birch species as it seeds prolifically) in the riparian management zones of S1, S2 and S3 streams on each cutblock.
- 5. Where the foregoing of cottonwood and deciduous retention requirements must be supplemented in order to meet minimum wildlife tree retention requirements described elsewhere in this plan, the agreement holder will, to the extent practicable, focus retention on one or more of the following attributes:
  - a) decay class 2 or greater spruce, Douglas fir and cottonwood snags;
  - b) live cottonwoods; and
  - c) riparian management areas.
- 6. In order to retain overhead cover for fisher, the agreement holder will not conduct broadcast brushing or pruning activities in stream riparian management zones unless required to meet regeneration or free growing obligations.

#### 4.2.7 OSLRMP LUO Bighorn Sheep Areas

#### **Legal Reference:** OSLRMP LUO Objective 9

**Objective:** The objective for areas shown on Map 9 (of the Order), is, for the purposes of conserving the suitability of Bighorn Sheep habitat that is not in established deer winter ranges, to retain sufficient forest cover during primary forest activities, including sanitation and salvage activities, to provide for the thermal, snow interception and security requirements of Bighorn Sheep.

**Applicable** FDU's: Chum, Naramata, Skaha, Skimikin, Stuart Terrace, TFL49, TFL 59-BCTS, White Lake, Okanagan

#### **Definitions**

#### For the purpose of this strategy:

"bighorn sheep areas" means the areas identified on LUO Map 9 (Appendix E) of the OSLRMP.

"special features" means open grasslands, mineral licks, rutting areas, lambing areas and loafing sites identified by the ministry responsible for wildlife.

**"bighorn sheep planning cell"** means each spatially separate and distinct portion of the bighorn sheep areas identified on LUO Map 9.

"crown closure" means the percentage of ground area covered by the vertically projected crowns of the tree cover for each tree layer within the polygon and provides an estimate of the vertical projection of tree crowns upon the ground, as confirmed by:

(i) VRI attribute CROWN CLOSURE; or

(ii) a survey of the forested area within the bighorn sheep planning cell that is available to or completed by the agreement holder.

"Derenzy Sheep zone 2" means the area shown on the Derenzy Bighorn Sheep areas on Derenzy Bighorn Sheep Habitat map (Appendix E) of the OSLRMP.

#### **Results and Strategies**

- 1. Prior to initiation of planned activities on a road or cutblock within Bighorn Sheep areas;
  - a) refer a proposed *cutblock* to the ministry responsible for wildlife, requesting that *special features* located within or *adjacent* to the *cutblock* be identified;
  - b) Within a 50m radius of a *special feature* harvesting will be avoided.
- 2. Where *practicable*, maintain 33% of the Bighorn sheep polygon area which lies within FDU's containing BCTS operating area in stands greater than 16meters in height with a crown closure class of 3 or greater.
- 3. Where the forest cover conditions described in (2) above, do not exist within a Bighorn Sheep Planning Cell:
  - a) Prior to harvesting a cutblock or constructing a road within a Bighorn Sheep Planning Cell, ensure a *QP* completes a Bighorn Sheep Habitat Suitability Assessment within the Bighorn Sheep Planning Cell; and
  - b) Where the assessment identifies an opportunity to harvest timber while not causing there to be insufficient forest cover suitable for providing for the habitat requirements of Bighorn Sheep, conduct *primary forest activities* consistent with the recommendations of the assessment.
- 4. Subject to the results and strategies found in section within *Derenzy sheep zone 2*:
  - a) Maintain 33% of the *Derenzy Sheep Zone 2* polygon to a height of 16 meters or greater and a crown closure class of 3 or greater.
  - b) In lodgepole pine dominated stands, utilize a clear-cut with reserves silviculture system with opening sizes of 5 to 20 hectares as per table 1 on page Wildlife Derenzy 4-6 of the OSLRMP, unless the timber harvesting to be carried out is to recover timber damaged by fire, insect, wind or other natural events.
  - c) In Douglas-fir and spruce dominated stands, restrict silviculture systems to small patch cuts or partial retention systems as per table 1 on page Wildlife Derenzy 4-6 of OSLRMP, unless the timber harvesting to be carried out is to recover timber damaged by fire, insect infestation, wind other natural events.

#### 4.2.8 OSLRMP LUO Williamson's Sapsucker

Legal Reference: OSLRMP LUO Objective 11
Objective: To conserve critical breeding habitat.

Applicable FDU's: Skaha, TFL 59-BCTS, Okanagan

#### **Definitions**

#### For the purpose of this strategy:

#### "Williamson's Sapsucker area of occupation" means an area:

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

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

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

# **Results and Strategies**

#### The Agreement holder will:

- 1. Prior to initiation of planned activities on a road or cutblock within a *Williamson's Sapsucker area of occupation*, ensure a *Williamson's Sapsucker primary forest activity design* is completed by a *QP* and the design and recommendations are followed.
- 2. If in the opinion of the *QP* carrying out the *Williamson's Sapsucker primary forest activity design* that the primary forest activity is likely to have an impact on that habitat, the bird, or nest site, then only carry out primary forestry activities that are consistent with the direction provided by the "Best Management Practices for Timber Harvesting, Roads, and Silviculture for Williamson's Sapsucker in British Columbia (February 2014)".

http://a100.gov.bc.ca/pub/eirs/lookupDocument.do?fromStatic=true&repository=BDP&documentId=11942.

# 4.2.9 Wildlife-OSLRMP LUO Road construction (Grizzly Bear, Moose, Mountain Goat, Mule Deer, NDT4 Areas, and Walk-in Lakes)

#### Legal Reference: OSLRMP LUO Objective 10b, Map 10 (Appendix E)

**Objective:** The objective is to limit the adverse impacts of Forest Road Construction on the habitat values of Grizzly Bear, Moose, Mountain Goat, Mule Deer, grasslands and low elevation forests (Ecosystem-Natural Disturbance Type 4).

#### Applicable FDU's:

Grizzly Bear: Adelphi, Anstey, Banting-Kettle, Barton, Big White, Blais, Bolean, Branchflower, Celista, Chase Harper, Chum, Cooke, Crazy, Currie, Eagle River, Echo, Glen Lake, Graystokes, Harris, Hlina, Hudson Bay, Hunter Blurton, Ireland, Jackpine, Kal Slopes, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Mellin Windy, Mission, Mugford, Naramata, Old Dave, Paxton, Priest creek, Ratchford, Ross, Sicamous North, Skaha, Skimikin, Smokeyhouse, Stuart Terrace, TFL33 BCTS, TFL 49, TFL59-BCTS, White Lake, Whitehead, Yard Creek, Okanagan.

Moose: Adelphi, Barton, Blais, Celista, Chase Harper, Crazy, Harris, Hlina, Ireland, Jackpine, Long Ridge, Mellin Windy, Mt.Ida, Mugford, Old Dave, Paxton, Ratchford, Sicamous North, Skaha, Skimikin, Smokeyhouse, Stuart Terrace, TFL 49, TFL 59-BCTS, Wall Creek, White Lake, Okanagan.

Mountain Goat: Crazy, Currie, Skaha, TFL49, TFL59-BCTS, Okanagan.

Mule Deer: Adelphi, Bolean, Branchflower, Chase Harper, Chum, Coldstream, Cook, Crazy, Currie, Eagle River, Echo, Glen Lake, Harris, Hlina, Hunter Blurton, Ireland, Kal slopes, Lamberton, Mara-Sicamous, Mission, Mt. Ida, Mugford, Naramata, Paxton, Priest Creek, Rose-Swanson, Ross, Sicamous North, Skaha, Skimikin, TFL 33-BCTS, TFL 49, TFL59-BCTS, Wall Creek, White Lake, Okanagan.

NDT4- Adelphi, Barton, Bolean, Branchflower, Chase Harper, Coldstream, Currie, Echo, Glen Lake, Harris, Hlina, Hunter Blurton, Ireland, Kal Slopes, Mission, Mt. Ida, Naramata, Paxton, Rose-Swanson, Skaha, Skimikin, TFL 49, TFL59-BCTS, Wall Creek, White Lake, Whitehead, Okanagan.

Walk-in Lakes: Chase Harper, Currie, Graystokes, Harris, Ireland, Kal Slopes, Long Ridge, Mellin Windy, Mission, Old Dave, Skaha, Skimikin, Smokeyhouse, TFL 49, Okanagan.

#### **Definitions**

#### For the purposes of this strategy:

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

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

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

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

- a) North of Highway 6, are identified on the map on page "Wildlife\_Grizzly 4-15" (Appendix E) of the OSLRMP as "High-Moderate" or "High" grizzly habitat suitability
- b) South of highway 6, are identified on the map on page "Wildlife\_Grizzly 4-15" of the OSLRMP as "Moderate", "High-Moderate" or "High" grizzly habitat suitability.

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

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

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

"NDT4 areas" means ecosystems with frequent stand-maintaining fires located within the Ecosystem Management – NDT4 RMZ Map (Appendix E)

area, and identified as the following BEC's:

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

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

# **Results and Strategies**

#### The Agreement holder will:

- 1. Not construct new permanent *road* unless no other practicable option exists:
  - a) critical grizzly bear habitat;
  - b) grizzly bear suitability areas;
  - c) critical moose winter habitat;
  - d) mule deer winter range; or
  - e) *NDT 4 areas*;
- 2. While constructing a new road within:
  - a) critical grizzly bear habitat;
  - b) grizzly bear suitability areas; or
  - c) critical moose winter habitat,
  - d) mule deer winter range; or
  - e) *NDT 4 areas*;

Restrict access to the road so that it is non-passable to a four wheel drive pickup truck within one year of completing initial silviculture activities, and where the use of that road is not necessary to access future timber opportunities.

- 3. If constructing a new road within mountain goat plateau habitat:
  - a) a. Restrict access to the road so that it is non-passable to a four wheel drive pickup truck within 6 months of harvesting completion, and where the use of that road is not necessary on an on-going basis.
  - b) Should that road be reactivated on a short term basis for initial silviculture activities, restrict access within 3 months of the conclusion of the silviculture activity.
- 4. For walk-in lakes:
  - a) within 500meters of a walk-in lake, not construct a permanent road except where no other practicable option exists.
  - b) where construction of a permanent road or a temporary access structure does occur within 500meters of a walk-in lake, minimize the amount of construction to the greatest extent practicable and;
    - (i) not restrict walk-in access to the lake except during temporary closures for road maintenance or repairs.

- (ii) So long as the road is not required to provide access to future *cutblocks*, rehabilitate the temporary access structure or deactivate the permanent road as soon as practicable after the completion of *initial silviculture activities*.
- (iii) Wherever *practicable* locate the road described in (section b) above away from an established trail leading into the walk-in lake.
- (iv) Any *primary forest activities* along a portion of trail that accesses a walk-in lake will ensure that the trail is re-established and clearly marked where *practicable* within 6 months after completion of harvesting or road construction.

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

Legal Reference: FPPR section 8 and 12.1(6)

#### **Objective:**

"To conserve, at the landscape level, the water quality, fish habitat, wildlife habitat and biodiversity associated with those riparian areas."

Applicable FDU's: All FDU's

#### For the purpose of this strategy:

"large S6 stream" means an S6 stream that is greater than 1.5m but less than 3.0m in width.

"small S6 stream" means an S6 stream that is less than 1.5m in width

"Stub" means mature trees that are either mechanically felled or broken off at least 3-5 m above the ground

"Alluvial Fan" means cone-shaped depositional landforms that occur where a stream emerges from the confines of a mountain, or "loses confinement." Sediment is delivered to the channel from erosion within the watershed and transported to the fan by hydro-geomorphic processes (floods, debris floods, and debris flows).

"Machine Free Zone (MFZ)" means a defined area where tracks or wheels of ground based machinery are not permitted except for the purpose of addressing a safety hazard, at a designated stream crossing, or where it is not practicable. The width is to be determined from the edge of the stream bank along both sides of the stream. The purpose of the MFZ is to avoid as much as is practicable machine traffic in order to maintain stream side soil stability and also to minimize impact to the understory vegetation in the riparian area.

#### **Results and Strategies**

- 1. Apply retention strategies within RMZ for streams, wetlands and lakes as outlined in **Table 2** below. The retention targets may be reduced if necessary as determined by a QRP for the following situations:
  - a) Trees that have been wind thrown or have been damaged by fire, insects or disease; or,
  - b) Danger trees; or,
  - c) Trees located within 5 m of either side of a skid crossing; or, within a stream crossing right of way.

Table 2: Riparian Classes and Basal Area % Retention

Riparian Class	Riparian Reserve Zone (m)	Riparian Management Zone (m)	Percent Basal Area Retention (%) within the RMZ
S1-A stream	0	100	≥20
S1-B stream	50	20	≥20
S2 stream	30	20	≥20
S3 stream	20	20	≥20
S4 stream (fish and non-fish bearing)	0	30	>20
S5 stream	0	30	≥10
Large S6 stream (≥1.5 m wide)	0	20	≥10
Small S6 stream (<1.5 m wide)*	0	20	≥0
L1-A (L1-B)	0 (10)	0 (10)	≥10
L2	10	20	≥10
L3	0	30	≥10
L4	0	30	≥10
W1	10	40	≥10
W2	10	20	≥10
W3	0	30	≥10
W4	0	30	≥10
W5	10	40	≥10

<sup>\*</sup>The 100 m of the first reach of a small S6 streams immediately upstream of a fish bearing stream or proximate to a domestic water intake will be managed as a S4 stream with regard to streamside retention.

- 2. During the establishment of the RMZ, retention levels may not be uniformly distributed throughout the RMZ within the cut block, provided that the total retention of the RMZ within the cut-block area is equivalent to that which would have been established using the percent retention specified in Table 2. The intent of this flexibility is to match site specific conditions to provide for the best management of the riparian area whether that be biodiversity objectives, shading, wind-throw or topography.
- 3. To avoid damage to the stream banks and minimize harvesting debris introduced inadvertently into streams, wetlands or lakes, falling, skidding or yarding direction will be away from streams, wetlands and lakes, or parallel to streams, unless unsafe or not practicable to do so. Where falling and yarding away is not practicable, streambank damage will be minimized by following the General Guidelines for "Falling and Yarding" in the Riparian Management Area Guidebook. If a QP determines that excessive harvesting debris accumulations are unduly impeding stream flow and function, debris will be removed from the stream while disturbance to naturally occurring embedded woody material will be minimized.
- 4. Maintain stream bank and stream channel integrity on all streams (excluding NCD's) that do not have a riparian reserve zone by establishing a 5m machine free zone along both sides of streams within harvest areas where ground-based equipment will operate, with the exception of designated stream crossings for skid trails or roads. For winter harvested blocks where a *QP* determines that there is sufficient compressible snowpack to mitigate damage to the stream bank and riparian area, no MFZ will be required.
- 5. Advanced regeneration and understory vegetation, will be retained within the MFZ. For blocks with a ground based harvest system, deciduous trees will also be retained. On blocks using a cable harvesting system where it is not practicable or safe to retain all understorey and advanced regeneration, the agreement holder will minimize damage to understory vegetation and advanced regeneration by following the General Guidelines for Falling and Yarding detailed in the Riparian Management Area Guidebook or through winter harvest where possible. For safety reasons, winter harvest will not occur in avalanche prone terrain.
- 6. Maintain the function of alluvial fans by;
  - a) constructing roads above or below an alluvial fan where practicable. Where roads must be placed on an alluvial fan a *QP* will be engaged with the road design, and their recommendations will be considered for implementation.
- 7. Comply with the practice requirements for stream, wetland, and lake riparian classes as listed in the FPPR 47 (4) to (8) and to 51, 52 (2) and 53 of the FPPR.
  - a) reservoirs: as stated in FRPA section 180 (h) and 181, the Arrow, Revelstoke, Kinbasket reservoirs are greater than 1,000 ha in size and therefore do not require Riparian Reserve Zones.

#### 8. Selkirk Natural Resource District

The following lakes (within this plan's FDUs) are less than 5 hectares in size but have been designated as L1 by the District Manager. All L1 lakes inclusive of those listed on the following table are assigned a 10m riparian reserve zone and 100m lakeshore management zone.

**Table 3** Riparian Reserve and Management Zone for Lakes <5 ha.

Lake Name	RRZ (m)	LMZ (m)	LMA (m)
Echo Lake	10	100	110
Beaver Lake	10	100	110
Begbie Lake	10	100	110
Cranberry Lake	10	100	110
Wetask Lake	10	100	110
Pingston Lake	10	100	110
Jeb Lake	10	100	110
Moose Lake	10	100	110
Dainard Lake	10	100	110

Unless indicated in the preceding table, all L1 lakes in the Selkirk Natural Resource District >5ha <1000ha will utilize a 10m riparian reserve zone and a 100m lakeshore management zone.

For all other classifications of lakes, the riparian zones listed in **table 2** above apply.

## 4.4 OSLRMP LUO Enhanced Riparian Reserves

Legal Reference: (	OSLRMP	LUO objective	10c. Map 10	(Appendix E)
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#### **Objective:**

During primary forest activities, including sanitation and salvage activities, to provide for the conservation of water, fish, wildlife, and biodiversity associated within streams by maintaining enhanced riparian reserves over a total of 10,000 hectares of timber harvesting land base.

Applicable FDU's: All FDU's within the Okanagan Shuswap Natural Resource District

#### **Definitions**

#### For the purpose of this strategy:

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

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

# **Results and Strategies**

#### The Agreement holder will:

- 1. Not cause there to be less than a total of 1861 hectares of enhanced riparian reserve zones inside of TOC Forest Development Units which are designated BCTS operating areas located within the Okanagan Timber Supply Area, and 114 hectares of enhanced riparian reserve zones inside TOC Forest Development Units located within TFL 49.
- 2. Be in communication with other major license holders within the Okanagan TSA to maintain their set ERR targets when operating outside of BCTS operating areas but within the Okanagan FDU.
- 3. Maintain levels of the RMZ basal area retention as specified in Table 2 in Section 4.3 of this FSP

#### 4.5 Water in Community Watersheds

#### Legal Reference: FPPR section 8.2, 59, 60, 61

#### **Objective:**

The objective set by government for water being diverted for human consumption through a licensed waterworks in a community watershed is to prevent the cumulative hydrological effects of primary forest activities within the community watershed from resulting in;

- a. A material adverse impact on the quantity of water or the timing of the flow of the water from the waterworks, or
- b. The water from the waterworks having a material adverse impact on human health that cannot be addressed by water treatment required under
  - i. An enactment, or
  - ii. The licence pertaining to the waterworks.

**Applicable** FDU's: Bolean, Branchflower, Coldstream, Drimmie Creek, Glen Lake, Harris, Hunter Blurton, Jackpine, Kal Slopes, Long Ridge, Mara-Sicamous, Mellin Windy, Mission, Mt. Ida, Mt. Rev Prov. Park, Mugford, Naramata, Priest Creek, Ross, Skaha, Stuart Terrace, TFL 49, TFL 59 BCTS, Wetask Lake, Whitelake, Whitehead, Okanagan, Revelstoke.

#### **Definitions**

#### For the purpose of this strategy:

"community watershed" has the meaning given to it in FPPR section 8.2(1)

- "hydrologic assessment" means a QP assesses the existing and potential landscape level disturbances related effects on water and water related resources conducted at the site or watershed level which will include:
  - a) An overview assessment including creek morphology
  - b) Cumulative effects of past and proposed activities
  - c) Hydrologic risks of proposed development
  - d) Specific recommendations for hazard mitigation
  - e) Specific recommendations to conserve the natural hydrologic conditions, natural stream bed dynamics and integrity of stream channels in the watershed.
  - f) Specific recommendations to conserve the quality, quantity and timing of water flows.

g) Specific recommendations to prevent the cumulative hydrological effects of primary forest activities in the watershed resulting in a material adverse impact.

# **Results and Strategies**

# The Agreement holder will comply with sections 59, 60, 61 of the FPPR and will implement the following;

- 1. For the portion of an FDU that overlaps a *Community Watershed*, where the holder of the plan intends to conduct primary forest activities, a *QP* will assess the risk for those activities potentially causing:
  - a) Material that is harmful to human health to be deposited in or transported from water diverted for human consumption by licensed waterworks; and/or,
  - b) An increase in sediment delivery to the intake or causing sediment that is harmful to human health to enter a stream, lake or wetland for which the water is being diverted for human consumption.

A QP under this section is considered to be a forest professional in charge of timber development with knowledge of the area being considered or access to that knowledge (peers, supervisor).

- 2. If the *QP* 's assessed risk in a community watershed is low based on a review of the scope of the proposed primary forest activity, relevant and available site specific hydrologic information including terrain stability, number of creeks flowing into the stream with the "point of diversion", and the proximity to the RMA, the commitments in (3) below are not required.
- 3. If the risk is moderate or high, based on the same criteria used in (2) above the agreement holder will;
  - a) Ensure that a current hydrologic assessment has been or is carried out by a QP.
  - b) Ensure the primary forest activities are planned and conducted with due consideration to the recommendations of the *hydrologic assessment*.

Generally, a hydrologic assessment will be deemed current if it has been completed within 5 years of the primary forest activities being planned or implemented. An assessment older than 5 years will also be considered current if the primary forest activities being planned or implemented or equivalent were assessed in that hydrologic assessment and no known additional landscape level disturbances that could adversely impact the water resource have occurred in the watershed.

- 4. At the planning and design stage for timber harvesting and road construction, the agreement holder will provide a referral letter to the water licensee, which includes a description of the planned activities and provides a reasonable opportunity for review and comment.
- 5. At least 48 hours before the commencement of any road construction or deactivation in a community watershed, written notification will be provided to the water licensee.

#### 4.6 Fisheries Sensitive Watersheds

**Legal Reference:** Section 14(1) and 14 (2) of the Government Actions Regulations: Order-Fisheries Sensitive Watersheds-Thompson Region dated March 28<sup>th</sup>, 2007 Order-Fisheries Sensitive Watersheds-Okanagan Region dated March 28<sup>th</sup>, 2007

#### **Objective:**

For each Fisheries Sensitive Watershed identified by the Orders, the objective set by government is to:

- (i) Conserve the natural hydrologic conditions, natural stream bed dynamics and integrity of stream channels in the Fisheries Sensitive Watershed,
- (ii) Conserve the quality, quantity and timing of water flows required by fish in the Fisheries Sensitive Watershed, and
- (iii) Prevent the cumulative hydrological effects of primary forest activities in the Fisheries Sensitive Watershed from resulting in a material impact on the fish habitat in the watershed.

**Applicable** FDU's: Anstey, Barton, Blais, Cascadia, Celista, Coldstream, Crazy, Currie, Echo, Harris, Hlina, Hudson Bay, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Ratchford, Skaha, Smokeyhouse, Stuart Terrace, TFL 49, TFL 59-BCTS, Wetask Lake, Yard Creek, Okanagan.

# **Results and Strategies**

- 1. Ensure a *QP* will assess the risk of those activities to ensure that:
  - a) the natural hydrological conditions, natural stream bed dynamics, and integrity of stream channels are conserved.
  - b) the quantity, quality, and timing of water flow required by fish are conserved.
  - c) The cumulative hydrological effects of primary forest activities do not result in material adverse impact on the fish habitat in the watershed.
- 2. If the QP determines the risk is low based on a review of the relevant and available site specific hydrologic information and criteria including terrain stability and the proximity to the RMA, the commitments in 3 are not required.
- 3. If a QP determines the risk is high or moderate based on the same criteria used in 2 (above), the holder of this plan will:
  - a) Ensure that a fisheries sensitive hydrologic assessment has been or is carried out by a QP.
  - b) Ensure the design of cutblocks and roads is consistent with the recommendations of the hydrologic assessment.

#### 4.7 KBHLP Consumptive Use Streams

Legal Reference: Objective 6 of the Kootenay Boundary Higher Level Plan Order

**Objective:** 

Objective 6 of the KBHLP is to reduce the impacts of forest development on streams licensed for human consumption.

Applicable FDU's: Esplanade, Mount Seven, and Golden FDU

# **Results and Strategies**

- 1. Comply with objective 6 of the KBHLP. For each S5 and S6 stream where the specified streamside management zone applies, the agreement holder will plan and implement primary forest activities only if a *OP* determines that implementing the plan:
  - a) will not cause material that is harmful to human health to be deposited in, or transported to, water that is diverted for human consumption by a licensed waterworks; and
  - b) will not damage a licensed waterworks.
  - c) will result in locating stream crossings greater than 100 metres (slope distance) upslope of known intakes,
  - d) will result in the revegetation of cut banks and fill slopes in the management zone where exposed soil exceeds 0.01ha in a contiguous at the earliest opportunity following completion of primary harvesting and no later than one year afterwards.
- 2. At the planning and design stage for timber harvesting and road construction, the agreement holder will provide a referral letter to the licensed domestic water users or their designated group representative, which includes a description of the planned activities and provides a reasonable opportunity for review and comment.

# 4.8 Wildlife and Biodiversity-Landscape Level

Legal Reference: FPPR Section 9

#### **Objective:**

The objective set by government for Wildlife and Biodiversity at the landscape level is, to the extent practicable, to design areas on which harvesting is to be carried out that resemble, both spatially and temporally, the patterns of natural disturbance that occur within the landscape.

Legal Reference: KBHLP Order (Oct, 26, 2002)

#### **Objective:**

To provide for more cost-effective timber harvesting based on Section 68(4) of the Operational Planning

Regulation (OPR), establish the green-up height as 2.5 metres for areas adequately stocked and 3.0 metres for areas not adequately stocked, based on the criteria in the regulations, except in:

i. community watersheds;

ii. visually sensitive areas to be defined and determined by the District Manager, Ministry of Forests (MOF), within known scenic areas as identified in objective 9;

iii. Enhanced Resource Development Zones - Timber as identified in objective 7 and

iv. the specified fire-maintained ecosystems as identified in objective 8(d) and.

To support intensive forest management for the purpose of increasing volumes of merchantable timber and to reduce industry costs while maintaining adequate environmental stewardship Enhanced Resource Development Zones – Timber (ERDZ-T) emphasis is assigned as outlined on map 7.1.

# **Results and Strategies**

- 1. For all FDU's comply with the practice requirements of Sections 64, and 65, of the FPPR, except for Section 65(3) (a) and (b) (ii) where the agreement holder will comply with the following;
  - a) For all other FDUs covered by Kootenay-Boundary Higher Level Plan Order, and those portions of the above FDUs that are either not within Enhanced Resource Development Zones-Timber as per KBHLP Map 7.1, or are within connectivity corridors, a height of 2.5 metres. For those areas of Esplanade, Blackwater Ridge, Bluewater and Goodfellow FDUs within Golden RMZ Enhanced Resource Development Zones-Timber as per KBHLP Map 7.1, the KBHLP Order objective 7(2) is the result and strategy that applies;
  - b) For all FDUs covered by the Revelstoke Higher Level Plan Order, a height of 2.0 metres, as per DCO FSP Stocking Standards Version 3.
  - c) For all FDUs within the Okanagan-Shuswap Natural Resource District a height of 2.0 metres. This is consistent (for the Okanagan-Shuswap District) with the District Manager policy letter dated September 26<sup>th</sup> 2001, which states that "Under the Operational Planning Regulation, Section 68(1), and 68(8), the average height that is required to meet the green-up definition within the Salmon Arm, Vernon, and Penticton Forest Districts is 2.0 meters."
- 3. In the Okanagan Shuswap Natural Resource District we are managing landscape level biodiversity by managing for OGMA Section 4.10 and ERR's Section 4.4. In the Selkirk Natural Resource District, we are managing landscape level biodiversity by managing for OGMA Section 4.10.

# 4.9 Wildlife and Biodiversity-Stand Level

Legal Reference: FPPR Section 9.1

**Objective:** The objective set by government for Wildlife and Biodiversity at the Stand Level is to retain

wildlife trees.

**Applicable FDU's:** All FDU's

## For the purpose of this strategy:

"Render ineffective" means, in the opinion of a QRP, as documented in a Site Plan or Support Document, damaged to a degree that the WTRA or WTP no longer has attributes consistent with a mature or old seral condition and considering the original intent of the WTRA or WTP (if known).

"Highly susceptible" means a susceptibility hazard class of high or very high as indicated by a field assessment or on MFLNRO susceptibility mapping and/or as defined within a MFLNRO Forest Health Strategy and where the timber is within 2 kilometres of a currently infested area.

# **Results and Strategies**

#### **Upon completion of harvest the Agreement holder will:**

- 1. For all FDUs within the Selkirk Natural Resource District comply with the practice requirements for *Wildlife Tree Retention (WTR)* listed in the FPPR section 66.
- 2. For all FDUs within the Okanagan Shuswap Natural Resource District comply with the WTRA requirements set out in **Table 4** (below) which is consistent with the OSLRMP and the wildlife retention targets in the letter from the Okanagan Shuswap District Manager, dated June 20<sup>th</sup>, 2005. **See Appendix F.**
- 3. For any cutblock covered by this FSP in the Okanagan Shuswap Natural Resource District, and harvested during any 12 month period beginning on April 1<sup>st</sup> of any calendar year ensure that at the end of that 12 month period, the total area covered by wildlife tree retention areas that relate to the cutblocks meets or exceeds the requirements set out in **Table 4** (below) for the total gross area of all the cutblocks.
- 4. For any cutblock described in #3 (above), ensure the total amount of wildlife tree retention area that relates to the cutblock is a minimum of 50% of the targets in **Table 4** (below). A wildlife tree retention area may relate to more than one cutblock if all the cutblocks that relate to the wildlife tree retention area collectively meet the applicable requirements of #3 (above).
- 5. As a strategy, in the Selkirk and Okanagan Shuswap Natural Resource Districts, where timber is harvested in a *WTRA* 's or *WTP* and the harvest area is mappable, (greater than 0.25 hectares), and the total area that remains in *WTRA* 's following harvest is less than originally reported size or number of trees of the WTRA or WTP or the % required in section 1 and 2 (above) or is less than

the % required by a former FSP that applied to the WTRA or is less than the % required in WTP's as prescribed in a site plan or silviculture prescription under the FPC.

- a) then a QP will identify one or more replacement WTRA's that provide an area, number of trees or habitat that is at least equivalent or better to the portion of the WTRA or WTP from which timber is being harvested. The WTRA or WTP replacement area or trees will be assessed for equivalency based on area or number of trees, species composition and mature or old seral attributes. The QP will document and map the replacement area in a site plan or support document.
- b) A WTRA or WTP may be reduced in size or number of trees only if there was an over allocation of WTRA or WTP above the % required in section 1 and 2 (above) or the % required by a former FSP that applied to the WTRA or the % required in WTP's as prescribed in a site plan or silviculture prescription under the FPC when reported to Results. The WTRA or WTP can only be reduced in size or number of trees if it can be shown that the WTRA or WTP was originally recorded incorrectly. The reasons for an over allocated WTRA might include other non-wildlife related reasons such as visuals, ECA's, etc. A rationale for reducing the WTRA or WTP size or number of trees will be included in the amended site plan or support document.
- c) Situations when WTRA/Wildlife Tree Patch (WTP) or portions of a WTRA/WTP will be harvested, will only include one or more of the following conditions:
  - a) to facilitate harvesting of a cutblock for tail holds, guy line tiebacks, designated skid trails or yarding corridors;
  - b) to address safety hazards;
  - c) where timber is damaged as a result of wind, fire or forest health factors and, in the opinion of a QRP, the WTRA or WTP is rendered ineffective;
  - d) where timber is highly susceptible to insect damage; and/or
  - e) to facilitate road construction or address operational constraints to cable yarding, where there is no other practicable option, or where another option would result in greater risk to one or more FRPA Values.
- 6. For FDU's within the Okanagan Shuswap Natural Resource District, establish *WTRA*'s that are spatially distributed, no more than 500 meters distance from any other established *WTRA*'s or standing timber

Table 4: Wildlife Tree Retention % by LU and BEC subzones in the Okanagan Shuswap District

	Wil	dlife Tree Reten	tion % by LU	and BEC subzo	nes in the Okan	agan Shuswap Distri	ct	
LU Name	BEC SubZone	Retention %	LU Name	BEC SubZone	Retention %	LU Name	BEC SubZone	Retention %
Anstey	ESSFwc	5	Kettle	IDFdm	8	Harris	ESSFdc	7
Anstey	ICHmw	3	Kettle	MSdm	11	Harris	ESSFxc	6
Anstey	ICHvk	7	Penask	ESSFdc	10	Harris	ICHmk	9
Anstey	ICHwk	7	Penask	ESSFxc	9	Harris	IDFmw	7
Anstey TFL	ESSFwc	9	Penask	IDFdk	8	Harris	IDFxh	7
Anstey TFL	ICHmw	8	Penask	MSdm	9	Harris	MSdm	10
Anstey TFL	ICHwk	10	Penask	MSxk	7	Mabel	ESSFdc	10
Crowfoot	ESSFwc	10	Trepanier	ESSFxc	10	Mabel	ESSFwc	8
Crowfoot	ICHmw	9	Trepanier	IDFdk	5	Mabel	ICHmw	8
Crowfoot	ICHwk	11	Trepanier	IDFmw	7	Mabel	ICHwk	9
Crowfoot	IDFmw	4	Trepanier	IDFxh	4	Mabel	IDFmw	6
Kingfisher	ESSFvc	7	Trepanier	MSdm	6	UpperKettle	ESSFdc	8
Kingfisher	ESSFwc	7	Trepanier	MSxk	4	UpperKettle	ESSFwc	8
Kingfisher	ICHmk	4	Trepanier	PPxh	2	UpperKettle	ICHmk	10
Kingfisher	ICHmw	8	Trout	ESSFxc	6	UpperKettle	ICHmw	8
Kingfisher	ICHvk	6	Trout	IDFdk	7	Vernon	ESSFdc	0
Kingfisher	ICHwk	7	Trout	IDFxh	3	Vernon	ESSFxc	9
Kingfisher	IDFmw	4	Trout	MSdm	8	Vernon	IChmk	8
Eagle	ESSFvc	4	Trout	MSxk	7	Vernon	ICHmw	7
Eagle	ESSFwc	9	Trout	PPxh	3	Vernon	IDFmw	6
Eagle	ICHmw	6	Penticton	BGxh	0	Vernon	IDFxh	2
Eagle	ICHvk	7	Penticton	ESSFdc	8	Vernon	MSdm	10
Eagle	ICHwk	7	Penticton	IDFdm	7	Vernon	PPxh	0
Pukeashun	ESSFwc	8	Penticton	IDFxh	4	UpperSalmon	ESSFdc	9
Pukeashun	ICHmk	7	Penticton	MSdm	9	UpperSalmon	ESSFxc	8
Pukeashun	ICHmw	7	Penticton	PPxh	3	UpperSalmon	ICHmk	6
Pukeashun	ICHwk	10	Mission	ESSFdc	8	UpperSalmon	IDFdk	6
Pukeashun	IDFmw	5	Mission	ESSFxc	4	UpperSalmon	IDFmw	4
Salmon Arm	ESSFdc	11	Mission	ICHmk	8	UpperSalmon	IDFxh	3
Salmon Arm	ICHmk	7	Mission	IDFmw	7	UpperSalmon	MSdm	7
Salmon Arm	ICHmw	7	Mission	IDFxh	2	UpperSalmon	MSxk	7
Salmon Arm	IDFdk	7	Mission	MSdm	10	UpperShuswap	ESSFwc	5
Salmon Arm	IDFmw	7	Mission	PPxh	4	UpperShuswap	ICHmw	7
Salmon Arm	IDFxh	6	White	ESSFwc	9	UpperShuswap	ICHvk	1
Salmon Arm	MSdm	8	White	ICHmw	7	UpperShuswap	ICHwk	4
Seymour	ESSFvc	4	White	ICHwk	9	Okanagan Westside	ESSFdc	12
Seymour	ESSFwc	7	White	IDFmw	4	Okanagan Westside	ESSFxc	12
Seymour	ICHmw	7	Cherryville	ESSFdc	6	Okanagan Westside	ICHmk	7
Seymour	ICHvk	6	Cherryville	ESSFwc	5	Okanagan Westside	IDFdk	6
Seymour	ICHwk	8	Cherryville	ESSFxc	8	Okanagan Westside	IDFmw	5
Kettle	ESSFdc	8	Cherryville	ICHmk	8	Okanagan Westside	IDFxh	6
Kettle	ESSFxc	8	Cherryville	ICHmw	6	Okanagan Westside	MSdm	10
Kettle	ICHmk	10	Cherryville	IDFmw	6	Okanagan Westside	MSxk	5

# 4.10 Old Growth Management

**Legal Reference:** Forest Practice Code of BC Act. Order establishing provincial non-spatial Old Growth Objectives (June 30<sup>th</sup>, 2004).

**Objective:** The objective set by government for Wildlife and Biodiversity is to contribute to the conservation of biodiversity by maintaining old forest by biogeoclimatic (BEC) variant within each landscape unit according to the age of forest and the percent of old forest retention specified in the tables within the order.

Legal Reference: KBHLP Order (Oct, 26, 2002)

# **Objective:**

The objective set by government for Wildlife and Biodiversity is to contribute to the conservation of biodiversity, maintain mature forests in those areas identified in objective 2 (2) and old forests to the level indicated in tables 2.1 to 2.5 to all landscapes units and associated biodiversity emphasis as defined in objective 1".

Legal Reference: RHLP Order (March 25, 2005), RHLP Order Amendment 2 (December 16<sup>th</sup>, 2011)

**Objective:** The objective set by government for Wildlife and Biodiversity is to contribute to the conservation of biodiversity, maintain old seral forests to the levels indicated in tables 2.1, 2.2, and as specified in subsection (b). Requirement levels are to be met at the biogeoclimatic subzone variant level using the variants mapped on page 2.1.

# **Results and Strategies**

- 1. Adopt the spatially identified non-legal *OGMA*'s as per the order establishing provincial non spatial Old Growth Objectives (June 30<sup>th</sup>, 2004) for all FDU's as OGMA's under this FSP.
- 2. For all FDU's within the Okanagan Shuswap Natural Resource District, the Establishing Provincial Non-spatial Old Growth Objectives Order objectives 1 3 are the results and strategies that apply prior to harvesting.
- 3. For all FDU's within the Golden TSA, the KBHLP Order objectives 1 and 2 are the results and strategies that apply prior to harvesting.
- 4. For all FDU's contained within the Revelstoke TSA, Cascadia, TFL 55 and TFL 56, the RHLP Order objectives 1 and 2 are the results and strategies that apply prior to harvesting.
- 5. Not construct road or harvest timber in an *OGMA* except where the incursion is to:
  - a) adjust for mapping areas so that the functional boundaries of the *OGMA* better reflects the physical features intended as the boundaries for the area such that the remaining area reflects wind firmness;
  - b) improve harvest boundary alignment in a way that contributes to the maintenance of the *OGMA*;
  - c) shift the location of the contiguous area of the *OGMA* to improve the retention of old forest attributes as identified through field assessment;
  - d) relocating the OGMA to capture old growth and/or biodiversity values (e.g. where old seral or biodiversity values outside of an OGMA are found to exceed old seral or biodiversity values inside);

- e) where there exists a compelling rationale to harvest and the incursion is minimal or an ecologically equivalent (equal or better old seral and biodiversity values) replacement opportunity exists;
- f) address a substantiated forest health factor within an *OGMA*, where this poses a significant and substantiated forest health risk to forests outside the *OGMA* and where harvesting constitutes an appropriate and effective control action;
- g) address a public or industrial safety concern or an environmental hazard, where no alternative exists; and,
- h) allow for road development and maintenance where there are no other practicable options
- 6. For all FDUs, if the area of disturbance caused by (5) above, should exceed 10% of the *OGMA*'s area or 10 hectares, whichever is less, a *QP* will prepare a rationale prior to constructing road or harvesting timber that:
  - a) describes the reason for the incursion, and
  - b) identifies and reserves from harvest an alternate area (or areas) that is
    - (i) equal or greater in total size to the area(s) being disturbed
    - (ii) equal or has greater retention of the key old forest attributes that are understood to be important for biodiversity conservation than the *OGMA* area(s) being replaced.
    - (iii) For all FDUs in the Golden TSA, also considers the factors identified in KBHLP Footnote k.
    - (iv) either within the proponent licensee's operating area, or within another licensee's operating area where agreeable to the other licensee;
- 7. For FDUs, if the area of disturbance caused by (5) above, should not exceed 10% of the *OGMA*'s area or 10 hectares, whichever is less:
  - a) maintain a record of the area of disturbance, and
  - b) prior constructing road or harvesting timber, identify and reserve from harvest an alternate area (or areas) that is
    - (i) equal or greater in total size to the area(s) being disturbed
    - (ii) equal or greater retention of the key old forest attributes that are understood to be important for biodiversity conservation than the *OGMA* area(s) being replaced.
    - (iii) For all FDUs in the Golden TSA, also considers the factors identified in KBHLP Footnote k.
    - (iv) either within the proponent licensee's operating areas, within a protected area or within another licensee's operating area where agreeable to the other licensee.

- 8. For all FDUs within the Selkirk and Okanagan Shuswap Natural Resource Districts, use the following criteria set out in the Old Growth Management Area Guidance for the Thompson Okanagan (August 2007) when selecting a replacement *OGMA*: (See Appendix G).
  - a) is equal in size, shape, age, connectivity and interior habitat should approximate or be an improvement upon the original *OGMA*;
  - b) replacement *OGMA* 's should provide equivalent biogeoclimatic representation to the subzone level as the original *OGMA*;
  - c) the site units of the replacement *OGMA* (e.g. moist to dry, slope, aspects and tree species) should be similar to the original *OGMA*.
  - d) present and future forest health conditions should be considered when selecting replacement areas. Avoid stands that have or are likely to have forest health problems.
  - e) transfers should not result in new *OGMA* 's in areas with higher levels of human disturbance;
  - f) For all FDUs within the Golden TSA, also considers the factors identified in KBHLP Footnote k.

Transfers should be made within landscape unit or between adjacent landscape units. Overall targets across the planning area should be maintained. Distance between the original and replacement *OGMA* should be minimized.

- 9. Annually (by December 31<sup>st</sup>) save file(s) containing only the modified *OGMA* portions within the Okanagan TSA to the DOS FTP site. The file(s) will contain only the relevant added or deleted areas along with the appropriate attribute data.
- 10. For all OGMA boundary and location changes within the Selkirk Natural Resource District, maintain a digital file tracking changes and, upon request, digital information will be provided to the MFLNRORD.

KBHLP Footnote "k": Where a registered professional forester determines that a forest stand has sufficient

biological value to be a mature or old considering the stand age, successional status, presence of old growth attributes, size of stand (ha), the amount of human impact, dispersion/connectivity of the stand and rarity of the stand; that stand may be used in meeting the targets as opposed to solely using age.

# **4.11 Basic Coarse Woody Debris**

# Legal Reference: Section 93.4 of the Land Act, OSLRMP LUO Objective 1, FPPR section 68

**Objective:** The objective for areas shown on Map 1 (of the Order)(Appendix E), is for the purposes of conserving soil, wildlife habitat and biodiversity at the stand level, to retain basic levels of coarse woody debris, including but not limited to: stub trees, standing trees, firmwood reject logs, and poor quality grade 4 logs across sites subject to timber harvesting.

**Applicable** FDU's: Adelphi, Banting-Kettle, Barton, Big White, Bolean, Branchflower, Celista, Chase Harper, Chum, Coldstream, Currie, Echo, Glen Lake, Graystokes, Harris, Hudson Bay, Hunter Blurton, Ireland, Kal Slopes, Mara-Sicamous, Mellin Windy, Mission, Mugford, Naramata, Old Dave, Paxton, Priest Creek, Rose Swanson, Skaha, Stuart Terrace, TFL 33-BCTS, TFL 49, TFL 59-BCTS, White Lake, Whitehead, Yard Creek, Okanagan.

#### **Definitions**

#### For the purpose of this strategy:

"mature tree" is a lodgepole pine tree greater or equal to 12.5cm dbh, or another trees species greater or equal to 17.5cm dbh that is either dead or alive

# **Results and Strategies**

#### The Agreement holder will at the completion of harvest:

- 1. If conducting ground based harvesting on a cutblock with an average slope of less than 35% on which a broadcast burn is not carried out:
  - a) retain any combination averaging at least 2 per hectare of:
    - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
    - (ii) any standing mature live or dead tree species
    - (iii) tree pieces consisting of portions of mature trees at least 3m long and at least 12.5cm diameter. (OSLRMP indicates 25cm DBH, yet some BCTS operating areas have timber types where the average DBH is 15cm or less)
  - b) Within IDF (Interior Douglas Fir), PP (Ponderosa Pine), and BG (Bunch grass) Biogeoclimatic zones (BEC) retain at least 10m3/ha (targeting larger diameter classes), where suitable material exists, dispersed across the block with any combination of:
    - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
    - (ii) any standing mature live or dead tree species
    - (iii) tree pieces consisting of portions of mature trees at least 3m long and at least 12.5cm diameter.
- 2. Not apply this Result and Strategy in the event that a broadcast burn is prescribed for a cutblock.
- 3. If conducting ground or cable based harvesting on a cutblock with an average slope greater than 35%, the agreement holder will:

- a) Retain any combination (either 10m3/ha or 2 stems per ha targeting larger diameter classes) in clumps or evenly distributed across the block of the following when the equipment operators safe work procedures determine that it is safe to do so;
  - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
  - (ii) any standing mature live or dead tree species.
  - (iii) tree pieces consisting of portions of mature live or dead trees at least 3m long and at least 12.5cm diameter.
- 4. When operating in the Selkirk Natural Resource District follow FPPR section 68.

# 4.12 Basic and Enhanced Coarse Woody Debris

# Legal Reference: Section 93.4 of the Land Act, OSLRMP LUO Objective 2

**Objective:** The objective for areas shown on Map 2 (of the Order)(Appendix E), is, for the purposes of conserving the suitability of Grizzly Bear, Marten and Fisher habitat at the stand level, and within landscape units of higher biodiversity emphasis, to retain basic and enhanced levels of coarse woody debris, including but not limited to, standing trees, stub trees, tree pieces across sites subject to timber harvesting.

Applicable FDU's: Adelphi, Anstey, Banting-Kettle, Barton, Blais, Bolean, Branchflower, Celista, Chase Harper, Chum, Coldstream, Cooke, Crazy, Currie, Eagle River, Glen Lake, Graystokes, Harris, Hlina, Hudson Bay, Hunter Blurton, Ireland, Jackpine, Kal Slopes, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Mellin Windy, Mission, Mt. Ida, Mugford, Naramata, Old Dave, Paxton, Priest Creek, Ratchford, Rose Swanson, Ross, Sicamous North, Skaha, Skimikin, Smokeyhouse, Stuart Terrace, TFL 33-BCTS, TFL 49, TFL 59-BCTS, Wall Creek, White Lake, Whitehead, Yard Creek, Okanagan.

#### **Definitions**

#### For the purpose of this strategy:

"mature tree" is a lodgepole pine tree greater or equal to 12.5cm dbh, or another trees species greater or equal to 17.5cm dbh that is either dead or alive

# Results and Strategies

#### The Agreement holder will at the completion of harvest:

- 1. Conduct ground based harvesting on a cutblock with an average slope of less than 35% on which a broadcast burn is not carried out:
  - a) retain any combination averaging at least 10 (ten) per hectare dispersed throughout the block of:
    - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
    - (ii) any standing mature live or dead tree species
    - (iii) tree pieces (targeting larger diameter classes) consisting of portions of mature trees at least 3m long and at least 12.5cm diameter (OSLRMP indicates 25cm DBH, yet some BCTS operating areas have timber types where the average DBH is 15cm or less).

- b) within IDF (Interior Douglas Fir), PP (Ponderosa Pine), and BG (Bunch grass) Biogeoclimatic zones (BEC) retain at least 10m3/ha, where suitable material exists, dispersed across the block with any combination of:
  - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
  - (ii) any standing mature live or dead tree species
  - (iii) tree pieces consisting of portions of mature trees at least 3m long and at least 12.5cm diameter.
- 2. Not apply this result and strategy in the event that a broadcast burn is prescribed for a cutblock.
- 3. Conduct ground or cable based harvesting on a cutblock with an average slope greater than 35%, the agreement holders will:
  - a) Retain any combination (either 10m3/ha or 10 per ha targeting larger diameter classes) in clumps or evenly distributed clumped across the block when the equipment operators safe work procedures determine that it is safe to do so;
    - (i) stubs that include any species, other than spruce or fir, that are mechanically felled or broken off 3-5m above the ground.
    - (ii) any standing mature live or dead tree species
    - (iii) tree pieces consisting of portions of mature trees at least 3m long and at least 12.5cm diameter

# 4.13 Visual Quality-Scenic Areas and Visual Quality Objectives

#### Legal Reference: FRPA Section 181 and FPPR 1.1

**Objective:** The objective set by government for Visual Quality in scenic areas are the established Visual Quality Objectives, applied in accordance with FPPR section 1.1 (Categories of visually altered forest landscapes).

#### **HLP Objective or GAR Objective:**

#### The Selkirk Natural Resource District

The District Manager has made a declaration under the FPC to establish either visual quality objectives or visual scenic classes. These Declarations are grandfathered objectives under Section 181 of the Act as well as under GAR section 7 notice "Establishment of Scenic Areas and Visual Quality Objectives within the Columbia Forest District (January 31, 2007)" and 17 "Visual Quality Objective Order (November 20, 2014)".

#### Okanagan TSA

The Okanagan Shuswap Land and Resource Management Plan (April 11, 2001 non HLP) defines "Zone 1" areas. These areas have been declared as "scenic areas" with established VQO's under the FPC and are grand parented as objectives by government.

Applicable FDUs: Adelphi, Anstey, Banting-Kettle, Barton, Big White, Blackwater Ridge, Bluewater, Bolean, Branchflower, Cascadia, Celista, Chase Harper, Chum, Coldstream, Cooke, Crazy, Currie, Drimmie Creek, Eagle River, Echo, Esplanade, Frisby Ridge, Glen Lake, Graystokes, Harris, Hlina, Hunter Blurton, Ireland, Jackpine, Jumping Creek, Kal Slopes, Kwikoit, Lamberton, Long Ridge, Mara-Sicamous, Mellin Windy, Mission, Mt. Ida, Mt. Rev Prov, Park, Mt. Seven, Mugford, Naramata, Old Dave, Paxton, Priest Creek, Rose-Swanson, Ross, Sicamous North, Skaha, Skimikin, Smokeyhouse, Stuart Terrace, TFL 33-BCTS, TFL 49, TFL 56, TFL 59-BCTS, Wall Creek, Wetask Lake, White Lake, Whitehead, Yard Creek, Okanagan, Revelstoke, Golden (All FDUs where scenic areas apply).

**Applicable FDUs for 2021 Fire Salvage within the Okanagan Shuswap District:** Adelphi, Mara-Sicamous, Paxton, Skaha, TFL 49 (All FDUs where scenic areas apply within 2021 fires in Okanagan TSA and TFL 49 where development will meet VQOs to the extent practicable in respect to the VLI polygons listed in Table 4.13.1).

**Applicable FDUs for 2023 Fire Salvage within the Okanagan Shuswap District:** Lamberton, Hlina, Chum, Okanagan, TFL 49 (All FDUs where scenic areas apply within 2023 fires in Okanagan TSA where development will meet VQOs to the extent practicable in respect to the VLI polygons listed in Table 4.13.1).

# **Results and Strategies**

When constructing a road or when exercising timber harvesting rights under this FSP within areas having established Visual Quality Objectives (VQO), the agreement holder will meet the VQO at the completion of harvesting or road building by implementing the following strategies:

1. Prior to authorization of primary forest activities, ensure a *QP* carries out a Visual Impact Assessment (VIA), and designs cutblocks and roads such that the visual alteration on the ground is consistent with the applicable category that corresponds to the VQO described in FPPR sec 1.1 Categories of Visually Altered Forest Landscapes, by

- a) assessing the proposed visual alteration from one or more significant public viewpoints, located on water or land, that provides a viewing opportunity and has relevance to the landscape being assessed; and
- b) utilizing the guidance for predicting VQOs in:
  - i. FRPA Visual Impact Assessment Handbook, May 2022 including Table 2 and 6; and/or
  - ii. the Protocol for Visual Quality Effectiveness Evaluation Procedures and Standards, FREP, 2008; and estimating the likely resulting VQO using the descriptive categories of visually altered forest landscape as defined in FPPR Section 1.1.
- 2. Where road construction and/or timber harvesting is planned and may not fully meet the established VQO given the specific circumstances or conditions of a particular area, prior to entering into an agreement that authorizes the timber harvesting or road construction, the agreement holder will submit an amendment for visual results and strategies for these specific situations as appropriate, not withstanding the following section that applies to 2021 wild fires.
- 3. Within scenic areas where cutblock and road construction is proposed to recover timber that has been damaged, or threatened, significantly reduced in value, lost or destroyed due to the effects of the 2021 White Rock Lake Fire (K61884), Thomas Creek Fire (K51794), Two-Mile Creek Fire (K42078), or other future large-scale fires, the FSP holder will:
  - a) Follow section 1 to the extent practicable by ensuring a QP carries out a Visual Impact Assessment of the altered forest landscape that will result from the cutblock harvesting or road construction, while considering the circumstances or conditions brought on by the wildfire that have impacted or damaged or threatened the timber in the scenic area; and
  - b) Where a *QP* determines that it is not practicable to be consistent with scale and acuity attributes of the established VQOs when recovering the damaged timber, the *QP* is to ensure to the extent practicable, within each VLI polygon, that the altered forest landscape that results from the cutblock harvesting or road construction:
    - i. Is natural in appearance, and not rectilinear or geometric in shape, and
    - ii. Does not exceed the levels of scale and acuity that are specified in Table 4.13.1.
    - iii. Additional FDUs, wild fires and VLI polygons may be added to table
       4.13.1 as a minor amendment for approved TOC FDUs located within the Okanagan Shuswap District (not available for the Selkirk District);
    - iv. Additions to Table 4.13.1 are restricted in respect to scale and acuity allowable extents of a one level increase to FPPR 1.1 categories of visually altered forest landscape as a minor amendment.

Table 4.13.1 \*\*\* Note additional FDUs , wildfires and VLI polygons may be added to this table as a minor amendment within the Okanagan Shuswap District. (This option is not available for the Selkirk District)

FDU/	Wildfire	VLI	Established	Scale	Acuity (allowable
Operating Area/ TFL	Identification	Polygon	VQO	(allowable extent)	extent)
Adelphi/ TFL 49	K61884	1606	Retention	Medium in scale	Easy to see
TFL 49	K61884	1863	Retention	Medium in scale	Easy to see
TFL 49	K61884	1675	Partial Retention	Large in scale	Very easy to see
Mara- Sicamous	K42078	2931	Partial Retention	Large in scale	Very easy to see
Mara- Sicamous	K42078	2939	Partial Retention	Large in scale	Very easy to see
Paxton	K61884	1597	Partial Retention	Medium to Large in scale	Very easy to see
Paxton	K61884	1599	Partial Retention	Large in scale	Very easy to see
Paxton	K61884	1613	Partial Retention	Large in scale	Very easy to see
Skaha	K51794	794	Retention	Large in scale	Very easy to see
Skaha	K51794	749	Partial Retention	Large in scale	Very easy to see
Lamberton	K21633	2759	Partial Retention	Large in scale	Very easy to see
Lamberton	K21633	2685	Modification	Very Large in Scale	Very easy to see
Hlina	K21633	2796	Retention	Medium in scale	Easy to see
Hlina	K21633	2786	Partial Retention	Large in scale	Very easy to see
Hlina	K21633	2777	Partial Retention	Large in scale	Very easy to see
Hlina	K21633	2784	Modification	Very large in Scale	Very easy to see
Chum	K21633	2919	Modification	Very large in Scale	Very easy to see

# 4.14 OSLRMP LUO Community Crown Interface and Scenic areas

#### **Source of Objective:** Okanagan-Shuswap LRMP LUO Objective 10a, Map 10

**Objective:** The objective for areas shown on LUO map 10 (Appendix E) is to maintain resources and values associated with Community Crown Interface areas and scenic areas when planning and implementing forest health operations.

**Applicable** FDU's: Aldelphi, Bolean, Branchflower, Celista, Chase Harper, Chum, Coldstream, Cooke, Currie, Eagle River, Echo, Harris, Hlina, Hunter Blurton, Ireland, Kal Slopes, Lamberton, Long Ridge, Mara-Sicamous, Mission, Mt. Ida, Paxton, Priest Creek, Rose-Swanson, Ross, Sicamous North, Skaha, Skimikin, TFL 33-BCTS, TFL 49, TFL 59-BCTS, Wall Creek, White Lake, Okanagan.

#### **Definitions**

#### For the purpose of this result or strategy:

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

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

# **Results and Strategies**

- 1. Within Scenic Areas, follow the strategy described in Visual Quality Section 4.13 (above);
- 2. Within Community/Crown Interface areas, and prior to harvesting a cutblock or constructing a road:
  - a) Provide notice of the proposed harvesting or road construction activity to the Local government within that portion of the Community/Crown Interface area, requesting the identification of concerns it may have related to the activity;
  - b) If the local government responds in writing to the notice within the timelines specified in the notice and identifies a concern, a *QP* will develop a strategy to mitigate the concern where it is practicable to do so.
  - c) Respond to the Local government, indicating how the concern has been addressed; and
- 3. Mitigate the concern to the extent practicable when a mitigation strategy has been developed, and conduct harvesting or road construction consistent with the strategy.

# 4.15 Cultural Heritage Resources

**Legal Reference:** FPPR section 10

**Objective:** "To conserve, or, if necessary protect cultural heritage resources that are;

a) The focus of a traditional use by an aboriginal people that is of continuing importance to that people and,

Not regulated under the Heritage Conservation Act."

**Applicable FDU's:** All FDU's

#### **Definitions**

#### For the purpose of this strategy:

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

"Potentially affected First Nations" means the First Nations within the asserted traditional territory defined in the Consultative Area Database or equivalent database that is maintained by the provincial government overlaps where the potential timber harvesting and road construction will take place. This could also include the known First Nation local history of an area and/or includes the advice given from the Provincial Government to include a First Nation that may be affected in which the primary forest activity takes place.

"CHR assessment" means a field and/or office review:

- a) Conducted by a member of a potentially affected First Nation
- b) Where the potentially affected Fist Nations have shared information with the FSP holder regarding the presence, relative value and abundance of a CHR;
- c) In order to:
  - (i) Assess the potential direct impact of primary forest activities on a CHR; and
  - (ii) Provide site information or recommendations for the development of strategies to mitigate the potential direct impact of primary forest activities on a CHR

# **Results and Strategies**

- 1. Conserve or if necessary protect a cultural heritage resource (CHR) by not carrying out or not authorizing a person to carry out a primary forest activity that would damage or render ineffective the cultural heritage resources unless authorized to do so by the minister or a person authorized by the minister.
- 2. At least 30 days before the agreement holder constructs a road or enters into an agreement that authorizes timber harvesting or road construction within the asserted traditional territory of a First Nation, the agreement holder will provide information to the First Nation and/or follow the protocol of any current government / First Nations consultation agreements. A written request to share information will provide an opportunity of at least 30 days, unless otherwise agreed to, for review and comment on proposed road construction or timber harvesting, and include: an overview map, a description of planned forest development activities, request to share information respecting CHR's within the identified areas, and offer to meet with the First Nation.
- 3. Evaluate the recommendations or comments that come from First Nations during the consultation process and from CHR assessments and implement those where there is a mutual agreement and where practicable. Maintain information confidential if requested by First Nation. Notify the First Nation who made the recommendation in writing prior to auction of a Timber Sale License taking

place describing how the recommendation will or will not be implemented and a map (if available) will be attached to the notification.

- 4. Meet with First Nations if requested, and the purpose of the meeting will be to:
  - a) Jointly review the available information from BCTS and the First Nation.
  - b) Determine areas of concern with regard to First Nation interests or activities that may result from forest management activities.
  - c) Identify if an assessment (e.g. CHR Assessment or Archaeological Impact Assessment (AIA)) is warranted;
  - d) Identify management activities and measures meeting the needs of both BCTS and the First Nation; and
  - e) Evaluate the potential for impacts to CHRs considering the factors listed under FPPR Schedule 1, Section 4.
  - 5. Prior to harvesting or road building communicate in writing the outcome including a map (if available), of the evaluation that includes those applicable steps in strategy 4 (above) to the First Nation that provided a comment if a meeting does not take place.
  - 6. Curtail all primary forestry activities if an unidentified cultural heritage resource is encountered while conducting a primary forestry activity to the extent necessary to protect it. Potentially affected First Nations will be notified within 5 business days of the location and nature of the cultural heritage resource encountered and the First Nation and agreement holder will work together to develop a work plan to address the finding.

# 4.16 Recreation Features for the Okanagan

#### Legal Reference: FRPA Sec. 56, Sec, 180 & 181 FPPR Sec. 70 (1), FRR Sec. 16

The Minister may establish an area as an interpretive forest site, a recreation site or a recreation trail and establish objectives for these. In addition, every area established or continued as an interpretive forest site, a recreation site or a recreation trail under the FPC is continued under FRPA Section 180 and 181, including the objectives established for them.

Applicable FDU's: All FDU's within the Okanagan TSA

# **Results and Strategies**

- 1. Conduct industrial activities in a recreation site, in an interpretive forest, or over or beside a recreation trail only when authorization under Section 16 of the Forest Recreation Regulation has been granted by the District Recreation Officer. The conditions set forth in the District Recreation Officer's letter of authorization will be considered as strategies specific to the Recreation Site or Trail described in the holder of the FSP's authorization letter.
- 2. Where an agreement or tenure exists with respect to a site or trail, at the planning and design stage for timber harvesting and road construction or deactivation, the agreement holder will provide a notice of the proposed activity to the District Recreation Officer, requesting the identification of concerns they may have related to the activity, and to determine the existing recreational use (s) of the area
  - a) Once the District Recreation Officer identifies the recreation user groups with an interest in the area, provide notice of the proposed harvesting and road construction to the identified recreation user groups, requesting the identification of concerns the groups may have related to the harvesting and road construction.
  - b) If the District Recreation Officer or recreational group has responded in writing to the notice within the timelines specified in the notice, and identifies a concern that causes a material adverse impact, on the recreational experiences that exist immediately before the activity.
    - (i) A strategy to mitigate the concern identified in 1b will be developed in coordination with the District Recreation Officer.
    - ii) Respond to the recreational group and to the District Recreational Officer indicating how the concern has been addressed; and
  - c) Where a mitigation strategy has been developed, conduct harvesting or road construction consistent with the strategy.
  - d) Provide a 2 week notification prior to commencement of road and cutblock activities to the identified recreational users that the district recreation officer has indicated in 1b of this result and strategy.

#### 4.17 Recreation - Rose Swanson Sensitive Area

#### Legal Reference: Land Act Sec. 93.8, FRPA Sec. 56, Sec, 180 & 181

An objective established under section 3, 4 or 5 of the Forest Practices Code of British Columbia Act that, immediately before the coming of force of section 93.4 of the Land Act, was in effect for an area of

- i. Crown land, or
- ii. Private land that is subject to a tree farm licence, woodlot licence or community forest agreement

In a resource management zone or in a landscape unit or sensitive area is continued as an objective established by the minister under section 93.4 of the Act for that Crown land or private land.

The Minister may establish an area as an interpretive forest site, a recreation site or a recreation trail and establish objectives for these. In addition, every area established or continued as an interpretive forest site, a recreation site or a recreation trail under the FPC is continued under FRPA Section 180 and 181, including the objectives established for them.

**Objectives:** As set by government for Recreation Resources – Rose Swanson Sensitive Area, as noted in the applicable Order dated April 30, 1997, is to:

- a) Maintain and enhance trail network for use by recreationists.
- b) Protect visual quality of area.
- c) Maintain recreation values by limiting timber harvesting to low impact silvicultural systems.
- d) Protect area against vandalism and timber theft.

The Rose Swanson Sensitive Area Results and Strategies are to remain consistent with the Order.

#### Applicable FDU: Rose Swanson

The Rose Swanson FDU consists of two distinct geographical areas: The northern unit is located to the north of Hullcar and Heywood-Armstrong Roads. The southern unit contains the Rose Swanson Sensitive Area and is located to the south of Heywood-Armstrong Road. These Results and Strategies apply only to the southern unit of the Rose Swanson FDU.

**Rose Swanson Sensitive Area:** 743.9 hectares (Order states 712.0 hectares, although current GIS linework indicates 743.9 hectares)

**Note:** Two additional areas outside of the original Sensitive Area Order linework have been included to be managed using the Results and Strategies for Rose Swanson Sensitive Area: 26.5 hectares, located to the southeast of the mapped Sensitive Area, will be managed as part of Zone 1; and 97.8 hectares, located to the north of the mapped Sensitive Area off Chamberlaine Road will be managed as part of Zone 2. The total area of Zone 1 and Zone 2 combined (inclusive of the Sensitive Area) is 868.2 hectares.

#### **Definitions for the purpose of this strategy:**

"Designated recreational use" means non-commercial recreational use of the trail network as described in the Rose Swanson Sensitive Area Order (specifically hiking, horseback riding and mountain biking), but may be expanded to include other recreation activities as deemed appropriate by subsequent Monitoring Group recommendations and the District Recreation Officer.

"Enhancement of the trail network" means any act completed by BCTS to increase the quality, value, or extent of the trail network for use by recreationists.

"Low impact silviculture system" means silviculture systems that are non-clearcut and will include: retention silviculture system, group selection and single tree selection systems as defined in the Silviculture Systems Handbook for British Columbia, March 2003. The retention silviculture system will result in even-aged stands and single tree selection and group selection will result in uneven-aged stands.

"Maintenance of the trail network" means any act completed by BCTS to retain and/or ensure stability of the trail network and the control of natural drainage along the trail network.

"Objectives" means the objectives established for the Rose Swanson Sensitive Area established by the applicable Order through the Ministry of Forests, April 30, 1997.

"**Permanent road**" means a road that is built for industrial use and is intended to be long-term in nature. The road will have ditch lines, drainage culverts and a raised subgrade built with suitable materials.

"Rose Swanson Sensitive Area" means the 743.9 hectare sensitive area established by the applicable Order through the Ministry of Forests, April 30, 1997.

"Skid trail" means a trail established to accommodate harvesting equipment, used to move logs from a harvest area to an area used for processing and loading the logs onto trucks. A skid trail will be rehabilitated upon completion of harvesting activities, which includes de-compacting the surface materials, re-contouring where required to maintain slope stability, restoring natural drainage patterns, and planting trees.

"Temporary road" means a road that is built for industrial use and is short term in nature (rehabilitated by May 31 following the completion of harvest operations). A temporary road will be rehabilitated and have all structures removed, the road surface de-compacted, the ground surface re-contoured, natural drainage patterns restored, and trees planted (on forest land) to return areas occupied by the temporary roads back into forest production.

"**Trail network**" refers to the existing mapped trail network as indicated in Appendix I-1 on the Rose Swanson Sensitive Area FSP amendment map as submitted in March 2023.

**"Zone 1"** is a management area established to facilitate the implementation of these Results and Strategies. Zone 1 consists of the area surrounding the main trail network as indicated in Appendix I-1 on the Rose Swanson Sensitive Area FSP amendment map showing sensitive areas Zone 1 and Zone 2.

Note: Zone 1 includes an area of 26.5 hectares outside of the original Sensitive Area boundaries in the easternmost section of the Rose Swanson FDU in which the Zone 1 Results and Strategies will also apply. This inclusion of this area is to enhance and accommodate one of the main recreation loop trails that extends beyond the original Sensitive Area boundaries.

"Zone 1 recreation trail" means a recreation trail established pursuant to the Rose Swanson Sensitive Area Objectives as of the legislative planning date as indicated in Appendix I-1 on the Rose Swanson Sensitive Area FSP amendment map showing sensitive areas Zone 1 and Zone 2.

**"Zone 2"** is a management area established to facilitate the implementation of these Results and Strategies. Zone 2 consists of the remainder of the original Sensitive Area outside of Zone 1 as indicated on Appendix I-1 on the Rose Swanson Sensitive Area FSP amendment map showing sensitive areas Zone 1 and Zone 2, and also includes the following area:

Note: Zone 2 includes an area of 97.8 hectares outside of the original Sensitive Area boundaries, adjacent to the northernmost section of the Sensitive Area accessed from Chamberlaine Road. Zone 2 Results and Strategies will also apply to this additional area of 97.8 hectares to accommodate and maintain the recreation experience for the recreational trails.

"Zone 2 recreation trail" means a trail used predominately for recreational purposes that is currently established on old resource roads or harvesting trails, and includes sections of existing trails that are used to connect portions of these old road or harvesting trails. Zone 2 recreation trails are indicated in Appendix I-1 on the Rose Swanson Sensitive Area FSP amendment map showing sensitive areas Zone 1 and Zone 2.

# **Results and Strategies**

- 1. Where BCTS operations overlap Zone 1 or Zone 2, BCTS will maintain and enhance the trail network within Zone 1 and Zone 2 for use by recreationists.
  - a) By providing referral on proposed development activities to the District Recreation Officer in order to receive updated stakeholder information.
  - b) Conduct a public referral of proposed timber harvesting, road construction and deactivation plans, and allow 120 days for review and comment of plans with the opportunity for input. If timber is in imminent danger of being lost or destroyed, a shorter review period of 30 days will be permitted. As part of the public engagement process for the Rose Swanson Sensitive Area, BCTS will advertise any harvest plans through local newspapers and provide a minimum of one open house and field tour opportunity to facilitate public review and comment.
  - c) Enhance the trail network by means of any act completed by BCTS to increase the quality, value or extent of the trail network for use by recreationists, and will include:
    - i) Ensuring water control measures and re-establishment of natural drainage patterns on the portions of any trails utilized for harvesting operations.
    - ii) Improve existing or create new potential recreational trails on areas required for harvesting through design and input from stakeholders. Creation of new trails or improvements to existing trails are subject to obtaining approvals for such activities from the District Recreation Officer.
    - iii) Install a minimum of one interpretive sign per harvested cut block for educational opportunities at a location which intersects a recreation trail and the block or, where no such intersection exists, where the main access road or skid trail first enters the harvest area. Signs are to be installed within one year of planting the block.
    - iv) Danger tree falling along all Zone1 and Zone 2 recreational trails located within 25 metres of any active BCTS harvest operations.
    - v) Harvest under 5% (less than 43.4 hectares net harvest area) of the combined Zone 1 and Zone 2 timber harvesting land-base area in any 10-year period unless damage by a significant forest health concern, windthrow or wildfire event has occurred, in which case any sanitation or salvage harvesting will be planned with the support of and in consultation with the District Forest Health Specialist.
- 2. Where harvesting or road construction overlaps with a Zone 1 recreation trail or Zone 2 recreation trail, the FSP holder will protect visual quality by:
  - a) For **Zone 1 recreation trails** establish a 100-metre-wide trail management zone on the outer perimeter of the Zone 1 trail system. The entire area located inside the perimeter of the Zone 1 trail system is also included in the trail management zone.
  - b) For **Zone 2 recreation trails** establish a 15-metre-wide trail management zone on either side of the trail (30 metres total width).

- 3. Trail management zones will protect visual quality from the trail and be treated in the following manner:
  - a) Zone 1 trail management zone will avoid timber harvesting unless sanitation or salvage harvesting is required and will be minimized to the extent practicable.
  - b) Harvesting in Zone 2 trail management zones will be limited to the use of single tree/group selection or retention harvesting with >=50% of the pre-harvest stand basal area retained within the harvest area boundary.
  - c) Retain understory non-merchantable trees with good form, health and vigour where available and to the extent practicable within Zone 1 and Zone 2 trail management zones, except as required for clearing width widening of Zone 2 recreation trails under Result and Strategy #9 below.
- 4. Timber harvesting within Zone 1 will be avoided unless sanitation or salvage harvesting is required and will meet the Visual Quality Objective Results and Strategies in section 4.13 of the FSP.
- 5. Timber harvesting throughout the southern unit of the Rose Swanson FDU is limited to low impact silviculture systems (see definitions section) unless sanitation or salvage harvesting is required. Any sanitation or salvage operations will meet the Visual Quality Objective Results and Strategies in section 4.13 of the FSP.
- 6. If timber is damaged by a significant forest health factor, windthrow or wildfire event, timber harvesting within management Zones 1 and 2 will be limited to the extent required to harvest the damaged timber, with the support of and in consultation with the District Forest Health Specialist.
  - a) Removal of timber in Zone 1 will be limited to salvage or sanitation of damaged trees and any necessary incidental removal of timber to ensure operational feasibility and meet safety requirements.
  - b) Timber harvesting throughout the southern unit of Rose Swanson FDU will continue to be limited to low impact silviculture systems except where additional harvesting of damaged trees is necessary to achieve the sanitation or salvage prescription.
  - c) Removal of timber within Zone 2 trail management zones will not exceed 50% of the pre-harvest stand basal area within the harvest area boundary unless further salvage or sanitation of damaged trees is required to mitigate for any of the management objectives listed in the Sensitive Area Order.
- 7. No new permanent roads will be constructed within Zone 1 or across a Zone 1 recreation trail. Only temporary roads that will be rehabilitated following completion of harvest will be permitted.
- 8. Temporary roads that cross Zone 1 or Zone 2 recreation trails will be rehabilitated in a manner that maintains the integrity of the recreation trail to the extent practicable and does not restrict the designated recreational use of the trail.
- 9. Within Zone 2, when constructing a new road or using existing trails for harvesting or hauling purposes and where the road is not necessary for future access on an ongoing basis, the access will be restricted so it is non-passable by a four-wheel drive pickup truck within six months of harvest completion. Although road access within Zone 2 will be restricted to vehicles, it will continue to accommodate the designated recreational use for the area.

- 10. Should a road be reactivated on a short-term basis for silviculture activities, access will be restricted so it is non-passable by a four-wheel drive pickup truck within three months of the conclusion of the silviculture activity. Zone 2 road access will be restricted but will continue to accommodate designated recreational use for the area.
- 11. Zone 2 recreation trails within 25 meters of harvesting activities will have water control measures implemented to maintain natural drainage and will be re-established and cleared of debris to remove impediments to any designated recreational use that existed prior to harvesting activities. This is to be completed prior to May 31<sup>st</sup> following the completion of harvest operations.
- 12. If Zone 2 recreation trails are used for harvesting or hauling purposes, widening of the trails will be minimized to the extent practicable to allow safe harvesting practices such as skidding, forwarding, or hauling of timber. Road widths will be determined in the field to meet the requirements for safety and on average will have clearing widths of 10 metres and a running surface width of 5 metres. Roads will be rehabilitated back to the original width following harvest unless access goals by recreational stakeholders are requested, are supported by the District Recreation Officer, are reasonable to accommodate, and meet other FSP requirements. Any expansion of clearing widths greater than 7 metres for harvesting operations will be planted post-harvest.
- 13. Rehabilitated temporary roads, skid trails and any expanded clearing widths in excess of 7 metres on Zone 2 trails that have been used for harvesting operations will be replanted within two years of harvest completion in conjunction with replanting of harvested areas.
- 14. Harvesting and hauling activities will be limited to November 1<sup>st</sup> to March 31<sup>st</sup>. Where permanent road construction is specified, the allowable season for construction will extend from September 15<sup>th</sup> to March 31<sup>st</sup> to allow additional time for avoidance of saturated soils. Road deactivation and rehabilitation work will be done prior to May 31<sup>st</sup> following the completion of harvesting operations.
- 15. Notify the District Recreation Officer, stakeholders provided in 1(a), and anyone who has identified themselves as a stakeholder in 1(b) a minimum of two-weeks prior to the commencement of any harvesting, hauling or roadbuilding activities. In addition, signage will be posted at Rose Swanson hiking area parking lot at Chamberlaine Road a minimum of two-weeks prior to the commencement of activities. The signage will indicate the location, duration, and timing of industrial activity.
- 16. Any damage that has a resulting impact to the use of the existing recreational infrastructure or trails as a direct result of BCTS road construction, timber harvesting, hauling, deactivation, or rehabilitation activities will be repaired or mitigated by the holder of the FSP to the extent practicable prior to May 31<sup>st</sup> following the completion of harvesting operations.
- 17. Vandalism and timber theft within Zone 1 and Zone 2 will be protected against to the extent practicable by ensuring timely road deactivation, prompt rehabilitation of temporary roads, minimizing new permanent road construction, limiting vehicle access, working with local communities on harvest strategies, and reporting any observed instances of non-trivial vandalism or timber theft to District Compliance and Enforcement staff.

#### 4.18 Recreation Features for Golden and Revelstoke

Legal Reference: FRPA Sec. 56, Sec, 180 & 181 FPPR Sec. 70 (1), FRR Sec. 16

**Objective:** Objectives set by government for recreation sites and recreation trails and interpretive sites established under the FPC with objectives grand parented under FRPA sec. 181 and located within FDUs established under this Plan are listed in Appendix H, Table H1of this FSP.

**Applicable** FDU's: R&S 1& 2: Golden TSA: Blackwater Ridge, Goodfellow, Swan, Esplanade, Mt. Seven Revelstoke TSA: Wetask, Cascadia, Frisby Ridge, Red Rock Harbour R&S 3 & 4

: All FDU's within the Selkirk Natural Resource District

# **Results and Strategies**

- 1. When harvesting in or near a Recreation sites listed in **Appendix I**, (Table I1), will adhere to the site specific objectives, where applicable and receive a Section 16 of the Forest Recreation Regulation authorization letter.
- 2. If, as a result of harvesting timber or road construction under paragraph (1) above, damages occur to existing infrastructure within a recreation site, trail or interpretive site, the holder of the FSP will repair or mitigate the damage, to preharvest condition or to a mutually agreeable condition and timing of required work as determined by the holder of the FSP and the District Recreation Officer,
- 3. For Recreation sites not listed in **Appendix I** (Table I1), harvesting will only occur within a recreation site only when authorization under Section 16 of the Forest Recreation Regulation has been granted by the District Recreation Officer. The conditions set forth in the District Recreation Officer's letter of authorization will be considered as strategies specific to the Recreation site or trail described in the agreement holder's authorization letter.
- 4. Notify the District Recreation Officer prior to active industrial hauling through a recreation site or along a forestry road that crosses recreation trails and recreation sites. The holder of the FSP will also post signage indicating duration of and daily timing of industrial activity.
- 5. Where an agreement or tenure exists with respect to a site or trail, at the planning and design stage for timber harvesting and road construction or deactivation, the agreement holder will provide a referral to the tenure or agreement holder, describing the planned activities and allowing a reasonable opportunity for review and comment.

#### 4.19 Intensive Recreation Areas

#### **Legal Reference:** Section 93.4 of the *Land Act*

**Objective:** The objective for areas shown on LUO Map 3 (of the Order)(Appendix E) is that primary forest activities including sanitation and salvage activities will not have a material adverse impact on the potential for a diverse range of quality recreational experiences that exist immediately before the activity.

Applicable FDU's: Shared Use All Season (Graystokes, Harris, Mission, Naramata, Okanagan, Priest Creek, Big White, Wall Creek, Mt IDA, Kal Slopes and Mugford), Shared Use Summer (Coldstream and Okanagan), Cross Country Skiing/Non-Motorized (Skaha, TFL 49, Okanagan), Snowmobile (Banting Kettle, Lamberton, Hunter Blurton, TFL 33 BCTS, Yard Creek, Mara Sicamous, Okanagan, Skimikin, Bolean, TFL 49, Ireland), Summer Motorized (Glenn Lake and Okanagan), Summer Non-Motorized (Smokeyhouse, Blais, TFL 49, Currie, Echo and Okanagan)

# **Results and Strategies**

- 1. Prior to harvesting a cutblock or constructing a road within Intensive Recreation Areas as shown on LUO Map 3:
  - a) Provide notice of the proposed harvesting or road construction to the district recreation officer, requesting the identification of concerns he/she may have related to the activity, and to determine the existing recreational use (s) of the area
  - b) Once the district recreation officer identifies the recreation user groups with an interest in the area, provide notice of the proposed harvesting and road construction to the identified recreation user groups, requesting the identification of concerns the groups may have related to the harvesting and road construction.
  - c) If the district recreation officer or recreational group has responded in writing to the notice within the timelines specified in the notice and identifies a concern that causes a material adverse impact, to what it has on the recreational experiences that exist immediately before the activity.
    - (i) a strategy to mitigate the concern identified in 1b will be developed in coordination with the district recreation officer.
    - (ii) Respond to the Recreational group and to the district recreational officer indicating how the concern has been addressed; and
  - d) Where a mitigation strategy has been developed, conduct harvesting or road construction consistent with the strategy.
  - e) Provide a 2-week notification prior to commencement of road and cutblock activities to the identified recreational users that the district recreation officer has indicated in 1b of this result and strategy.

# 4.20 Regionally Significant Trail Corridors

# Source of Objective – Okanagan-Shuswap LRMP LUO Objective 4 Map 4

**Objective:** The objective for areas shown on LUO Map 4 (of the Order)(Appendix E) is that primary forest activities including sanitation and salvage activities will not have a material adverse impact on the potential for a diverse range of quality recreational experiences that exist immediately before the activity.

**Applicable** FDUs: Jack pine, Kal slopes, Mara-Sicamous, Mission, Priest Creek, TFL 49, Whitehead, Greystokes, Okanagan

#### **Definitions**

# For the purpose of this strategy:

"Patch cuts" means for the 10% of the trail with patches having less than 3m tall regeneration may be dispersed along the length of the trail or concentrated in one area. The minimum distance between patches should be equal to the size of the adjoining patch. Patch cuts within the trail corridors may join up with larger clearcut openings that are located outside of, but contiguous with, the corridor.

# **Results and Strategies**

- 1. Where harvesting or road construction overlaps with a clearly identified regionally significant trail in the OSLRMP (Recreation RMZ, REC 4-5, or Map REC 4-21) the holder will:
  - a) For **Category A** trails: a 100m management zone will be established on each side of the trail (200m total width).
  - b) For **Category B** trails: a 25m management zone will be established on each side of the trail (50m total width).
- 2. If there are no significant forest health factors, harvesting under this FSP within the trail management zone will consist of either:
  - a) Single tree/group selection harvesting(>66% basal area retention), or
  - b) *Patch cuts* (each less than 1.0 ha in area) to the extent that not more than 10% of the trail management zone consisting of patches less than 3m tall.
- 3. If timber is damaged by a significant forest health factor, timber harvesting within the management zone will be limited to the extent required to harvest the affected timber.
- 4. Unless no practicable alternative exists, no new permanent roads will be constructed across a Category A or B trail.
- 5. Nothing in this result or strategy precludes the use of a Category A or B trail as an industrial road if the Category A or B trail is located on an existing road.

#### 4.21 Tourism Areas

#### **Legal Reference:** Section 93.4 of the *Land Act*

**Objective:** The objective for areas shown on LUO Map 5 (of the Order)(Appendix E) is to maintain foreground visual quality from viewpoints on existing tourism areas, facilities, trails and natural features important for tourism.

**Applicable** FDU's: Adelphi, Anstey, Big White, Blais, Bolean, Celista, Coldstream, Crazy, Currie, Echo, Glen Lake, Ireland, Jackpine, Kal slopes, Long Ridge, Mara-Sicamous, Mellin Windy, Mugford, Naramata, Okanagan, Paxton, Priest Creek, Ross, Sicamous-North, Skaha, TFL 33-BCTS, TFL 49, TFL 59-BCTS, Wetask Lake

- 1. Where harvesting or road construction overlaps an OSLRMP Zone 1 Scenic Area, follow the strategy described in Visual Quality Section 4.13.
- 2. Prior to harvesting a cutblock or constructing a road within Tourism Areas located outside of the Scenic Areas described in Section 4.13 as shown on LUO Map 5:
  - a) Where the harvesting or road construction is located outside a Scenic Area:
    - (i) Prior to harvesting a cutblock or constructing a road, determine if the foreground visual alteration related to the harvesting or road construction is potentially visible from viewpoints on existing tourism areas, facilities, legally designated trails and natural features important for tourism;
    - (ii) If the foreground visual alteration is potentially visible, ensure a qualified professional designs the harvesting and road construction such that the foreground visual alteration mimics natural landscape characteristics and incorporates in-block single or grouped tree retention, to provide foreground screening and increase visual variety; and
- 3. Conduct road construction and harvesting consistent with the professional design.

#### 5.0 Measures

# 5.1 Measures to mitigate the spread of Invasive Plants

Legal Reference: FRPA Section 47, FPPR section 17
Applicable FDU's: All

## Measures

The Agreement holder will ensure the following measures are taken to mitigate the introduction or spread of Invasive Plants:

- 1. Prior to harvesting operations the MFLNRORD Invasive Alien Plant Program (IAPP) database will be used to identify the locations of known invasive plant infestations. Where invasive plant infestations are found to be located inside or within 100m of proposed areas for timber harvesting and road building activities site-specific measures to minimize the establishment and/or spread of invasive plants will be incorporated into site plans and tenure agreements.
- 2. Invasive plant awareness training, developed by a QP, is conducted for new BCTS field staff within 1 year of the start of employment, and for all field staff a maximum of every five years, and is to be documented in a training record.
- 3. Invasive plant awareness training is mandatory for all staff and contract personnel carrying out development activities and/or performance monitoring of third parties engaged in primary forest activities.
- 4. Where field staff and other key personnel identify new invasive plant infestations outside of known infestation areas, those are to be entered into the MFLNRORD report-a-weed reporting system within 30 days of discovery; and
- 5. Contractors engaged in road building activities and agreement holders are provided with an information package regarding the identification and reporting of invasive plants. Where applicable based on measure (1) above, measures to minimize the establishment and spread of invasive plants are requirements within contracts and agreements.
- 6. Based on the review described in measure (1) above or if found inside or within 100m of block/road at any time, where road construction or any agreement that authorized timber harvesting occurs, the following measures will be implemented, and are a requirement that applies to each holder of an agreement under Section 12 (2) of the Forest Act and each holder of a contract to construct a road entered into by an agreement holder of this FSP:
  - a) vehicles, mechanized equipment, culverts, bridges, and cattle-guards are to be inspected for the presence of soil or plant material, including documentation on inspection forms, prior to being transported to or from work sites, and, if present plant and soil materials are to be removed.
  - b) grass seed exposed mineral soils where exposed soil exceeds 0.01 ha in a contiguous area on cut and fill slopes of new roads and trails during the first available spring or fall and not more than 12 months following construction; and

- c) grass seed exposed soils where exposed soil exceeds 0.01ha in a contiguous area on all new landings, and rehabilitated areas during the first available spring or fall, and not more than 12 months following the time of mineral soil exposure, except if the rehabilitated areas are to be revegetated through the planting of trees; and
- d) where grass seeding is undertaken, utilize high quality seed (a mix recommended by a MFLNRORD range specialist, if available; otherwise Canada Common #1 Forage Mix or better grade) to ensure introduction of invasive plant seed is minimized. Request and check the certificate of seed analysis for each lot of each species in your mix to check for invasive plants and report any seed lots with BC Noxious weeds or species of potential concern to the Invasive Plant Program of the FLNRORD.
- e) Limit soil disturbance where known invasive plant infestations are located and avoid log decks on or near infestation areas.

# **5.2** Natural Range Barriers

Legal Reference: FRPA Section 48 and 51, FPPR Section 18

Applicable FDU's: All

#### Measures

The Agreement holder will ensure that the following measures are taken to mitigate the effect of removing or rendering ineffective natural range barriers in all FDU's that contain, or are adjacent to range tenures:

- 1. During the planning and development of timber harvesting conduct primary forest activities in a manner that will minimize impacts to natural range barriers, to the extent practicable while considering impacts to other FRPA values.
- 2. At the planning and design stage of timber harvesting and/or road building activities provide a referral to the Natural Resource District Range Officer, and to the holder of the range tenure agreement regarding the details of the planned forest development, including the location of proposed cutblocks and roads, and provide a reasonable opportunity for review and comment.
- 3. If the holder of the range tenure agreement indicates in writing (within the time frame specified within the referral letter) that a proposed cutblock or road will remove or render ineffective a natural range barrier for livestock authorized to be within a range tenure area:
  - a) the person initiating the referral will consult with the holder of the range tenure on:
    - (i) the location of the natural range barrier in question and the potential impacts
    - (ii) preferred mitigation actions, and
    - (iii) the timing of post-operations follow-up, and mitigation actions.
      - a) if there is a solution on mitigation measures the holder will ensure those measures are incorporated within the requirements of any agreement entered into under section 12(2) of the Forest Act or any road construction contract, or within another time period if agreed to with the holder of the range tenure agreement; and
      - b) where mitigative measures include the installation of a range development, any ongoing maintenance of the development, if required, will be the responsibility of the holder of the range tenure agreement, as authorized by the District Manager.
- 4. Where the agreement holder becomes aware that a proposed cutblock or road will remove or render ineffective a natural range barrier for livestock authorized to be in an area, but the holder of the range agreement does not respond to the notification or the holder is unable to come to an agreement with the holder of the range tenure agreement on measures to mitigate negative effects, the agreement holder will consult with the District Range Officer to implement reasonable measures, and formulate a plan to assess post-implementation to verify that measures were successful or not. The agreement holder will notify the holder of the range tenure agreement in writing at least 30 days prior undertaking the measures.

# 6.0 Stocking standards

Legal Reference: FPPR section 16

Applicable Exemptions: FPPR 44(3) (a)-(i)

Applicable FDU's: All

#### Information

See Appendix J and K for Stocking Standards tables and accompanying information. These stocking standards, as previously approved, will remain in effect until changes are made to implement updated BEC and associated Land Management Handbook information. It is expected updates to the standards will occur periodically, will be iterative and will continue to evolve to reflect the collective desired future landscape conditions. After updated stocking standards have been completed and approved by the Chief Forester, an FSP amendment will be made to adopt the new stocking standards and variations in partnership with Ministry Staff, Indigenous communities and tenure holders who have adopted the stocking standards into their FSPs. BCTS Okanagan Columbia intends to amend the revised stocking standards for the Selkirk Natural Resource District into the FSP once the remaining Golden and Revelstoke Timber Supply Area standards have been fully approved.

#### Measures

#### **Specifying Stocking Standards for the Forest Stewardship Plan:**

For the purposes of *FPPR* 16(1), sec.44 (1) of the *FPPR* applies to all FDU's where the agreement holder is required to establish a free growing stand.

For the purposes of FPPR 16(3), the agreement holder has ensured that this plan specifies:

- a) the applicable stocking standards and applicable regeneration date referred to in sec. 44(1)(a) of the FPPR, and
- b) the applicable stocking standards and free growing height referred to in sec. 44(1)(b) of the *FPPR*.

These stocking standards are subject to the special circumstances and variations which the agreement holder has identified below and as set out in **Appendix J and K**.

For the purposes of *FPPR* 16(4), the agreement holder will, prior to commencement of timber harvesting of an area for reasons that are referred to in sec. 44(4) of the *FPPR*, specify stocking standards for the area and the situations or circumstances that determine when the stocking standards will be applied.

# **Basis for Stocking Standards**

# 6.1 Stocking Standards within the Okanagan Shuswap Natural Resource District (including Okanagan Timber Supply Area, TFL 33, TFL 49 and TFL 59)

Stocking standards reference tables for all FDUs located within the Okanagan Shuswap Natural Resource District are based on the Chief Forester's Thompson Okanagan Regional (TOR) Stocking Standards and variances, dated December 9<sup>th</sup>, 2021.

TOR stocking standards tables for even-aged stands, uneven-aged stands and footnotes for the Okanagan Shuswap Natural Resource District are listed in **Appendix J-1 and J-2**.

# 6.1.1 Special Circumstances referred to above include, without limitation, the following General Standards and Variances, approved as an integral part of the TOR stocking standards:

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

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

# **Definitions**

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

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

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

#### **General Standards**

#### **G-1** Crop Tree Assessment

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

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

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

- a) greater than 20 m2 average basal must be retained in trees with a diameter at breast height of  $\geq$  12.5 cm; and
- b) Trees contributing to the retained basal area comply with the attributes defined in the *Silviculture Surveys Procedures Manual* "Free growing damage criteria for single entry dispersed retention stocking standard (SEDRESS) managed stands in Interior Deviation from Potential (DFP) and Layered Surveys"; and
- c) trees contributing to the retained basal area must be the species identified as preferred and acceptable in the Thompson Okanagan Regional Stocking Standards; and

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

#### G-3 Brush Competition

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

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

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

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

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

#### G-4 Maximum Density

The maximum stocking density for Free Growing obligations for even-aged stands has been removed for all FDUs covered by this FSP as recommended by the Chief Forester's updated guidance on maximum density for free growing obligations memo (June 15<sup>th</sup>, 2022).

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

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

#### G-6 Uneven-Aged Stocking Standards

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

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

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

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

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

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

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

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

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

#### Variations from General Standards

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

#### V-1 Multiple Harvest Entries

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

#### V-2 Seven Year Regeneration Delay

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

# V-3 Changes to Milestones Due to Damage Caused by Wildfire

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

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

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

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

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

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

#### V-5 Variation to Preferred and/or Acceptable Species

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

# V-6 Mule Deer Winter Range

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

#### V-7 Standard for the Reduction of Weevil Damage

If,

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

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

#### V-8 Management of Root Disease Sites

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

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

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

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

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

#### B. Brushing on Armillaria Sites:

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

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

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

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

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

#### V-10 GAR Consistency

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

#### V-11 Retention of Pre-Harvest Residual Stems

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

#### V-12 Intermediate Cutting

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

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

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

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

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

or

• As directed/requested by the District Manager

# 6.2 Stocking Standards within the Selkirk Natural Resource District (including Cascadia, Golden & Revelstoke Timber Supply Areas, TFL 55 and TFL 56)

Stocking standards reference tables for even-aged stands, uneven-aged stands and footnotes for all FDUs located within the Selkirk Natural Resource District are listed in **Appendix K**. These standards are based on the FSP Stocking Standards, Columbia Forest District, Version 3.0, dated April 13, 2010. Where a BEC unit is listed twice in the Table, "Columbia" applies to FDUs located within Cascadia TSA, Golden TSA, Revelstoke TSA, TFL 55, and TFL 56. "Okanagan" applies only to Harvest Authority areas within the Okanagan Shuswap Natural Resource District that were approved prior to the effective date of FSP Amendment #6.

#### 6.2.1 Special Circumstances referred to above include, without limitation:

#### 1. Upper Density Limit

The maximum stocking density for Free Growing obligations for even-aged stands has been removed for all FDUs covered by the FSP as recommended by the Chief Forester's updated guidance on maximum density for free growing obligations memo (dated June 15<sup>th</sup>, 2022).

#### 2. Minimum Inter-tree Distance

Trees must be the greater than or equal to the minimum inter-tree distance (MITD) to be considered well-spaced. The default MITD is 2.0 metres. The MITD will be reduced under the following special circumstances defined in Table 5 where, in the opinion of a professional forester employed or retained by the agreement holder and considering the factors relating to stocking specifications as per 6(3)(a)(ii) of Schedule 1 of the *FPPR*.

**Table 5: Minimum Inter Tree Distances** 

Minimum inter-tree distance (m)	Location/Condition	
	Columbia	
1.0	Planting on mechanically mounded sites	
1.3	Planting on sites with elevated microsites (natural hummocks and mounds), sites involving a species with a footnote #1 restriction, problem vegetation areas (woody brush - Douglas maple, willow, alder), very rocky sites and planting on hygric or wetter sites.	
1.5	Fill plants, areas with a significant number of advanced regen, and areas with significant accumulations of untreatable slash.	
1.7	Planting in ICHwk1, ICHvk1, ICHmw1, ICHmw2, ICHmw3, ESSFvc, ESSFwc1, ESSFwc2, and ESSFwc4	
2.0	All other areas	
Okanagan (applies only to Harvest Authority areas within the Okanagan Shuswap		
Natural Resourc	e District that were approved prior to the effective date of FSP Amendment #6)	
2.0	Default MITD	
1.0	Planting on mechanically mounded sites; and on important berry producing site series within Grizzly Bear Specified Area 8-232 as specified in the GAR Order to maintain berry resources.	
1.5	Planting on hygric or subhydric sites <sup>1</sup> ; planting on sites with elevated microsites (natural hummocks and mounds) to address frost and/or cold soil concerns; obstacle planting for cattle damage management <sup>2,3</sup> or shade planting for survival on severe drought-prone sites <sup>3</sup> ; planting on rocky and/or thin soiled sites (less than 15 cm of mineral soil) <sup>3</sup> ; areas with significant numbers of residual trees left to meet specific management objectives and/or specific results & strategies <sup>3</sup> ; and areas with significant accumulations of untreatable slash <sup>3</sup> .	
	Footnotes:  1- As per the Reference Guide for FDP Stocking Standards, dated September 2, 2016, for the former Kamloops Forest Region  2- As per the Okanagan Shuswap District Forage Strategy, dated March 2011.  3- It is the intent of the agreement holder to apply these reduced MITD only where necessary to meet the stocking requirements on difficult to manage sites.	

#### 2. Height of Trees Relative to Competing Vegetation

In addition to meeting the minimum height, tree height must be greater than the specified percentage relative to competing vegetation within a one metre radius of the trunk as defined in table 6.

**Table 6: Tree Height Relative to Competing Vegetation.** 

% Ht Above Competing Vegetation.	Location/condition
125	ESSF, IDF, MS, PP
150	ICH

For the purposes of assessing height of trees relative to competing vegetation,

- a) Mature broadleaf trees that are retained for wildlife tree retention purposes,
- b) Mature broadleaf trees that are retained for riparian management zone basal area requirement purposes, and/or
- c) Any broadleaf trees that are retained as preferred or acceptable tree species as per the specified stocking standards

shall not be considered as competing vegetation for purposes of assessing height of trees relative to competing vegetation.

#### 3. Regeneration Date:

The regeneration date applicable to an area will be 7 years where natural regeneration or uneven-aged single tree selection system is used in the whole of the standards unit.

#### 4. Free Growing Date:

The free growing date for even aged stands is the date (20 years from commencement date of harvest) specified in FPPR 44(1)(b). For uneven aged stands (12 months after the completion of harvest (and meets the Free growing stocking standards)) specified in FPPR section 44(4) and FPPR section 97 (3).

#### 5. Free Growing Surveys:

Free growing status will be evaluated using the FLNRO Silviculture Survey Procedures Manual, dated April 1, 2016 except where broadleaf tree species are to be retained as a component of stands to address the immediate and long-term forest health risks, specifically *Armillaria* and (to a lesser extent) *Phellinus* root disease, associated with the Okanagan ICHmk1, ICHmw2, ICHmw3, IDFmw1 and IDFmw2 BEC variants. Within these BEC variants, vegetation competition and free growing status will be evaluated using the revised criteria specified in part 18a of the Silviculture Survey Reference FS660.

#### 6. M Value for stocking and free growing surveys:

The maximum number of healthy, well-spaced trees that may be tallied in a single plot is calculated by dividing the target stocking standard for the BGC variant by the plot multiplier, and is rounded off to the nearest higher whole number if necessary.

#### 7. Minimum Leave Tree Characteristics:

Advanced regeneration must meet the requirements of the FLNRO Silviculture Survey Procedures Manual, dated April 1, 2016, and as updated from time to time, to be acceptable.

#### 8. Dispersed Strata:

On standards units where dispersed, non-mappable complexes of differing site series are noted, the preferred and acceptable species for the applicable dominant site series (as per **Appendix K**) shall apply. The target and minimum stocking standards shall be based on the dominant site series.

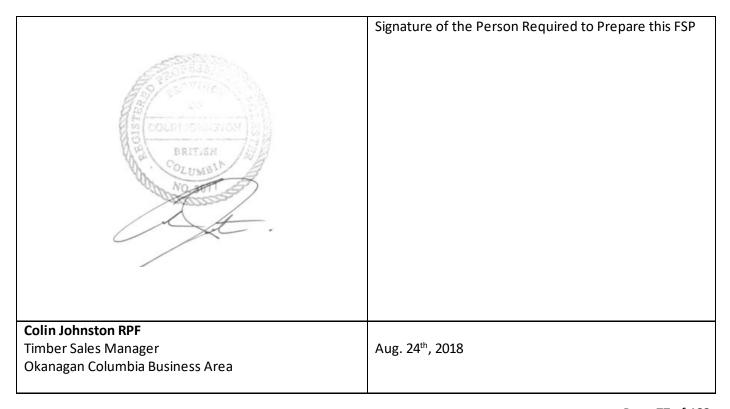
#### 9. Ungulate Winter Range within Golden TSA:

Target and minimum stocking specified within Table 1: Forest Cover Requirements for Ungulate Winter Range of the Draft Golden UWR U-4-007 for forest practices carried out within the boundaries of ungulate winter range polygons contained within the Golden TSA will supersede those contained in **Appendix K**.

# 7.0 Signatures of the Preparing Forester and the person required to prepare the FSP

## 7.1 Signature of Preparing Forester

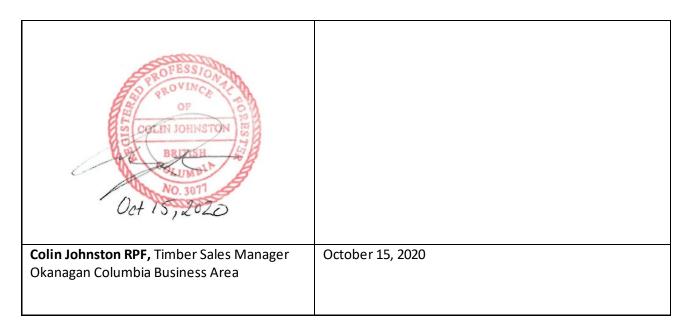
	Preparing Forester
OF  KARRI LEE  BRITISH  COLUMBIA  NO. 4290	"I Certify that I have determined that this work was performed to an acceptable standard."
Karri Lee, RPF Planning Forester Okanagan Columbia Business Area	Aug. 24 <sup>th</sup> , 2018



# 8.0 Signatures of the Preparing Forester and the person required to prepare Major Amendment #2 to FSP ID#771, adding the CFA K3T

## 8.1 Signature of Preparing Forester

PROPESSION  PROVINCED  PROVINCED	"I Certify that I have determined that this work was performed to an acceptable standard."
Janet Beltz, RPF Planning Forester Okanagan Columbia Business Area	October 15, 2020



# 9.0 Signatures of the Preparing Forester and the person required to prepare Minor Amendment #3 to FSP ID#771, Paxton A70816 Visuals Amendment

## 9.1 Signature of Preparing Forester

	Preparing Forester
DIETER OVERMANN STATE OF THE PROPERTY OF THE P	"I Certify that I have determined that this work was performed to an acceptable standard."
<b>Dieter Offermann, RPF</b> Practices Forester Okanagan Columbia Business Area	October 20, 2021

A.	
Colin Johnston RPF, Timber Sales Manager Okanagan Columbia Business Area	October 20, 2021

# 10.0 Signatures of the Preparing Forester and the person required to prepare Major Amendment #4 to FSP ID#771, Visual Quality-Scenic Areas and Visual Quality Objectives

## **10.1 Signature of Preparing Forester**

	Preparing Forester
RICHARD HAMES GARNER BRITISH  COLUMBIA  NO. ADDITIONAL STREET OF THE STR	"I Certify that I have determined that this work was performed to an acceptable standard."
<b>Richard Garner, RPF</b> Planning Officer Okanagan Columbia Business Area	Aug. 30, 2022



# 11.0 Signatures of the Preparing Forester and the person required to prepare Minor Amendment #5 to FSP ID#771, Visual Quality-Scenic Areas and Visual Quality Objectives, update table 4.13.1 with an additional VLI polygon 2939

## 11.1 Signature of Preparing Forester

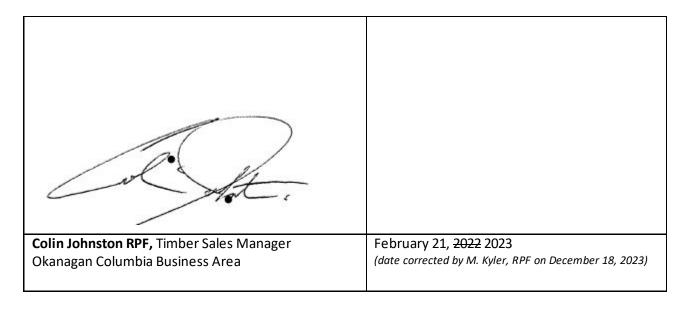
	Preparing Forester
RICHAD AMES GARNER COLUMBIA  OLUMBIA  NO. 4189	"I Certify that I have determined that this work was performed to an acceptable standard."
Richard Garner, RPF Planning Officer Okanagan Columbia Business Area	September 13, 2022

Att.	
Colin Johnston RPF, Timber Sales Manager Okanagan Columbia Business Area	September 13, 2022

12.0 Signatures of the Preparing Forester and the person required to prepare Major Amendment #6 to FSP ID#771, incorporation of Thompson Okanagan Regional Stocking Standards and Removal of Maximum Density for Free Growing Obligations

#### 12.1 Signature of Preparing Forester

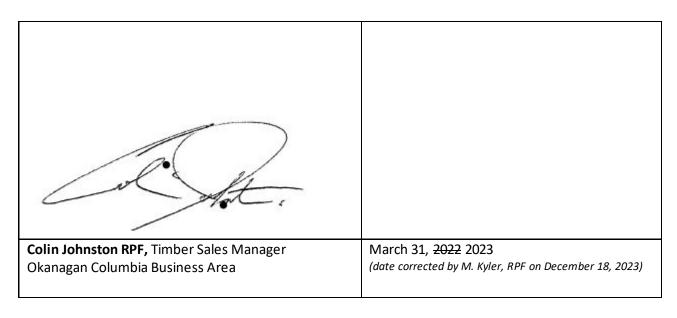
POFESSION OF MICHAELE KYLER COLUMBIA  VO. 3991	"I Certify that I have determined that this work was performed to an acceptable standard."
Michael Kyler, RPF Planning Officer	February 17, <del>2022</del> 2023
Okanagan Columbia Business Area	(date corrected by M. Kyler, RPF on December 18, 2023)



# 13.0 Signatures of the Preparing Forester and the person required to prepare Major Amendment #7 to FSP ID#771, Recreation – Rose Swanson Sensitive Area

#### 13.1 Signature of Preparing Forester

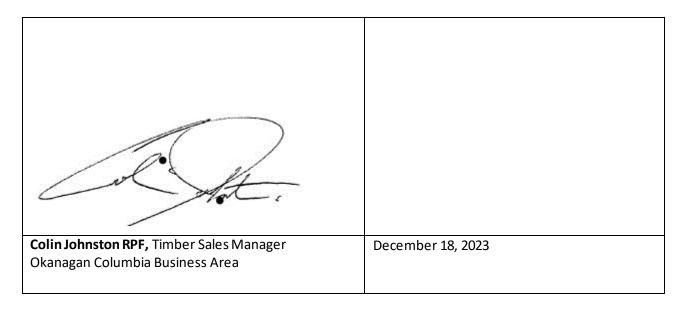
DE MICHAEUR KYLER  OF BRYTISH  COLUMBIA  VO. 3991	"I Certify that I have determined that this work was performed to an acceptable standard."
Michael Kyler, RPF Planning Officer	March 31, <del>2022</del> 2023
Okanagan Columbia Business Area	(date corrected by M. Kyler, RPF on December 18, 2023)



# 14.0 Signatures of the Preparing Forester and the person required to prepare Minor Amendment #8 to FSP ID#771, Extension of Term and Removal of "Unduly" clauses from Results and Strategies

#### **14.1 Signature of Preparing Forester**

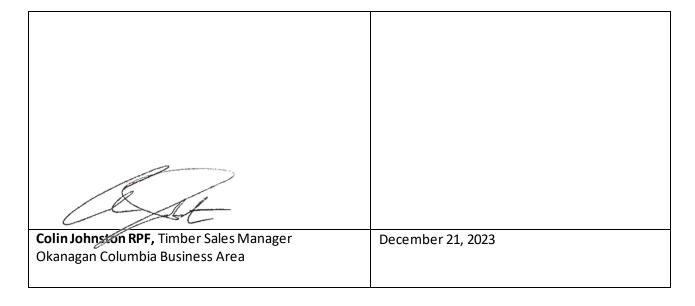
	Preparing Forester
MCHAEUR KYLER  OF MICHAEUR KYLER	"I Certify that I have determined that this work was performed to an acceptable standard."
Michael Kyler, RPF Planning Forester Okanagan Columbia Business Area	December 18, 2023



# 15.0 Signatures of the Preparing Forester and the person required to prepare Minor Amendment #9, Visual Quality-Scenic Areas and Visual Quality Objectives, update table 4.13.1 with additional VLI polygons

#### **15.1 Signature of Preparing Forester**

	Preparing Forester
GRACE CHOMITZ  BRITISH  COLUMBIA  MO. 4992	"I Certify that I have determined that this work was performed to an acceptable standard."
Grace Chomitz, RPF Planning Officer Okanagan Columbia Business Area	December 21, 2023



## **Appendices**

# Appendix A: BCTS FDU Locations within the Okanagan-Shuswap and Selkirk Natural Resource Districts

The following FDU maps have been submitted as accompanying documents and are a legal component of the FSP.

BCTS FDU Locations within Okanagan Shuswap and Selkirk Natural Resource Districts (Link)

Okanagan Shuswap Natural Resource District Forest Development Unit Map (Link)

Selkirk Natural Resource District Forest Development Unit Map (Link)

## **Appendix B: FSP Review and Comment**

- Okanagan-Shuswap and Selkirk Natural Resources District review and comment tracker
- Public review and comment summary report

The above noted documents have been submitted as accompanying documents and are a legal component of the FSP.

## Appendix C: Timber Sale Licences, Forest Service Roads, and Road Permits in Effect

In accordance with FPPR section 14, the following are the TSL's, FSR's and RP's granted or entered into by the agreement holder.

## Timber Sale Licences

FDU	Licence
Anstey	A92776
Banting/Kettle	A93605
Banting/Kettle	A93847
Banting/Kettle	A94413
Bigmouth	A79361
Bigmouth	A93026
Blackwater Rdige	A89950
Blackwater Ridge	A88176
Blackwater Ridge	A94445
Blackwater Ridge	A94448
BMX-Bigfish	A84024
Cascadia	A92778
Cascadia	A93266
Cascadia	A93765
Cascadia	A93944
Cascadia	A93945
Cascadia	A94567
Cascadia	A94927
Cascadia	A95692
Coldstream	A93415
Coldstream	A94411
Cooke	A91748

FDU	Licence
Echo	A94402
Esplanade	A93296
Frisby Ridge	A91998
Glen Lake	A92103
Golden	A81014
Graystokes	A93602
Graystokes	A93603
Graystokes	A93604
Graystokes	A94455
Graystokes	A94460
Graystokes	A94461
Graystokes	A94580
Graystokes	A95884
Ireland	A87954
Ireland	A89876
Ireland	A90635
Ireland	A93414
Lamberton	A89882
Mara-Sicamous	A86893
Mara-Sicamous	A93641
Mara-Sicamous	A93642
Mission	A91816

FDU	Licence
Mission	A94458
Mt. Seven	A45873
Mt. Seven	A94446
Mt. Seven	A95909
Naramata	A83282
Okanagan	A85292
Okanagan	A87652
Okanagan	A94389
Paxton	A93599
Skaha	A89396
Skaha	A90125
Skaha	A93010
Skaha	A93880
Skaha	A94454
Skaha	A94459
Skaha	A94810
Skaha	A95238
Smokeyhouse	A91999
Stitt-Normanwood	A95230
Swm	A76823
TFL 56 - BCTS	A91987
TFL 56-BCTS	A93767

Crazy	A94442
Currie	A91219
Currie	A93431
Drimmie	A92777
Drimmie	A92427

Mission	A93003
Mission	A93005
Mission	A93598
Mission	A93600
Mission	A93606

Wetask Lake	A90921
Wetask Lake	A95116
Wetask Lake	A95825
White Lake	A92440
White Lake	A93430
White Lake	A94684

Forest		
FDU	FSR	
Bigmouth	C 7764.05 (BIGMOUTH - BRANCH 20.5)	
Cascadia	C 9679.07 (KILLEEN)	
Coldstream	N KOXZ.01 (SLICK)	
Echo	N 1109.03 (CLIER LK)	
Echo	N K5C4.01 (DAY)	
Echo	N K763.01 (HAZEE)	
Graystokes	S 7654.136 [WEST MOORE]	
Graystokes	S 7654.153 [SWAY]	
Graystokes	S 7654.154 [OUTLAW]	
Harris	N 1031.35 [H300]	
Mission	S 8692.32 [RAWLINGS]	
Mission	S 8692.34 [SHADY]	
Mt. Seven	C 9092.01 (HORSE CREEK)	
Paxton	S 4076.11 [SHADOW]	
Skaha	S 7654.139 [MEURIG]	
Skaha	S 7654.144 [SCHOCHTER]	

e Roads (FSRs)	
FDU	FSR
Skaha	S 7654.145 [JILLIAN]
Skaha	S 7654.146 [GABBY]
Skaha	S 7654.147 [NOAH]
Skaha	S 7654.148 [COUGAR]
Skaha	S 7654.149 [COUGAR 100]
Skaha	S 7654.150 [K705.02]
Skaha	S 7654.151 [STAR]
Skaha	S 7654.152 [ROCK]
Skaha	S 7654.158 [ROCK 100]
Skaha	S 7654.88 (EASY)
White Lake	N 5653.20 [WHITELAKE SOUTH]
White Lake	N 5653.37 (ROSSOUW)
White Lake	N 5653.38 (LOWE)
White Lake	N 5653.39 (BARVIRE)
White Lake	N 5653.40 (WHILO)

		Road	Permits	(RPs)
FDU	RP			· -,
Banting/Kettle	S 10924.05 [K6R3-01]		1 1	K
Banting/Kettle	S 10924.06 [K6QM 01]		1 1	K
Banting/Kettle	S RP 93004-K70U.01/R2119	96	1 1	K
Banting/Kettle	S RP 93605-K5QF.01/R212	<del>7</del> 5	1	K
Banting/Kettle	S RP 91813-K6R0-ECE-01/R20	575	1	Mara
Barton	S RP 91808-K71D.01/R208	<del>7</del> 5	1	Mara
Bolean	S RP 93001-K6W7-01 /R206	43	1	Mara
Bolean	S RP 93001-K6WB-03 /R206	43	1 1	Mara
Chum	N RP 92449-K6XY.01/R207	12	1 1	Mara
Chum	N RP 92449-K6XY.02/R2071	12	1 1	Mara
Chum	N RP 92449-K6XZ.01/R2071	12	1 1	Mara
Chum	N RP 92449-K6XZ.02/R2071	12	1 1	Mara
Coldstream	N RP 93415-K1YR.01/R213	76	1	Mara
Coldstream	N RP 93415-K24U.01/R213	76	1 1	Mara
Coldstream	N RP 93415-K5BP.01/R213	76	1 1	M
Cooke	N RP 91748- K67A.01/ R211	18	1	M
Echo	N RP 91749-K5C5.01 / R204	95	1 1	M
Echo	N RP 91749-K5C6-5.01 / R20	495	1 1	M
Echo	N RP 91749-K5C6-5.01 / R20	495	1	Ok
Glen Lake	S RP 92103-K6SY.01A/R207		1	P
Graystokes	S 7654.137 (K6T0.ECE.01)		1	P
Graystokes	S 7654.138 (K6T0-01.01)		1	P
Graystokes	S RP 92102-K5T2-01/R2058		1	P
Graystokes	S RP 92102-K6T1-02/R2058		1	
Graystokes	S RP 92102-K6T1-03/R2058		1	
Graystokes	S RP 92102-K6T2-02/R2058		1 1	
Graystokes	S RP 93602-K6ZN.01/R2126		1 1	
Harris	N RP 92442 -K5ZF.01\R205		1 1	
Harris	N RP 92442 -K5ZF.02\R205		1 1	9
Harris	N RP 92442 -K5ZF.03\R205		1	9
Harris	N RP 92442-K5ZG-01\R205	68	1 1	9
Harris	N RP 92446-K5T8.01/R2070		1	9
Harris	N RP 92446-K5T8.02/R2070	06	1 1	9
Harris	N RP 92446-K6VS.02/R2070	06	1 1	9
Harris	N RP 93410-K5SG.01/R210	<del>5</del> 9	1 1	9
Harris	N RP 93410-K70X.01/R210	59	1	5
Harris	N RP 93410-K70Y.01/R210	59	1	5
Harris	N RP 93410-K710.01/R210	59	1	5
Harris	N RP 93410-K710.03/R210	59	1	5
Harris	N RP 93410-K710.04/R210	59	1	5
Harris	N RP 93410-K710.05/R210	59	1	5
Harris	N RP 93419-K72G.03/R212	54	1	5
Harris	N RP 93433-K70V.01/R209	54	1	9
Hlina	N RP 92448-K5D6.01\R206	14	1	5
Ireland	N RP 93414-K6XQ.01/R215	63	]	9
Kal Slopes	N RP 93411- K5B7.01/R211	17	]	9
Kal Slopes	N RP 93411- K5BE.01/R211	17	]	5
Kal Slopes	N RP 93411-K5XZ.01/R2113	17	]	5
Kal Slopes	N RP 93411-K5XZ.02/R2113	17	] ]	Wh

T FDU	DD.	
FDU Kwikoit	N DD 990E0 KEDD 01 /D20E49	
	N RP 88950-K5DD.01/R20548	
Kwikoit	N RP 88950-K5DD.02 N RP 88950-K5DE0.1/R20548	
Kwikoit		
Kwikoit	N RP 88950-K6SF.01/R20548 N 8255.03 [CAMBIE 100]	
Mara-Sicamous		
Mara-Sicamous	N RP 91750-K6E4.00 / R19677	
Mara-Sicamous	N RP 91750-K6E4.00 / R19677	
Mara-Sicamous	N RP 91750-K6E4.01 / R19677	
Mara-Sicamous	N RP 91750-K6E4.06 / R19677	
Mara-Sicamous	N RP 91750-K6PZ.01 / R19677	
Mara-Sicamous	N RP 91750-K6R2.00 / R19677	
Mara-Sicamous	N RP 91752-K2TX-00 /R20531	
Mara-Sicamous	N RP 91752-K6TB-00 /R20531	
Mara-Sicamous	N RP 93641-K6UW.01/R21451	
Mission	S 8692.28 [ECOLA]	
Mission	S RP 91815-K6NL-01/R20461	
Mission	S RP 91815-K6SG-01/R20461 S RP 93881-K6US.01/R21101	
Mission	-	
Okanagan Paxton	N RP 91753-K6VE.01 / R20046 S RP 64447 K4LE-01/R20439	
	•	
Paxton	S RP 64447-K4LE-02/R20439	
Paxton	S RP 93599-K6UR-01ECE/R20961	
Paxton	S RP 93599-K6V8-03 ECE/R20961	
Ross	N RP 93643-K3BL.01/R21143	
Ross	N RP 93643-K3BL.01/R21143 N RP 93643-K3BL.02/R21143	
Ross	N RP 93643-K3BN.01/R21143	
Skaha	S 7654.155 [SWITCH]	
Skaha	\$ 7654.155 [SWITCH] \$ 7654.156 [FLY]	
Skaha	\$ 7654.156 [FLY] \$ 8717.03 (PEAT BOG RD)	
Skaha	\$ 8717.03 (PEAT BOG RD)	
Skaha	S 8717.04 (K6PF)	
Skaha	S 8717.05 (K6SP-M2)	
Skaha	S 8717.05 (K6SP-M2)	
Skaha	S 8717.06 (K6SP-07A)	
Skaha	S 8717.07 (K6SP-05A)	
Skaha	S 8717.07 (K6SP-05A)	
Skaha	S RP 90125 K6K7-01A/R20755	
Skaha	S RP 90125 K6K7-02A/R20755	
Skaha	S RP 92100-K6V5.02/R20983	
Skaha	S RP 93006 K709.01/R20833	
Skaha	S RP 93006 K70A.01/R20833	
Skaha	S RP 93007 K6Z8.01/R20756	
Skaha	S RP 93007 K6ZE.01/R20756	
Skaha	S RP 93007 K6ZE.01/R20756	
Skaha	S RP 93007 K02E.02/K20736 S RP 93007 K71L.01/R20756	
Skaha	S RP 93007 K71L.01/K20756	
Skaha	S RP 93007 K71L.03/R20756	
White Lake	N RP 92441-K5EU.1 / R21303	
Time Lake	17 52 1.12 1.323.17 1.22303	

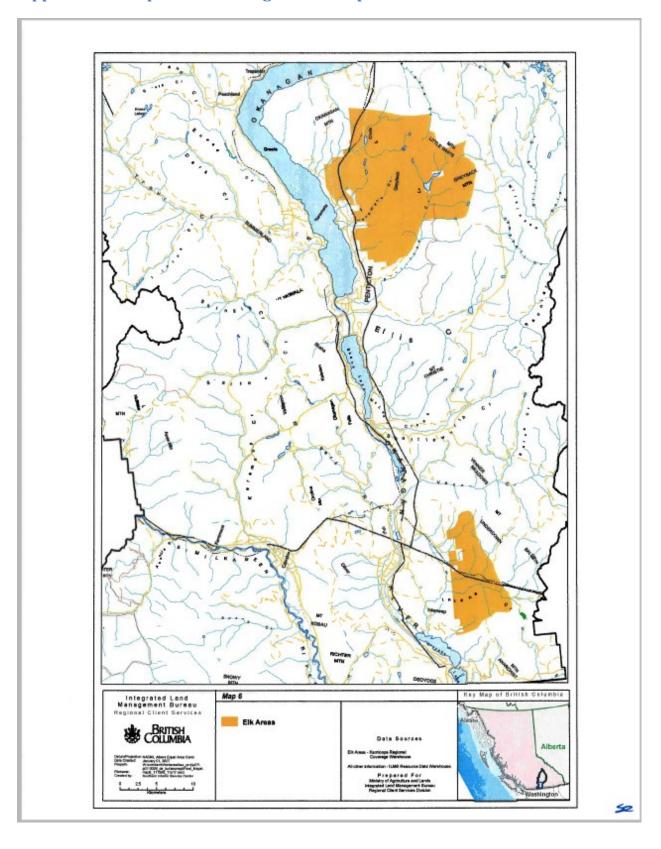
## **Appendix D: Declared Cutblocks and Roads**

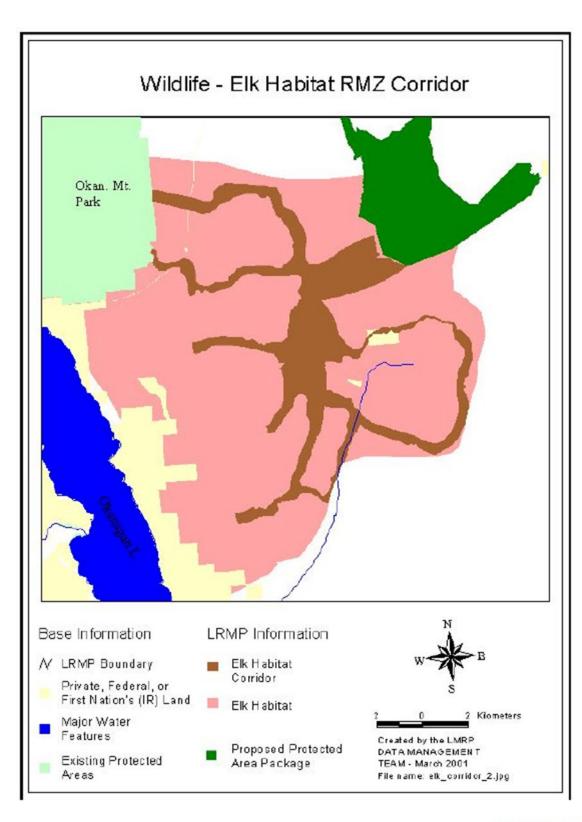
In accordance with FPPR section 14 (4)(b)the following are the cutblocks and roads where all activities and evaluations that are necessary in relation to inclusion of cutblocks and roads in the area have been completed.

Timber Sale Licenses	FDU (FSP #54)	FDU (FSP #771)	
A94456 - K6EZ, K6HT, K6HU, K772	Skaha	Skaha	
A95163 - K7FR, K7KX, K68S	Barton	Barton	
A89044 - K6F4, K6F5	Graystokes	Graystokes	
A94689 - K6QD, K6R7	Kettle	Banting Kettle	
A93601-K6ZK, K6ZM, K6ZL	Graystokes	Graystokes	
A92097-K4LF, K6UX	Paxton	Paxton	
A95047-K0X8, K1YX, KSCH, K78D, K78E, K7KD	Currie	Currie	
A93849-K0KM, K72X	Ross	Ross	
A95050- K4LM, K5BW, K62T,K5C1	Coldstream	Coldstream	
A93420-K71W, K71X, K71Y, K72F, K72J	Harris	Harris	
A94403-K6UZ, K6W2, K6W3	Skimikin	Skimikin	
K5C4, K71P, K762, K763	Echo	Echo	
A95228-K55R, K739	Shelter Bay	Cascadia	
A94920-K6F1, K6F3, K6RJ, K78U	Swan	Swan	
A95227-K1VE, K5TB	Nagle	Nagle	
A94443-K6MR, K72K	Bluewater	Bluewater	
A94443 - K6YQ, K6YZ	Blackwater Ridge	Blackwater Ridge	
A94449 - K6MK, K6ML, K668, K666, K6RG, K65W, K6MM,	Esplanade	Esplanade	
TA0137-K73C	Shelter Bay	Cascadia	
TA0236-K776	Shelter Bay	Cascadia	
TA0229-K73L, K73H, K73J	Shelter Bay	Cascadia	
A84538-K68Q	Bigmouth	Bigmouth	
K5TR, K62Y	Stitt Norman wood	Stitt Norman wood	
A95940-K730 K73P	Kettle	Banting Kettle	
A94380-K7HS	White Lake	White Lake	
Forest Service Roads and Road Permits	FDU (FSP #54)	FDU (FSP 771)	
S 7654.144 [SCHOCHTER]	Skaha	Skaha	
S 7654.145 [JILLIAN]	Skaha	Skaha	
S 7654.88 [EASY]	Skaha	Skaha	

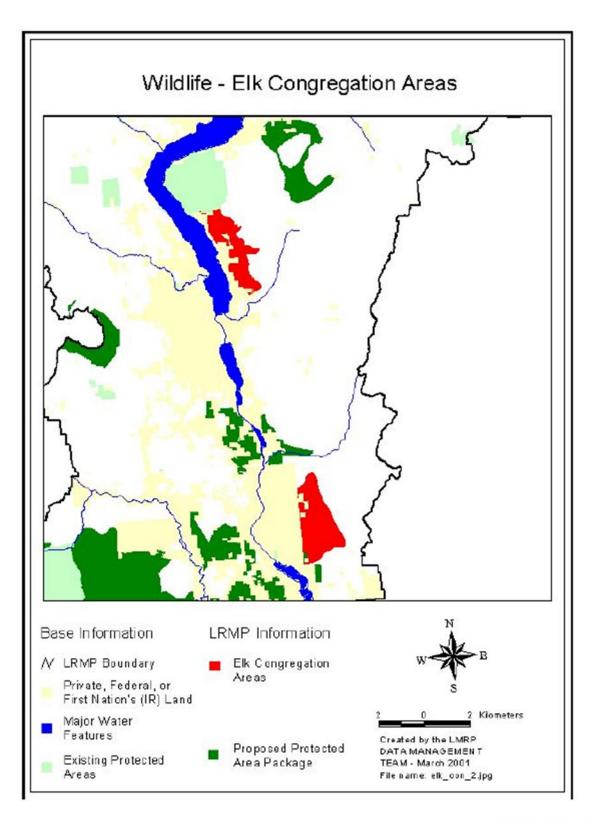
S 8435.34 [ASPEN]	Graystokes	Graystokes
S 8435.35 [POPLAR]	Graystokes	Graystokes
S K6R7.01	Kettle	Banting Kettle
S K6QD.01	Kettle	Banting Kettle
S K6QD.02	Kettle	Banting Kettle
S 8787.02 (Naramata Canyon)	Naramata	Naramata
S K6ZK.02 (strahl)	Graystokes	Graystokes
S K6ZK.01 (Strahl)	Graystokes	Graystokes
A94641 K7L8 RW-Argont	Bigmouth	Bigmouth

Appendix E: Maps from Okanagan Shuswap Land Use Order and Plan

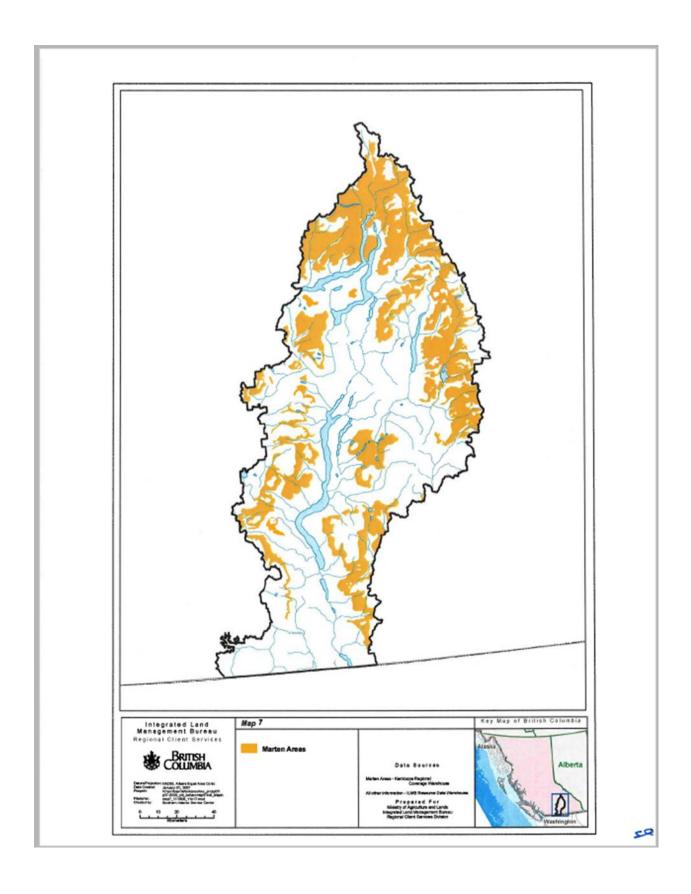


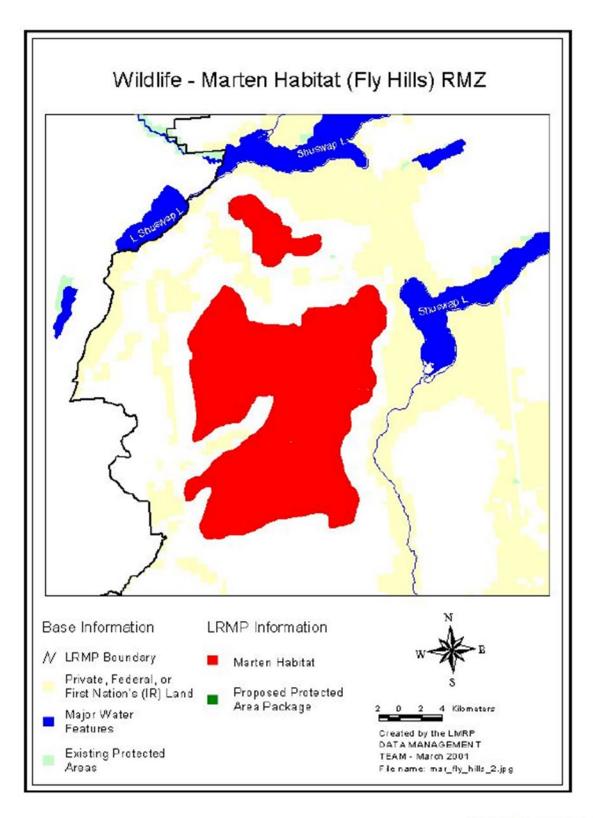


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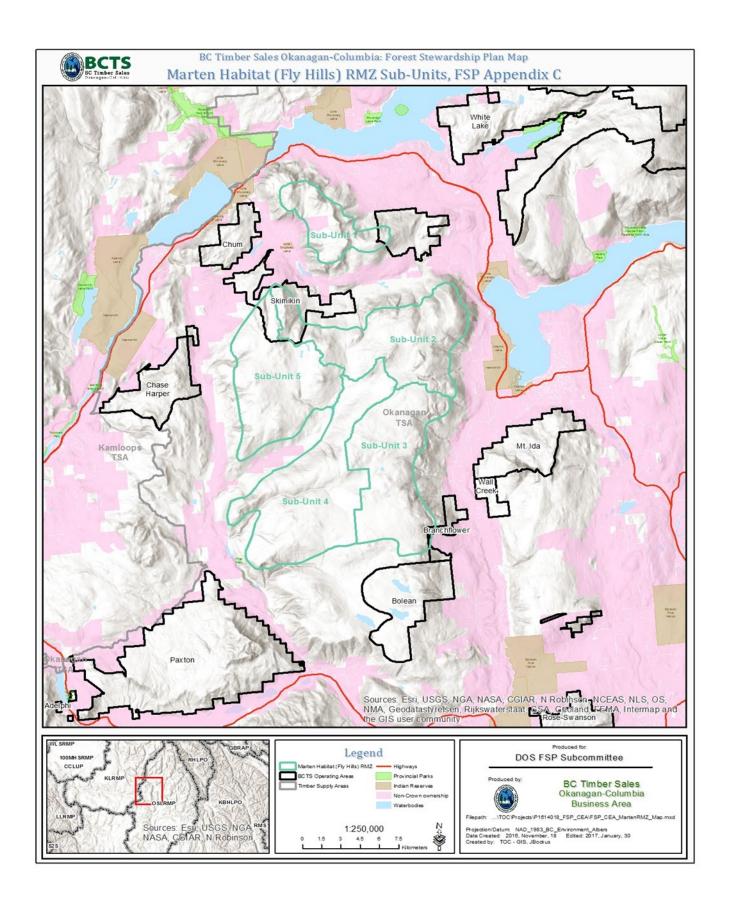


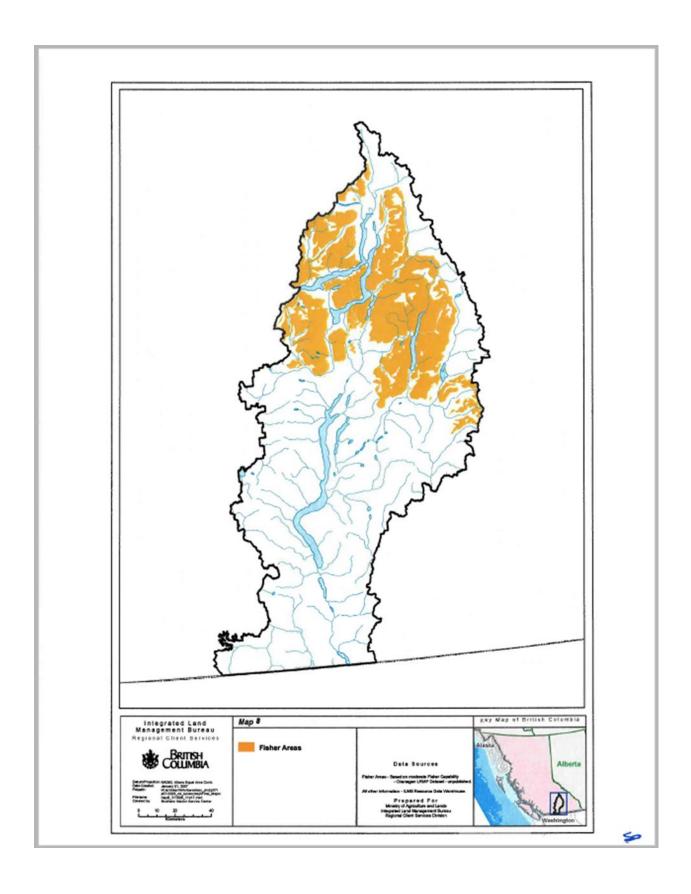
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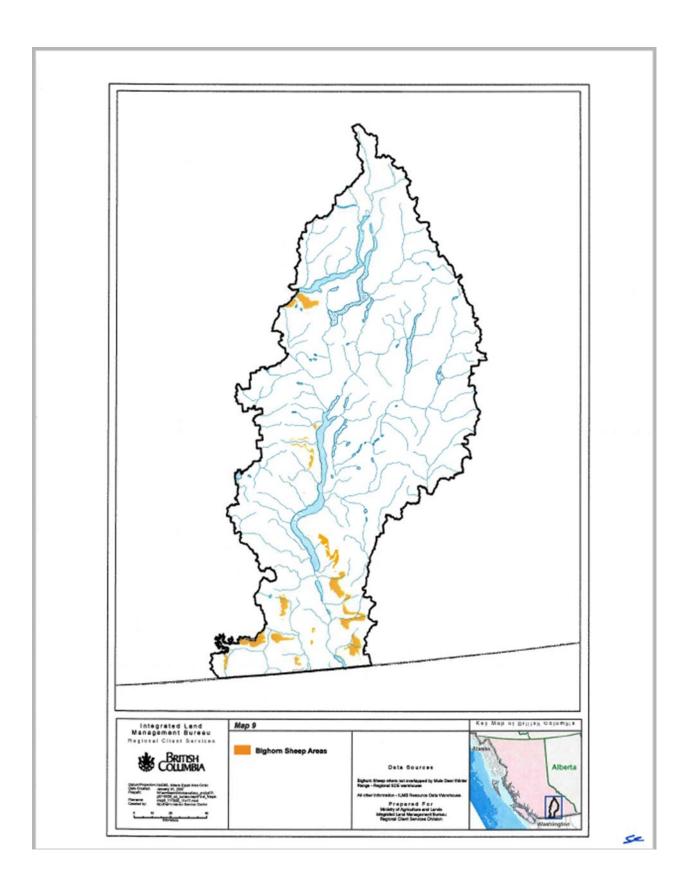




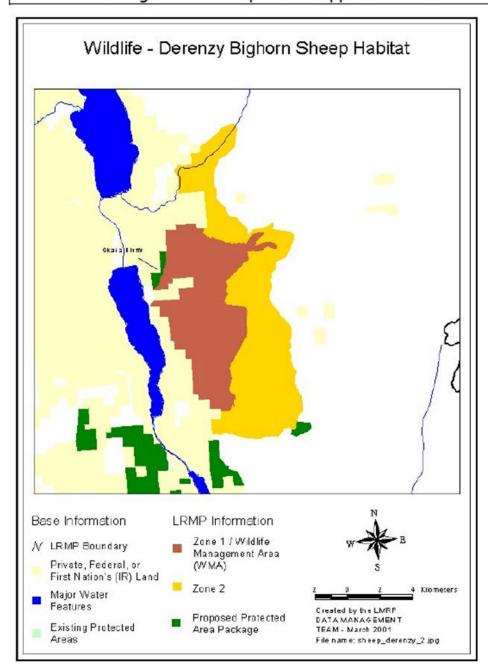
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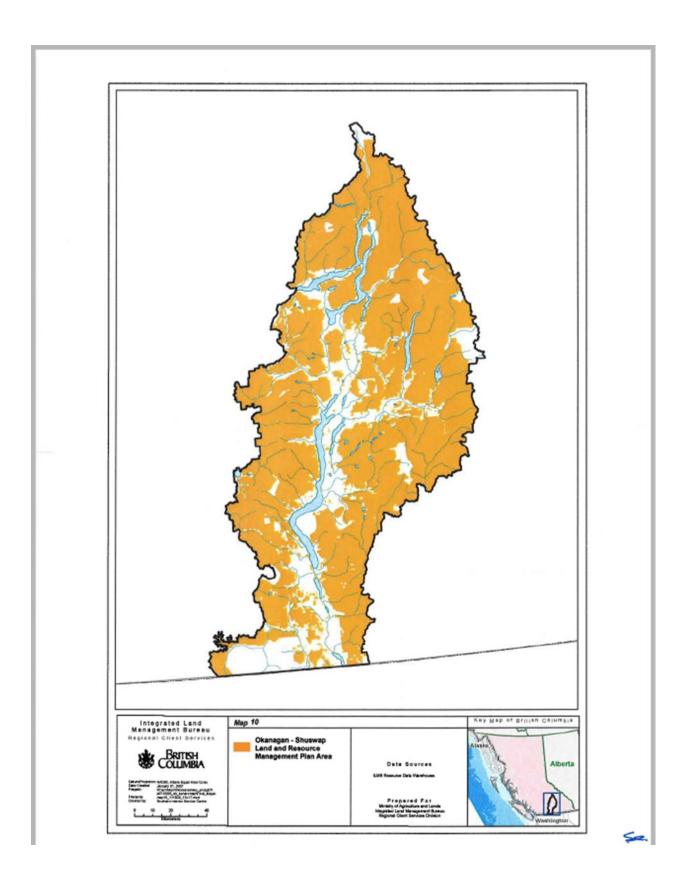




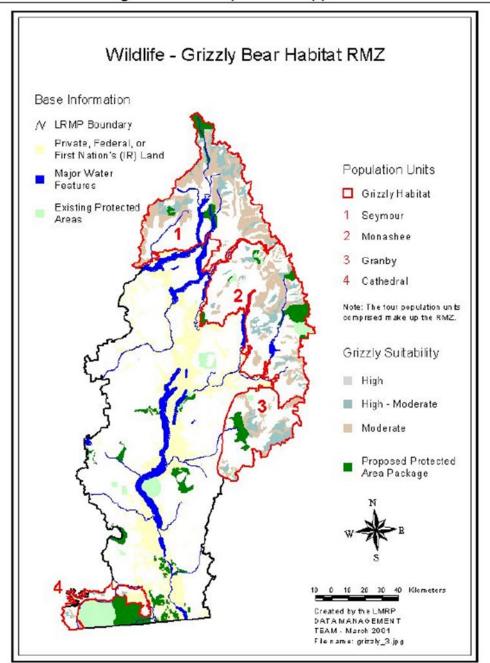
# Okanagan - Shuswap LRMP Approved Plan



WILDLIFE\_DERENZY 4-7

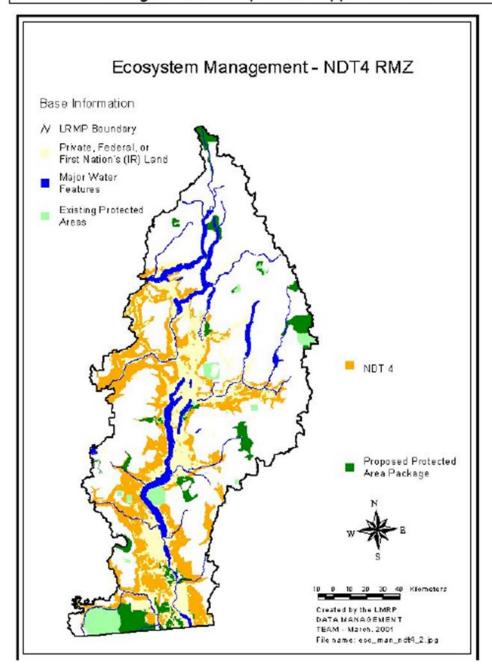


# Okanagan - Shuswap LRMP Approved Plan

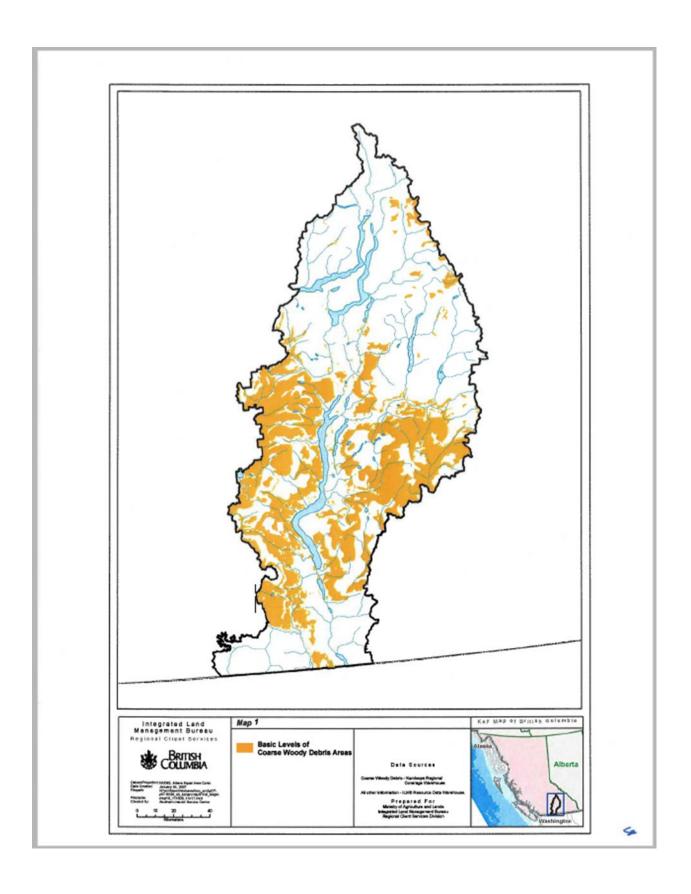


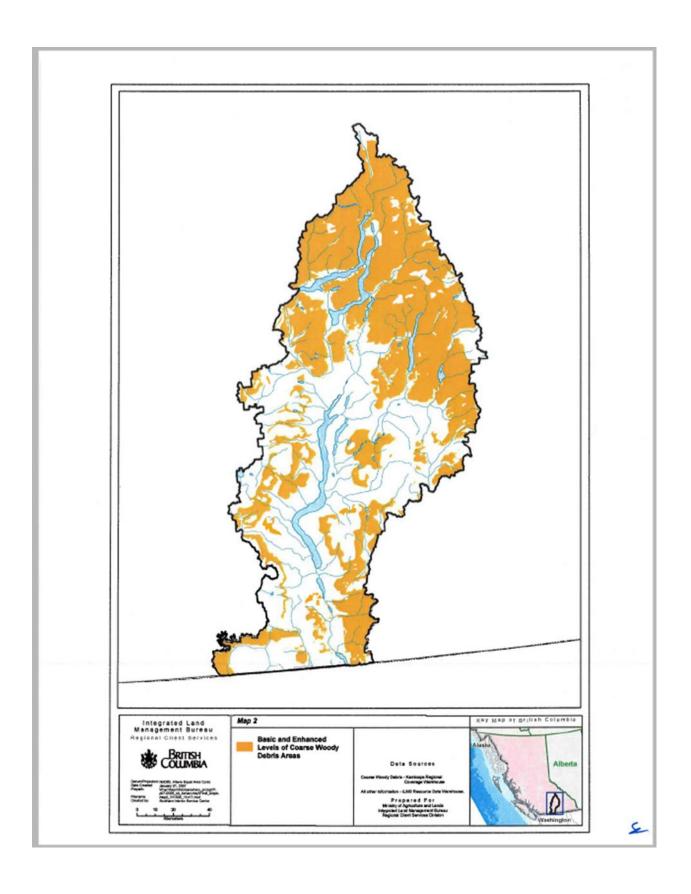
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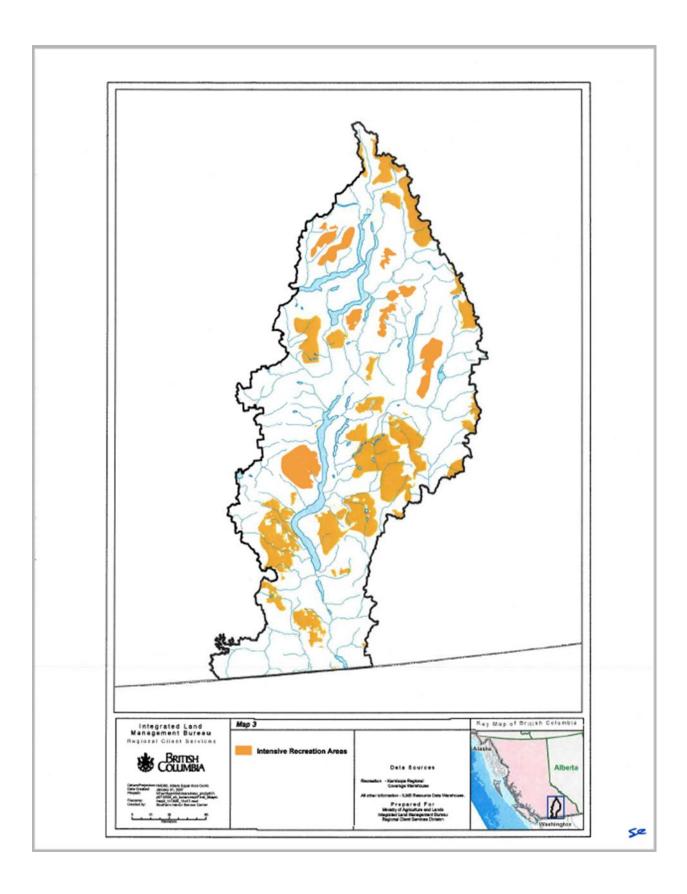


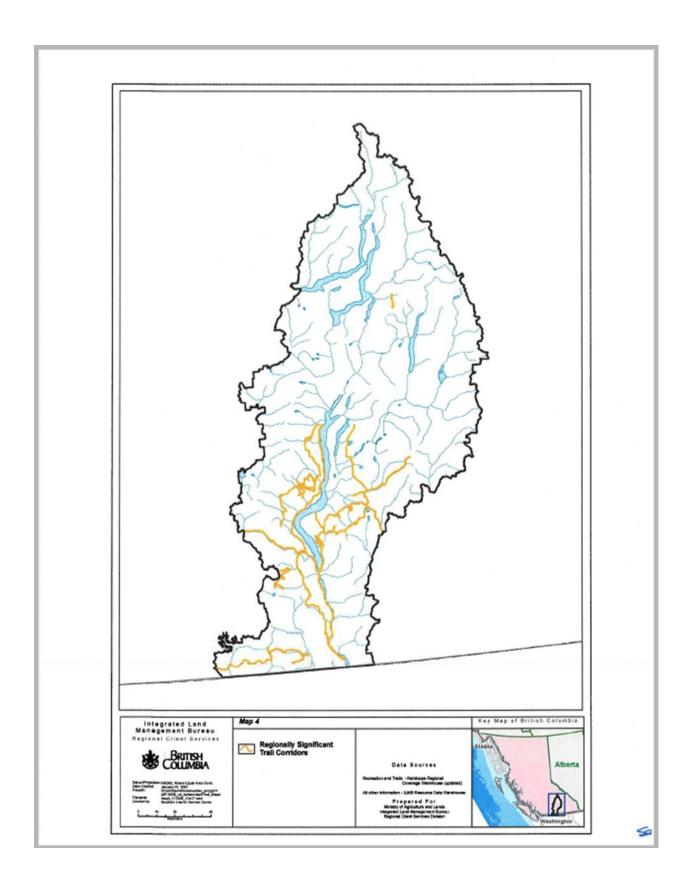


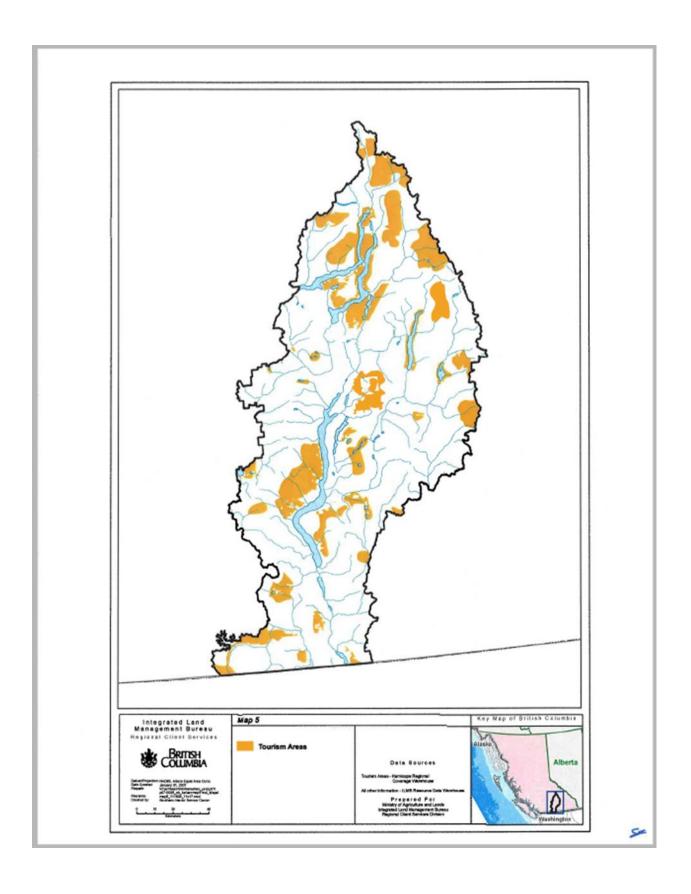
NDT4 4-14











# Appendix F: The OSLRMP and the Wildlife Retention Targets Letter from District Manager



File: 10194-60

June 20, 2005

To: All Major Licensees in the Okanagan Shuswap Forest District (OSFD)

and the Okanagan-Columbia Timber Sales Office

Dear Sir / Madame:

Re: Wildlife Tree Patches (WTP)

In 1996 and 1997 the 3 former Okanagan Shuswap Forest Districts had separate DM policy letters all targeting 9% WTP retention at the stand level. This 9% figure came from interpolating from table 20(b) of the Biodiversity guidebook (% of cut block area required as wildlife tree patches when landscape units have not been designated) and from Appendix D of the OK TSA AAC Analysis document which estimated that 70% of the productive area was available for harvest and of that 20% had been harvested. The intent was to use the 9% target until such time as Landscape Units and Objectives were established for the Okanagan Shuswap Land Resource Management Plan (OSLRMP).



The Ministry of Sustainable and Resource Management (MSRM) has been working to have landscape units declared. They have also prepared draft wildlife tree retention targets consistent with table 20(a) of the biodiversity guidebook for BEC subzones within these landscape units.

For landscape unit BEC subzones that MSRM has prepared draft wildlife tree retention targets licensees are to switch from the 9% default to the new draft retention targets. For landscape unit BEC subzones that do not as yet have draft wildlife tree retention targets licensees are to continue using 9%. As MSRM recommends new draft wildlife tree retention targets for other landscape unit BEC subzones licensees are to plan for the new targets.



The wildlife tree patches will continue to be tracked by the Licensee.

WTP placement will take direction from the latest provincial WTP policy as agreed upon in the LRMP. The current policy is dated February 2000. A new policy is in draft form and should be out soon.

Accounting guidance: (using a 9% target as an example). If the NAR in a proposed block is 10-hectares then 0.9 hectares is to be added to it as a WTP.

Page 1 of 2

Ministry of

Okanagan Shuswap Forest District

Location: 2501 14<sup>th</sup> Ave, Vernon Mailing Address: 2501 – 14<sup>th</sup> Avenue Vernon, BC V1T 8Z1

Tel:

(250) 558-1700 (250) 549-5485 Major Licensees & BCTS-TOC

The attached spreadsheet shows the current WTP patch targets for the 17 Landscape Units that have been signed off under the section 8 non-spatial order. The spreadsheet will be updated as other Landscape Units are signed off.

If you have any questions on the above, please contact Eric Goodman at 558-1700 or Frank Rowe from the Ministry of Sustainable and Resource Management (MSRM) at 371-6222.

Dated

Yours truly,

Ron Racine District Manager

Okanagan Shuswap Forest District

Note MSRM is no longer a Ministry and be an agency of the Ministry of Agriculture and Lands.

Attachment.

Page 2 of 2

#### Appendix G: Old Growth Management Area Guidance Thompson Okanagan (ILMB)

#### Old Growth Management Area Guidance Thompson Okanagan August 2007

#### Intent of this document

This document is intended to serve as guidance for managing areas identified as contributing to old growth and biodiversity objectives within the Kamloops, Okanagan, Merritt and Lillooet timber supply areas. Where non-legal spatially identified old growth management areas (OGMAs) are used to achieve old growth retention goals, it is appropriate to provide operational flexibility while assuring that the overall effectiveness of old forest conservation and biodiversity in the area is not diminished. This document identifies a permissible amount of disturbance that can occur within an OGMA without losing significant old growth and biodiversity values and suggests the conditions under which this can occur. This document also proposes situations when it may be appropriate to have replacement areas identified and outlines criteria for such areas.

#### Reasons why harvesting might occur in an OGMA

Notwithstanding that the overall goal is to retain original OGMAs as much as possible, there are circumstances where harvesting might be justifiable and the location of OGMAs may be amended. These include: o changing the boundary to improve OGMA and timber management or to better reflect logical, on the ground boundaries (e.g., use physical features such as roads, streams, old block boundaries or timber types); o improving harvest boundary alignment in a way that will contribute to the maintenance of the OGMA (e.g., to secure a more wind-firm boundary); o shifting the location of the contiguous area of the OGMA to improve the retention of old forest attributes as identified through a field assessment; o relocating the OGMA to capture old growth and/or biodiversity values better (e.g., where old seral or biodiversity values outside of an OGMA are found to exceed old seral or biodiversity values inside); o where there exists a compelling rationale to harvest and the incursion is minimal or an ecologically equivalent (equal or better old seral and biodiversity values) replacement opportunity exists; and, o where the incursion is significant, but there exists a compelling rationale and activities demonstrate reasonable consistency with the desired old seral conditions and will maintain biodiversity values.

#### What to consider prior to harvesting in an OGMA

To ensure that the overall effectiveness of old forest conservation and biodiversity is not diminished, ILMB recommends that the following best practices be considered prior to harvesting: o minimize long-term site disturbance and/or detrimental impacts to site productivity; o maintain, restore, or enhance old seral forest attributes; o retain relatively old, large, live and/or dead trees, and large pieces of coarse woody debris; o avoid compromising rare ecosystems; o avoid compromising forest interior habitat conditions; o where appropriate, restock openings created with climax tree species suited to the site; and, o plan activities so the OGMA is not unnecessarily predisposed to increased risk of wind-throw or forest health problems.

#### OGMA amendment scenarios: OGMAs are retained or replaced

1. Timber harvesting is within limited incursion thresholds – OGMA is retained Within the mapped areas of an OGMA, up to 10 hectares or 10% of the area of the OGMA, whichever is less, may be disturbed by timber harvesting for one or more of the following purposes: a) to enhance or maintain an interpretive forest site, recreation site, recreation facility or recreation trail, where there are no other practicable options; b) to facilitate range development, maintenance and related activities where there are no other practicable options; c) to allow road construction and maintenance where there are no other practicable options; d) to manage for forest health where trees within the old

growth management area pose a significant forest health risk to forests outside the old growth management area and where harvesting constitutes an appropriate and effective control action; e) to address a public or industrial safety hazard where no practicable alternative exists (e.g., danger tree or fire hazard); f) where the incursion is limited to 50 metres and the purpose is to establish a logical boundary for timber harvesting operations, and where the intent is to use physical or administrative features that will not compromise the long term management of the old growth management area; or

Old Growth Management Area Guidance Thompson Okanagan August 2007 g) to improve harvest boundary alignment in a way that will contribute to the maintenance of the OGMA (e.g., to secure a more wind-firm boundary). Activities conducted under these items should demonstrate consideration of desired old seral conditions and biodiversity values. OGMA is retained; no replacement is necessary.

- 2. Timber harvesting exceeds limited incursion threshold and consistency with desired old seral conditions can be demonstrated OGMA is retained Within the mapped area of an OGMA, timber harvesting that exceeds the limited incursion threshold may occur if a compelling rationale exists and activities can demonstrate consideration of desired old seral conditions and biodiversity values. OGMA is retained; no replacement is necessary. Plans to selectively harvest within an OGMA in order to reduce a fire hazard would be a reasonable scenario under this item. Removing only the dead and dying trees, keeping ground disturbance to a minimum and retaining all other tree species would demonstrate consideration of the old seral conditions and biodiversity values.
- 3. Timber harvesting exceeds limited incursion and consistency with desired old seral conditions cannot be demonstrated OGMA is replaced. Within the mapped area of an OGMA, if timber harvesting exceeds a limited incursion and cannot demonstrate reasonable consistency with the desired old seral conditions and maintain biodiversity values, the forest agreement holder should identify and reserve from harvest an alternative area (or areas) as a replacement OGMA. See replacement criteria for more detail.
- 4. Amendment to an OGMA location where biodiversity values can be improved OGMA is replaced Amendments to the location of an OGMA to improve the retention of old forest attributes and biodiversity values can be made if the new location can be demonstrated as being biologically better (i.e., an improvement in location, size, age, tree species and wildlife habitat value). See replacement criteria for more detail. For example, OGMA locations may be amended where biodiversity values and caribou habitat values (as per Kamloops Land and Resource Management Plan: Appendix 10) are maintained or improved and where timber supply impacts can be mitigated.

#### How to select a replacement OGMA

Replacement OGMAs should meet the replacement criteria outlined below: o Size, shape, age, connectivity and interior habitat should approximate or be an improvement upon the original OGMA; o Replacement OGMAs should provide equivalent biogeoclimatic representation to the subzone level as the original OGMA; o The site units of the replacement OGMA (e.g. moist to dry, slope, aspects and tree species) should approximate the original OGMA; o Consider present and future forest health conditions when selecting replacement areas. Avoid stands that have or are likely to have forest health problems; o Transfers should not result in new OGMAs in areas with higher levels of human disturbance; and, o Transfers should only be made within landscape unit or between adjacent landscape units. Overall targets across the planning area should be maintained. Distance between the original and replacement OGMA should be minimized. Note: Original OGMAs with high wildlife habitat values, rare or uncommon forest types, and/or riparian habitat values, are not considered preferred candidates for removal.

#### **Definitions**

In this document: o biodiversity is "the diversity of plants, animals and other living organisms in all their forms and levels of organization, and includes the diversity of genes, species and ecosystems, as well as the evolutionary and functional processes that link them" (FPC Biodiversity Guidebook, 1995). o desired old seral conditions are those ecological conditions that are characteristic of old seral forests – i.e. "old seral is a forest that contains live and dead trees of various sizes, species, composition, and age class structure. Old seral forests, as part of a slowly changing but dynamic ecosystem, include climax forests but not sub-climax or mid-seral forest" (FPC Biodiversity Guidebook, 1995). o limited incursion means up to 10 hectares or 10% of the mapped area of the OGMA, whichever is less, may be disturbed by timber harvesting over a 5 year period without the need for the identification of a replacement area. The accumulation of harvesting over a 5 year period within the same OGMA must be taken into account. o old growth management areas are "areas that contain or are managed to replace specific structural old-growth attributes, and that are mapped out and treated as special management areas" (FPC Biodiversity Guidebook, 1995).

Old Growth Management Area Guidance Thompson Okanagan August 2007 o practicable includes consideration for being both practical and reasonably economically feasible. o proposed replacement old growth management areas are those areas proposed to replace an established old growth management area and will be set aside from harvesting. o recreation includes commercial and non-commercial related developments, including ski or snowmobile trails and associated infrastructure. Or significant forest health risk in an OGMA is where the forest health problem within the OGMA poses a significant forest health risk to forests outside the old growth management area.

### Appendix H: Visuals Results and Strategies Support Information

#### FSP# 771 Amendment #4 rationale

Rationale for alternate strategy in wildfire damaged scenic areas Section 4.13 (3.)

Extensive wildfires in the summer of 2021 within BCTS Okanagan-Columbia operating areas caused extensive damage to timber within scenic areas in the following FDUs: Adelphi, Mara-Sicamous, Paxton, Skaha and TFL 49. Consistent with section 25.1(1) of the Forest Planning and Practices Regulation (FPPR), it is not practicable under the circumstances or conditions applicable to the area to fully meet each of the established VQO attributes regarding scale, shape and acuity in some of the scenic areas in carrying out timber salvage harvesting objectives. This amendment proposes an alternate strategy for VQOs that will allow harvesting of wildfire damaged timber within specified scenic areas (VLI polygons) while varying the visually altered condition to increase the scale and acuity of the development while continuing to use design principles which include natural design elements that are not linear or geometric in shape. This amendment commits to achieving a maximum of large-scale alterations or alterations that are in most cases one level above (two instances of a two level increase) the scale and acuity levels are consistent with FPPR 1.1 categories of visually altered forest landscape and as described in 4.13 (3) and Table 4.13.1.

Example Table 4.13.1 \*\*\* Note additional FDU's, wildfires and VLI polygons may be added to this table as a minor amendment within the Okanagan Shuswap District.

FDU/	Wildfire	VLI	Established	Scale	Acuity (allowable
Operating	Identification	Polygon	VQO	(allowable	extent)
Area				extent)	
Adelphi/TFL	K61884	1606	Retention	Medium in scale	Easy to see
49					

#### Background:

The objectives set by government for visual quality in scenic areas are the established Visual Quality Objectives, applied in accordance with FPPR section 1.1 (Categories of visually altered landscapes).

VQOs in FDUs including operating areas; Adelphi, Mara-Sicamous, Paxton, Skaha and TFL 49 were established under the Okanagan Shuswap Land and Resource Management Plan (April 11, 2001 non HLP) defined as "Zone 1" areas. These areas were declared as scenic areas with established VQOs under the Forest Practices Code and carried forward as objectives by government.

#### **Definitions**

#### FPPR "scenic area" means a scenic area

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

**Scenic Area** – Is any visually sensitive area or scenic landscape that is identified through a visual landscape inventory or planning process carried out or approved by the district manager. The procedures for managing visual or scenic values in these areas will depend on whether formally established visual quality objectives exist or not as defined in the Visual Assessment Guidebook.

#### FPPR "visual quality objective" means

- a) an objective continued, in respect of a scenic area, under section 181 of the Act,
- b) an objective established for a scenic area under the Government Actions Regulation, or
- c) a visual quality class continued, for a scenic area, under section 17 of the Government Action Regulation.

**Visual Quality Objectives** – Is a resource management objective that reflects the desired level of visual quality based on the physical characteristics and social concern for the area. These objectives are established by the district manager or are contained in a higher-level plan as defined in the Visual Assessment Guidebook.

#### FPPR "altered forest landscape" means a forest landscape that

- a) is viewable from a significant public viewpoint,
- b) contains cutblocks or roads, and
- c) is in one of the categories prescribed under section 1.1.

An altered forest landscape is generally evaluated at the landscape level and may involve multiple cutblocks, viewpoints and different licensees. Examples of evaluation areas of an altered forest landscape may be a long stretch of highway corridor, and entire valley, a lakeshore, etc.

"Categories of visually altered forest landscape" are defined under FPPR section 1.1 and are defined by measures of attributes including:

- a) Scale (or size);
- b) Ease of seeing (visibility, acuity); and
- c) Shape (appearance or design).

Alteration Category	FPPR 1.1 (See FPPR 1.1 for exact definition)	Non-legal Percent Alteration Perspective View* Guidelines from Table 3 FREP visual quality protocol and Visual assessment guidebook.
Preservation	Very small in scale, and not easily distinguishable from the pre-harvest landscape.	0
Retention	Difficult to see, small in scale, and natural in appearance.	0 – 1.5
Partial Retention	Easy to see, small to medium in scale and natural and not rectilinear or geometric in shape.	1.6 – 7.0
Modification	Very easy to see, large in scale, and natural in its appearance, or small to medium in scale but with some angular characteristics.	7.1 – 18.0
Maximum Modification	Very easy to see, very large in scale, rectilinear and geometric in shape, or both.	18.1 – 30.0

<sup>\*</sup>the specified values are not hard numerical limits, upper numerical limit can be exceeded with good design and rationale.

Visual Guidance to QP's for additional information for Scale

Visual Galdance to Q1 5	jor additional injornation for Scale
Alteration Category	FPPR Scale or Size
Preservation	Very small in scale
Retention	Small in scale
Partial Retention	Small to medium in scale
Modification	Large in scale
Maximum Modification	Very large in scale.

Visual Guidance to QP's for additional information for visual acuity

	FPPR "ease of seeing"	VIA Guidebook "what can be	Visual Landscape Design
Alteration Category		seen"	Training
	Not easily distinguishable	Non-visible	Not visually apparent
Preservation	from the pre-harvest		
	landscape		
	Difficult to see	Not visually evident	Requires much effort or
Retention			skill to discern visually
	Easy to see	Visible but subordinate	Able to discern visually
Partial Retention			without great effort or
			difficulty
	Very easy to see	Visually dominant	Able to discern visually
Modification			with little effort or
			difficulty
	Very easy to see	Visually dominant	Able to discern visually
Maximum Modification			without any effort

Fire salvage blocks and roads will have visual evaluations and/or visual impact assessments completed by a Qualified Professional similar to development proposed in non-fire impacted scenic areas for the resultant visually altered landscape and the assessments will include design elements from the 1994, Visual Landscape Design Training Manual incorporating design principles such as:

- Landform and land feature analysis;
- Follow natural boundaries with harvest design while avoiding straight or rectilinear shapes;
- Rounded, curvilinear shapes in rounded landforms;
- Irregular boundaries:
- Organic interlocking shapes;
- Retention of single trees and patches of various sizes within the blocks including live and dead trees to aid in and provide screening opportunities and visual structure.

Due to the extent and conditions of the extreme summer 2021 fire events to timber in BCTS operating areas in the Okanagan-Shuswap BCTS is not able to commit to meeting the scale and acuity requirements for the VLI polygons. Landscape level timber damage caused by the 2021 wildfires and when combined in some instances with pre-existing alterations that were a result of past harvesting, it is not practicable for BCTS to achieve the scale or acuity attributes of the established VQOs. In most instances BCTS has alternately proposed and commits to be one level above the recommended scale and acuity requirements (i.e. going from small to medium in scale or medium to large in scale) for allowable extent and for acuity (i.e. going from difficult to see to easy to see, or easy to see to very easy to see) while still meeting requirements for development design of having natural in appearance boundaries. In two instances in VLI polygon 794 located in the Skaha FDU and VLI polygon 1863 in TFI 49 FDU BCTS is proposing to go from small in scale and difficult to see to Large in Scale and very easy to see due to the severe and extensive size of the fire in these polygons. In these two instances BCTS commits to leaving of patches of live and dead timber to help meet the established VQO objective to the extent practicable. BCTS is committed to mitigating visual impact in these fire-salvage units as a priority, and the increase in scale will be balanced by other measures such as committing to natural design and retaining patches of dead and live timber for structural diversity compensating for the increase in scale and softening the visual impact. Larger harvest units designed carefully will reduce fragmentation within VLI polygons and result in more rapid green up with prompt reforestation improving longer term visual impacts. BCTS also is working in collaboration with First Nations on retention strategies within the blocks which will in turn mitigate visual impacts and protect other values such as wildlife and water.

BCTS intends to use section 3 results and strategies for any additional future large scale fires, or for potential purchase volume from fires and other VLI polygons that have sustained fire damage and are determined to not fully meet the VQO objectives. BCTS will add any relevant information for these instances to table 4.13.1 as a minor amendment within the Okanagan Shuswap District.

BCTS FSP utilizes guidance for predicting VQO's and references Tables 2 and 6 of the Visual Impact Assessment Handbook, Forest and Range Practices Act, May 2022; and/or the Protocol for Visual Quality Effectiveness Evaluation Procedures and Standards, FREP, 2008 (tables referenced below); and estimating the likely resulting VQO using the descriptive categories of visually altered forest landscape as defined in FPPR Section 1.1.

Table 2. RELATIONSHIP BETWEEN VQO, SCALE, AND PERCENT ALTERATION

vqo	SCALE (FPPR S. 1.1)	MOST PROBABLE % LANDFORM ALTERATION
Preservation	Very small	0%
Retention	Small	0-1.5%
Partial retention	Small to medium	1.6-7%
Modification	Large	7.1-18%
Maximum modification	Very large	18.1-30%

Table 6. VISUAL EQUIVALENT TO CLEARCUT PERCENT ALTERATION FACTORS FOR PARTIAL-CUT ALTERATIONS

				MEAN	HEIGHT (	(M) OF R	ESIDUAL	TREES			
		5	10	15	20	25	30	35	40	45	50
	10	0.1	0.2	0.4	0.6	0.7	0.8	1.0	1.2	1.8	2.2
	20	0.3	0.4	0.7	1.0	1.2	1.4	1.8	2.2	3.3	4.4
(%)	30	0.7	0.9	1.2	1.4	2.0	2.4	3.3	4.2	5.0	6.5
Volume removed (%)	40	1.2	1.4	2.0	2.4	3.4	4.3	5.2	6.1	6.7	7.8
ıme re	50	1.8	2.3	3.4	4.3	5.2	6.2	6.8	7.7	8.4	9.0
Volt	60	3.5	4.3	5.0	6.2	6.7	7.7	8.4	9.2	10.0	11.5
	70	4.9	5.5	6.5	7.7	8.4	9.2	10.0	11.4	12.7	14.0
	80	6.0	6.6	8.3	9.2	10.0	11.0	12.0	13.2	14.4	15.5
	90	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0

Note: The shading in Table 6 highlights VQC classes, with the unshaded portion representing expected achievement of retention (R), the mid-shade representing achievement of partial retention (PR), and the dark shade representing expected achievement of modification (M). Since there is a 50% confidence level in the visual equivalent to clearcut alteration numbers, results near the VQC boundaries will have considerable uncertainty attached to them.

# Appendix I: Recreation Features and Objectives

	Table I1: Recreation Sites &Trails with Objectives within FDUs under this FSP.													
Proj No.	Project Name	Туре	Estab. (yr/m/d)	Dist.	Map (NTS)	Size (ha)	Length (km.)	GPS (Plot)	Lands (File)	Parks (File)	Objectives	FDU	TSA	
2056	Bluewater Bridge	Site	97/01/02	DCO	82N11	68	-		240305	1-3-3- 016	1998/01/30. The objective is to manage the Bluewater Bridge recreation site for a moving water recreation experience. The campsite will be maintained; the river shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and river boating will be available at the site	Blackwater Ridge	Golden	
2060	Susan Lake	Site	00/09/29	DCO	82N11	133.5	-		320811	1-3-3- 045	1998/01/30. The objective is to manage the Susan Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved.  Opportunities for camping, picnicking, and boating will be available at the site.	Blackwater Ridge	Golden	
2068	Jeb Lake	Site	97/01/02	DCO	82N11	52.6	-		332406		1998/01/30. The objective is to manage the Jeb Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved.  Opportunities for camping, picnicking, and boating will be available at the site.	Blackwater Ridge	Golden	
2081	Blackwater Lakes	Site	00/04/20	DCO	82N11	789	-		240304	1-3-3- 028	2001/03/22 The objective is to manage the Blackwater Lakes Recreation Site for a roaded recreation experience. The campsites will be maintained; the creeks and lakes shorelines and natural vegetation will be conserved. Opportunities for camping, picnicking, boating, and swimming will be available at the site.	Blackwater Ridge	Golden	
2082	Esplanade Bay	Site	00/04/20	DCO	82N12	14.7	-		295868		2001/03/22 The objective is to manage the Esplanade Bay Recreation Site for a lakeside roaded recreation experience.  The campsite will be maintained; the lakeshore vegetation will be conserved. Opportunities for camping, picnicking, and boat launching will be available.	Blackwater Ridge	Golden	
2299	Bush Valenciennes	Site	97/01/02	DCO	82N14	241	-		325050		98/01/30. The objective is to manage the Bush Valenciennes recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking, and boating will be available at the site.	Goodfellow	Golden	
2398	Swan Creek	Trail	97/01/02	DCO	82N13	-	5.4				98/01/30. The objective is to manage the Swan Creek recreation trail for a semi primitive non motorized recreation experience. The trail will be maintained and adjacent vegetation conserved.  Opportunities for hiking are available, no mechanized uses permitted.	Swan	Golden	

Mount   MacPhirson   Sile   93/02/18   DCO   82L16   355   25   25   25   25   25   25   2													
PringstonLake Irail   91/05/01   DCO   82L16   -   5.8   D.4	2462		Site	93/02/18	DCO	82L16	355	25			recreation site for a roaded resource recreation experience. The all season multi-use trail system, Ole Sandbert Hut and Beaver Lake picnic site will be maintained and the shoreline vegetation at Beaver Lake will be retained. Opportunities for hiking, horseback riding, mountain bike riding, cross country skiing, viewing and nature study will be available at the site. Motorized use of the trails will not be allowed. Rough road access to the site will be maintained for two wheel drive vehicles from late April to late October. Off highway parking will be provided for winter users. Forest interpretation and educational opportunities will be provided through brochures, self guided interpretation trails and kiosks. Biodiversity and Forest	Shelter Bay	and
Milestration   Mile	2474		Trail	91/08/01	DCO	82L09	0.8	0.4			recreation trail for a semi primitive non motorized recreation experience. The trail will be maintained and adjacent vegetation conserved.  Opportunities for hiking and equestrian uses are available, no	Shelter Bay	Cascadia
Begbie Falls Site Bluewater Creek Site Site Bluewater Creek Site Begbie Falls Site Bluewater Creek Site Blackwater Site Blackwater Creek Site Blackwater Ridge Site Blackwater Ridge Site Blackwater Ridge	2475		Trail	92/06/11	DCO	82L16	-	5.8			trail for a semi primitive non motorized recreation experience.  The trail will be maintained and adjacent vegetation conserved.  Opportunities for hiking are available, no mechanized uses	Shelter Bay	Cascadia
Creek  Map  Golden  Blackwater  Ridge  Golden  Golde	5015	Begbie Falls	Site	88/12/15	DCO	82L16	0.1	1	228290	060,	recreation site for a roaded resource recreation experience. The waterfall, creek and rock climbing bluffs will be protected. Over/understory vegetation, shoreline of the Upper Arrow Reservoir and creek bank below the falls will be retained and the trails, picnic site and viewing platform will be maintained. Opportunities will be available for viewing, picnicking, camping, rock climbing and hiking. Rough road access to the site will be maintained for two wheel drive vehicles from April to late		Revelstoke
Wisted Creek Map 96/12/16 DCO 82N11 33	5058		Site	96/12/16	DCO	82N11	21	-			recreation site for a roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping, picnicking and		Golden
Side Solider Site 96/12/16 DCU 82N11 4 recreation site for a roaded recreation experience. The campsite Will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will	5060	Wisted Creek	Мар	96/12/16	DCO	82N11	33	-			recreation site for a roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved.  Opportunities for camping, picnicking and boating will be	Esplanade	Golden
	5067		Site	96/12/16	DCO	82N11	4				recreation site for a roaded recreation experience. The campsite will be maintained; the creek shoreline and natural vegetation will be conserved. Opportunities for camping and picnicking will		Golden

5068	Mt. Seven 7 North Ridge	Мар	00/04/20	DCO	82N07 82N02	1084	-		2001/03/22 In the summer, during the snow free season, the Mt. 7, North Ridge Recreation Site will be managed for separated semi primitive non-motorized, semi primitive motorized, and roaded recreation experiences. In winter, when snow is on the ground the site will be managed for a separated semi primitive motorized and semi primitive non-motorized recreation experiences. The launch site area and day use facilities will be maintained, and the natural vegetation will be conserved. No overnight camping is permitted at the launch site. In the summer, opportunities for hang gliding, paragliding, mountain biking, scenic viewing, picnicking and hiking will be available. In the winter, opportunities for ski touring and snowmobiling will be available.	Mt Seven	Golden
5112	Giant Cedars	Site	96/12/16	DCO	82N11	47	1.7		98/01/30. The objective is to manage the Giant Cedars recreation site for a day use, roaded recreation experience. Day use facilities will be maintained and natural vegetation will be conserved.  Opportunities for picnicking will be available at the site. No overnight camping.	Blackwater Ridge	Golden
5118	Mt. Begbie	Мар	00/04/20	DCO	82L16	4994	-		2001/03/22 In the summer, during the snow free season, the objective is to manage the Mt. Begbie Recreation Site for a semi primitive non motorized recreation experience; in the winter, when snow is on the ground, the objective is to manage the site for separated semi-primitive motorized and semi-primitive non motorized recreation experiences. The campsite and trail will be maintained, and the natural vegetation will be conserved. In summer, opportunities for dispersed camping, hiking and mountaineering will be available; in winter, opportunities for ski touring, mountaineering and snowmobiling will be available.	Shelter Bay	Cascadia
5120	Frisby Ridge	Мар		DCO	82M01	2914	-		96/12/20. The objectives are to manage Frisby Ridge recreation site for a semi primitive motorized recreation experience in the winter months when snow is on the ground and a semi primitive non-motorized experience in the summer when the area is snow free. The wildlife, primarily mountain caribou, will be protected and the sub alpine/alpine flora and fauna will be retained. Opportunities for snowmobiling, mountain biking, hiking and viewing will be available. Access to the site is via Ministry of Forests trail.	Frisby Ridge	Revelstoke
5638	Coursier Lake	Site	92/06/11	DCO	82L09	3	-		98/01/30. The objective is to manage the Coursier Lake recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved.  Opportunities for camping, picnicking, and boating will be available at the site.	Shelter Bay	Cascadia

5943	Begbie Falls Trails	Trail		DCO	82L16	-	5.3		97/01/21. The objectives are to manage the Begbie Creek Trails for a roaded resource recreation experience. The multi- use trails and parking areas will be maintained. Opportunities for hiking, viewing, horse back riding and mountain bike riding will be available on these trails. Motorized use will not be allowed. Rough road access to the trails will be maintained for two wheel drive vehicles from April to late October.	Wetask	Revelstoke
6062	Sprague Bay	Site	96/12/16	DCO	83D01	29.1	-		98/01/30. The objective is to manage the Sprague Bay recreation site for a roaded recreation experience. The campsite will be maintained; the lake shoreline and natural vegetation will be conserved.  Opportunities for camping, picnicking, and boating will be available at the site.	Red Rock Harbour	Revelstoke
6054 or 6504	Begbie Lake	Site		DCO					96/12/20. The objectives are to manage the Begbie Lake recreation site for a roaded resource recreation experience. The recreation site will be maintained, the shoreline and adjacent vegetation will be retained and opportunities will be available for fishing, nature study and viewing.  Access to the site is via paved public road maintained by the Ministry of Transportation and Highways.	Shelter Bay	Cascadia

# Appendix I-1: Recreation - Rose Swanson Sensitive Area Supporting Document for Results and Strategies including Trail Management Zones/ Silviculture Systems and Map of Zone 1 and Zone 2.

The Rose Swanson Sensitive Area Results and Strategies included in the amended Forest Stewardship Plan (FSP) for BC Timber Sales Okanagan-Columbia Business Area refers to two trail management zones and several silviculture systems.

Zone 1 trail areas are recreation trails that were established in accordance with the Rose Swanson Order to Establish a Sensitive Area and Objectives, and are included in the Rose Swanson Sensitive Area Management Strategy. To date, planning for the Mount Rose Swanson area has honoured the spirit and intent of the order.

Zone 2 trail areas are recreation trails established on former harvesting access roads or skid trails and are included in the Rose Swanson Sensitive Area Management Strategy or Sensitive Area. There is a further network of trails at the end of Chamberlaine Road, in the most northern section of the Rose Swanson operating area, located outside of the original Sensitive Area, which will be treated with Zone 2 Results and Strategies.

Under the proposed Forest Stewardship Plan Amendment Results and Strategies for Rose Swanson, the Zone 1 Management Zone and recreation trails will restrict harvesting unless there are significant forest health factors present. This means the trails will not be altered and are protected by a 100-metre buffer unless a significant forest health factor, windthrow or fire salvage requires actioning due to the inherent risk of further loss of trees or are a potential safety risk to public. A significant forest health factor might be a mountain pine beetle infestation or Douglas- fir beetle infestation that has an imminent and significant risk to damaging the timber. In these circumstances, salvage operations may be used to harvest timber in a way that honours the spirit and intent of the Order. Zone 1 has been updated to reflect the currently known inventory of trails, which was updated post-1997, after the establishment of the Rose Swanson Sensitive Area Order and Management Strategy. This includes a loop section of trail outside the original Sensitive Area.

Under the Proposed Forest Stewardship Plan Amendment #7: Results and Strategies for Rose Swanson, harvesting will occur in the Zone 2 Management Zone and will utilize single tree selection, group selection, or retention harvesting. Recreation trails in Zone 2 will have a 15-metre management zone on either side of the trail (30 metres total) within which a minimum of 50 percent of the basal area or stems found in the pre-harvest stand will be reserved. The intent of this management zone is to provide for more retention adjacent to the recreation trails to aid in protecting the visual quality of the area when viewing from the trails. Where available and to the extent possible, understory and non-merchantable trees with good form, health and vigor will be retained within Zone 2 trail management zones.

Visual quality in the Rose Swanson Sensitive Area has an objective of meeting Partial Retention on the majority of the area, with a smaller portion having an objective of Retention. A very small portion has an objective of Modification, which BC Timber Sales intends to manage to a <u>Partial Retention Visual Quality Objective</u>.

Within the southern unit of the Rose Swanson FDU, which encompasses the Rose Swanson Sensitive Area, the harvesting methods and silviculture systems used outside of the Zone 1 and Zone 2 Management Zones will be limited to:

<u>Retention systems</u> maintain a level of stand structure, complexity and diversity to support ecological forest conditions and processes. Individual trees or groups of trees are retained to maintain structural diversity over the area and leave more than half the total area of the cut block within one tree-height from the base of a tree or group of trees.



Retention system block currently being harvested.



Retention system block 6 months to 1 year old.



Retention system block 1 to 2 years old.

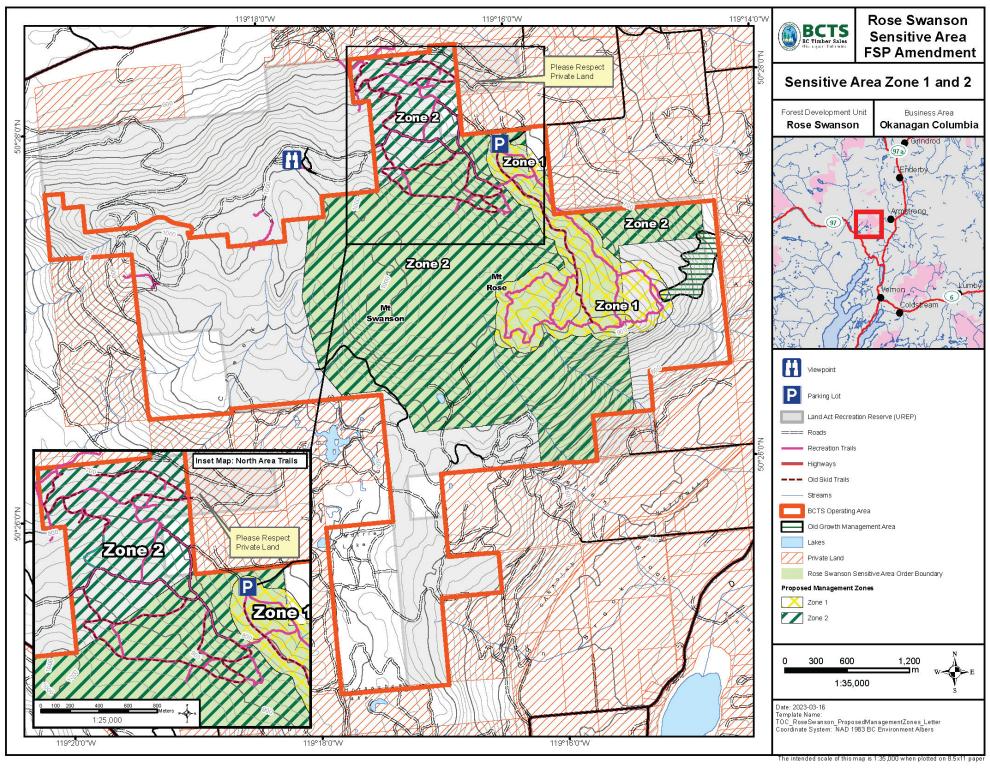


Retention system block 2 to 3 years old.

<u>Group selection</u> harvests small groups or gaps of trees of up to 0.5 hectares from an area over short intervals to develop at least three age classes throughout the stand. The management area becomes a multi-aged mosaic of age groups that eventually develops into an uneven-aged forest. The removal of small groups of trees minimizes the visual impact of harvesting.

<u>Single tree selection</u> harvests individual trees and small clumps of trees of all size classes more-or-less uniformly throughout the stand to achieve or maintain a balanced, regulated and uneven-aged stand structure. Regeneration should occur throughout the life of the stand with pulses of new regeneration development following harvesting entries.

In Zone 2, the lowest impact to the recreation trails will be evaluated when determining whether to use existing Zone 2 recreation trails for log transport or alternatively constructing a new road or skid trail. Input will be sought from recreation stakeholder groups regarding a preferred strategy. Timber access will include the potential to establish new recreation opportunities through design. In Zone 2, if the decision is to utilize recreation trails for harvesting purposes such as skidding or hauling logs, right of way widths will be minimized to the extent practicable.





Ministry of Forests Vernon Forest District 2501 - 14th Avenue Vernon BC V1T 821 Phone: (250) 558-1700 Facsimile: (250) 549-5485



#### Order to Establish a Sensitive Area and Objectives

File Number 12600 - 20 Rose Swanson

Pursuant to section 5 of the Forest Practices Code Of British Columbia Act, 712 hectares of the Crown land portion of Rose Swanson Mountain are established as a sensitive area effective April 30, 1997.

The following objectives are established for the Rose Swanson Sensitive Area:

- Maintain and enhance trail network for use by recreationists.
- Protect visual quality of area.
- Maintain recreation values by limiting timber harvesting to low impact silvicultural systems.
- Protect area against vandalism and timber theft.

These objectives take effect on April 30, 1997.

The boundaries of the Rose Swanson Sensitive Area are shown on the attached 1:25,000 scale map dated October 25, 1996.

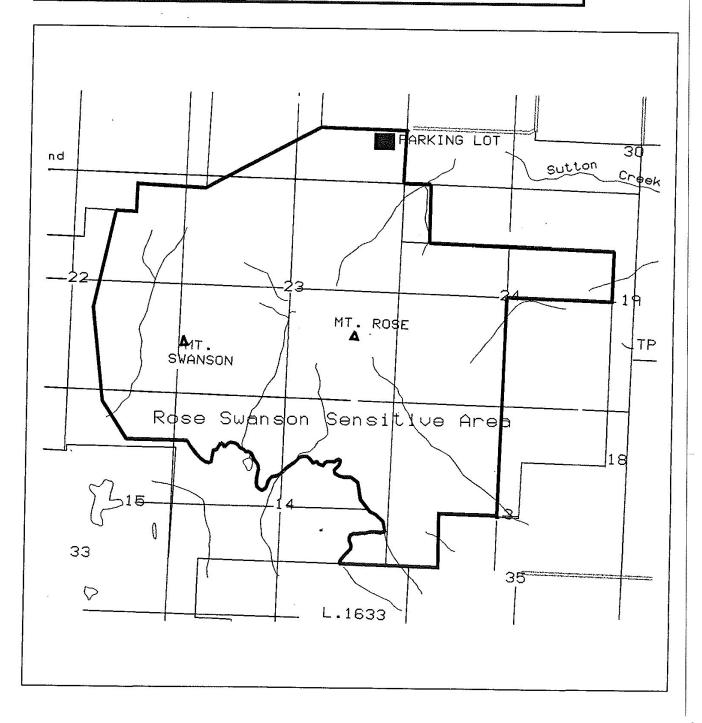
District Manager, Vernon Forest District

Date

Province of British Columbia
Ministry of Forests
Rose Swanson Sensitive Area Boundary

Boundary shown as
Drawn by TM
Date: October 25, 1996
BGCS Ref Map 082L044
SCALE 1:25,000





# Rose Swanson Sensitive Area

# Map Notation 920-5-1945

The following 1:25,000 scale Exhibit A map shows the map notation boundary for the Rose Swanson Sensitive Area.

The purpose of a map notation is to:

- 1. give the defined area legal status
- 2. include the area in the provincial Atlas map
- 3. provide a notice when someone does a status search on Crown land (i.e. it provides a warning or flag when someone wishes to proceed with any activity within the confines of the notation)

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# Rose Swanson Mountain Sensitive Area Management Strategy

#### Introduction

During the past several years there has been increasing community interest in the future of the Rose Swanson Mountain area, in particular to recognise, preserve and enhance the recreation resource, especially the hiking trails. Nineteen hundred hectares of this area are currently Crown land and provincial forest. (see figure 1)

To guide future development in a manner commensurate to the area's recreational resource a 712 hectare Sensitive Area is to be established (see figure 2).

# 1.1 Planning Context

The establishment of a Sensitive Area for recreational purposes within the Crown land portion of the Rose Swanson Mountain area is pursuant to section 5 of the Forest Practices Code of B.C Act (FPC). When established by the Ministry of Forests District Manager, the objectives for the Sensitive Area become a higher level plan thereby providing direction for land use and resource development.

A Land and Resource Management Plan (LRMP) for the Okanagan Timber Supply Area (TSA) was initiated in July, 1995, and is scheduled for completion in summer 1997. The goal is to complete a consensus based plan with management objectives and strategies for all Crown land resources within the TSA. The objectives for a Sensitive Area must be in accordance with: (1) the objectives created through a LRMP where it is declared to be a higher level plan by Cabinet or the ministers: (2) objectives for landscape units.

All lower level plans must consider and be in accordance with all higher level plans.

# 1.2 History of the Rose Swanson Mountain Planning Process

Most of the area was harvested approximately 80 years ago. About the same time, the forest on other parts of the mountain burned. Since then there has been little or no harvesting. Today's forest is being considered for harvest because of its economic viability or forest health reasons. Also, the area has been used by local residents for recreation purposes including hiking, horseback riding and mountain bike riding. These activities have increased as the population and its interest in outdoor recreation have risen.

Community members recently approached B.C. Lands to determine if the area could be upgraded to a regional park. However, its size - 1,900 hectares - and level of development do not meet the general criteria for such a designation.

In May, 1995, the North Okanagan Regional District (NORD) Parks and Recreation held a public information session during which it was agreed that NORD, the MoF and a group of volunteers should meet to determine the best long term strategy for the area and to examine the possibility of utilising the FPC Sensitive Area designation.

On July 26, 1995, a workshop with the MoF, NORD representatives and the community volunteers was held. Following a group tour of the Rose Swanson site an afternoon workshop was held in the Armstrong city hall to identify all pertinent issues and to work toward a strategy for accommodating them. The workshop resulted in the identification of the main issues and potential management objectives. It also recognised that a smaller portion of the Crown land area required the management strategy rather than the entire area. (see figure 2)

# 2 Purpose Of Sensitive Area Management Strategy

The purpose of the Rose Swanson Mountain Sensitive Area planning process is to create a plan which:

- is consistent with the Forest Practices Code of British Columbia Act
- describes the biophysical setting
- preserves and enhances the recreation resource
- describes management objectives to deal with current and future forest issues
- divides the area into appropriate zones for preferred silviculture systems
- · addresses issues of vandalism and wood theft

# 3 Planning Team

## 3.1 The Planning Team

The planning team, comprised of Ted McRae, Planning Officer, Vernon Forest District and Dave McIntosh, Recreation Officer, Vernon Forest District, was responsible for the gathering, processing and analysing of all pertinent information. Objectives for the Sensitive Area were drafted by the planning team with assistance from Melanie Platz, MoF Range, Recreation and Forest Practices Branch and the recommendations were presented to the District Manager, Vernon Forest District and the DEO for review and comment.

# 3.2 Plan Participants

The participants at the workshop held on July 26, 1995, included representatives from the Ministry of Forests, municipal and regional government, the forest industry and local naturalists plus other concerned individuals. The following is a list of the participants and their affiliations.

Ted McRae MoF Vernon Planning Officer Dave McIntosh MoF Vernon Recreation Officer Shayne Cook MoF Zone Technician Lorraine Maclauchlan MoF Regional Entomologist Carl Mashon MoF Co-op Student Chris Nelson N.O.R.D. Director Parks and Recreation Rich Medhurst Armstrong/Spallumcheen Council Peter Mayfield Naturalist Club Innes Cooper Hiker, Naturalist Patricia Brinnen Teacher School District #21 Ron Brinnen Teacher School District #21 Les Bowman Tolko Industries Jill de la Salle Trails Committee Jeanine de la Salle Student, Armstrong Bruce Essington Independent Horse Logger Derric Gerdes Local Land Owner

# 4 The Planning Area

# 4.1 Biophysical Setting

The Rose Swanson Mountain area is located immediately west of the city of Armstrong. It is a high point of land in the North Okanagan Highlands ecosection and is completely within the Interior Douglas Fir biogeoclimatic zone. It is bordered to the south-west by a small drainage system into Round Lake and on the east by drainages into Deep Creek and Otter Lake.

The area has a high visual exposure to two major road corridors, Hwy. 97 and Hwy. 97A and the city of Armstrong. The elevation profile ranges from approximately 750 meters at the parking lot to over a 1000 meters at the peaks.

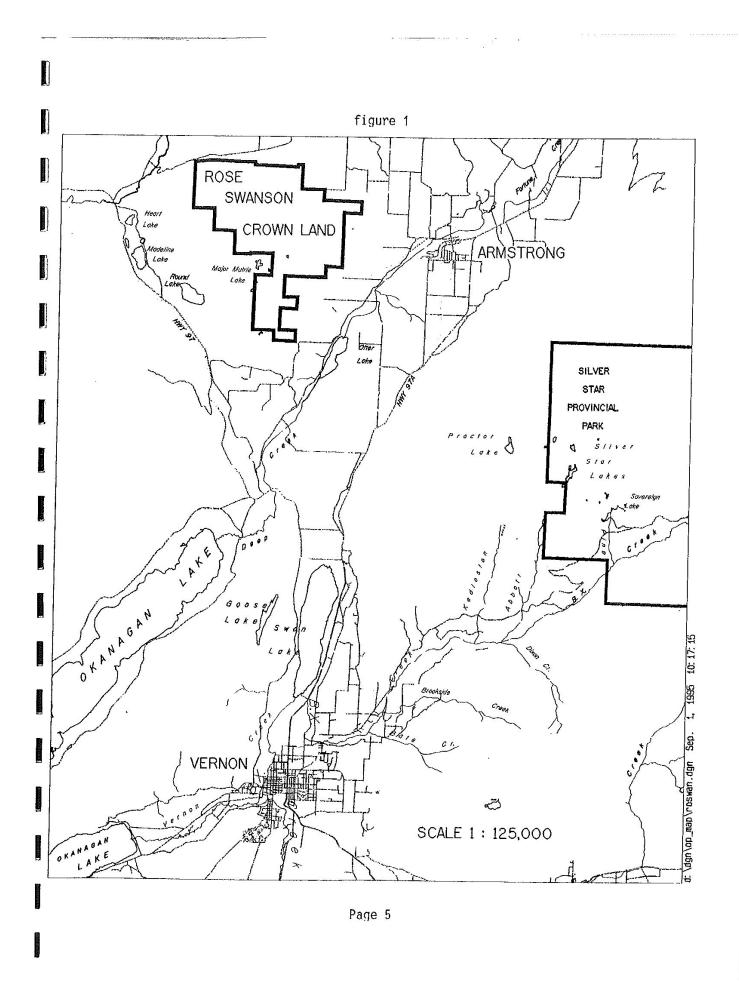
There is very little water present within the Sensitive Area with most streams being active during spring freshet only.

The site classification (a measurement of site productivity for forest growth) is in the MODERATE, POOR and LOW range with no GOOD sites within the area.

For a further description of the area see Table 1.

Table 1

Area (hectares)	% of area	Land Description (Crown Land only)
480	25%	Area of W H. d. P.
712	40%	
659		
1,900	35%	
1,900		All Crown Land surrounding and including Rose Swanson
The nu	ımbers bel	ow refer only to the Sensitive Area. (712 ha)
551	77%	harvestable land within Sensitive area
		SITE CLASS DISTRIBUTION
0	0%	total area with site class GOOD
349	49%	total area with site class MODERATE
215	30%	total area with site class POOR
120	16%	
		VQO DISTRIBUTION
76	11%	total area with RETENTION vgo
614	86%	total area with PARTIAL RETENTION vgo
11	2%	total area with MODIFICATION vgo
11	2%	total area with no vqo rating
		LEADING SPECIES DISTRIBUTION
338	47%	total area with fir as leading species
328	46%	total area with pine as leading species
		MANAGEMENT ZONES
244	34%	Zone 1 (trails buffer)
468		Zone 2



# 4.2 Current Resource Use

The area of interest is Crown land within the Provincial Forest under the jurisdiction of the Ministry of Forests. A 480 ha. woodlot adjacent to the north-west corner of the Sensitive Area is licensed to the Spallumcheen Indian Band. The remainder of the Crown Land is within the current operating area of Tolko Industries Ltd.

The area is within the boundary of the Municipality of the Township of Spallumcheen. The township has displayed an interest in the potential changes to the hydrology of the area, in particular the possible effect on wells at the foot of the mountain.

There are 2 range licenses whose boundaries extend into the peripheral regions of the Sensitive Area. The Major Mutrie Unit licence held by Messrs. Gill and Jones extends into the southern end of the area however it is still to the south of the main set of hiking trails. This licence allows 30 cattle to use the area from July 16 to August 15 on odd numbered years and August 16 to September 15 on even numbered years.

The Round Lake Unit licence held by Mr. Schweb touches the western edge of the Sensitive Area. This license allows for 100 cattle from May 15 to June 21, 50 cattle from June 22 to July 10 and 34 cattle from November 1 to December 1.

An active quartz mineral quarry adjacent to the south-western portion of the Sensitive Area is licensed to Mt. Rose Mining. This plan is not intended to limit further mineral exploration or development activities, however where an operational plan is required under the FPC, it must be consistent with the objectives for the Sensitive Area. All mining and mineral exploration activities will be subject to Mines Act and Mineral Tenure Act regulations. The Ministry of Employment and Investment, Energy and Minerals Division, will continue to refer mineral exploration proposals involving surface disturbance to the MoF, the Regional District as well as other regulatory agencies for review and comment.

The Spallumcheen Indian Band declined to attend the workshop. Band members discussed the matter and informed the MoF that they did not have concerns with this area being established as a Sensitive Area.

Outdoor recreation, specifically hiking, horseback riding and mountain biking are the key non commercial resource activities. The trail head parking lot is easily accessible to all cars and the gentle slope of the trails makes the area suitable for a wide range of users.

A recently completed non-scientific study indicated that the area may be accommodating in excess of 3,000 user days annually. The trails are included in the book HIKING TRAILS ENJOYED BY THE VERNON OUTDOOR CLUB. Club members established and maintain the trails and enjoy the area for its variety of wildflowers from May to July and scenic vistas year round. Local schools use the area for environmental studies.

# 5 Objectives and Strategies

The objectives for the Sensitive Area with boundaries shown on the attached exhibit A map, become legally binding on operational activities carried out under the FPC as of date.

Please note that the objectives are interdependent and complimentary. Although the strategies may be listed only under one objective they could be included under any number of the objectives.

It is not the intent of this management strategy to limit the inventiveness of resource users and managers. Instead, this plan encourages the use and development of innovative practices to allow for integrated resource use.

# 5.1 Objective 1: Maintain and enhance trail network for use by recreationists.

#### 5.1.1 Strategies

- Official designation of 712 ha. of the Rose Swanson Mountain area as a Sensitive Area for recreation purposes by the MoF, Vernon Forest District, District Manager.
- · Placement of interpretative signs.
- · Pursue opportunities for access to the southern portion of the area.
- · Construction of additional authorised trails.

# 5.2 Objective 2: Protect visual quality of area.

#### 5.2.1. Strategies

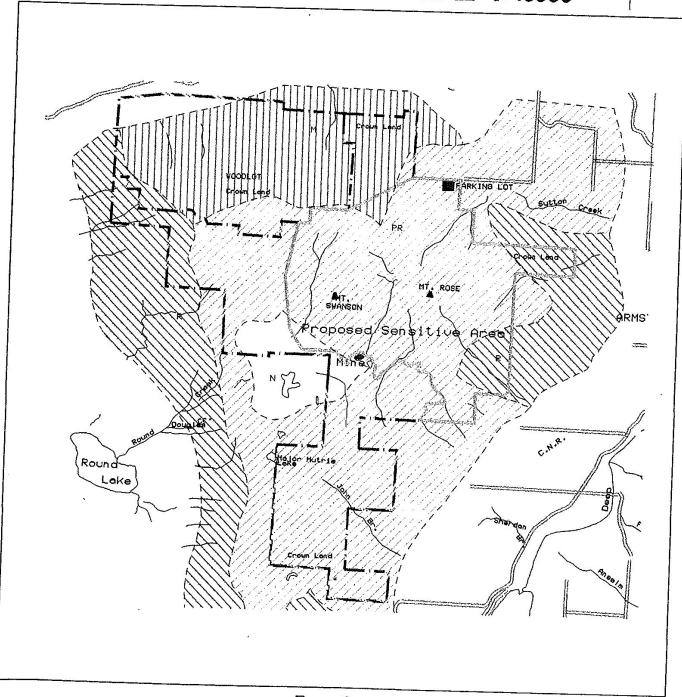
 All harvesting must adhere to the management guidelines associated with the area's Recommended Visual Quality Objectives. (see figure 2 and appendix 1)

# Figure 2 Recommended Visual Quality Objectives



⊠ R □ PR □ M

SCALE 1: 45000



Page 8

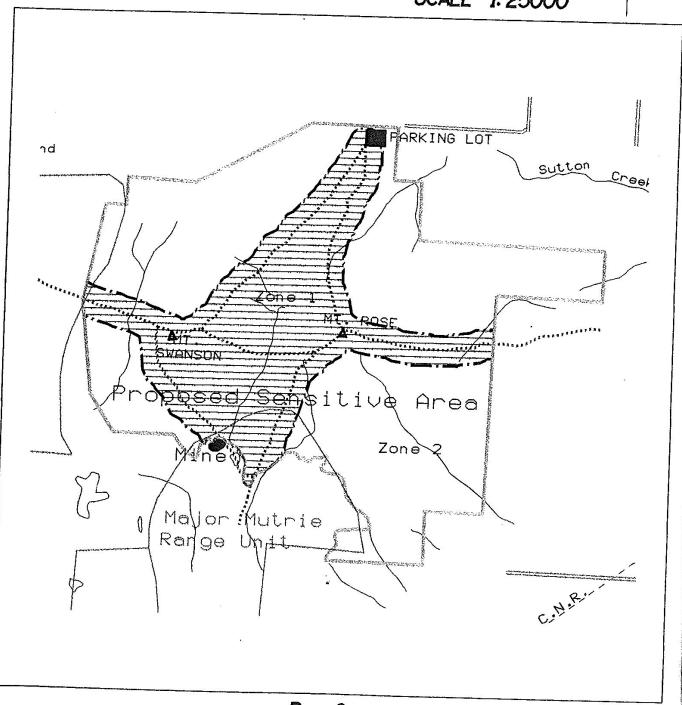
# figure 3

# Management Zones and Hiking Trails

**B**ZONE :



SCALE 1: 25000



Page 9

# Objective 3: Maintain recreation values by limiting timber harvesting to low impact silvicultural systems.

#### 5.3.1 Strategies

- Accurately map the existing trail network. (Note: The map in figure 3 shows the approximate location of the main trails. Actual trail locations may be mapped during summer 1997, allowing refinement of zone boundaries.)
- Create two management zones. (see figure 3)
  - 1. Zone 1 consists of an area surrounding the main trail network. (a 100 m buffer around the existing hiking trails.) Harvesting limited to sanitation and salvage logging.
  - 2. Zone 2 consists of the remainder of the Sensitive Area. Harvesting limited to low impact silviculture systems such as horse logging, helicopter logging, and selection systems.

# Objective 4: Protect area against vandalism and timber theft.

# 5.4.1 Strategies

- Limit recreational infrastructure. (prohibit construction of camping facilities)
- Consider options for improving the existing parking area and trail head.

#### 6 **Impact and Assessment**

The objectives and strategies of this management plan have been created to ensure that the needs of all resource values are addressed when planning for each resource. The high recreation value of the area has been recognised and development activities planned subsequent to the formal approval of this plan must adhere to the four objectives listed in

There will be no impact to the existing mining and range activities within the plan area as a result of this management plan. Timber harvesting will continue to occur according to the

Implementation in accordance with the Forest Practices Code of B.C. Act should have little impact on this area as there is very little riparian area and most of the streams are flowing only during spring freshet.

The effects on the groundwater, according to recent research, should be minimal, and, if anything, there should be a marginal increase in the amount of groundwater.

# 7 Implementation, Monitoring and Review

This plan will take effect 6 months after being filed with the regional manager.

Once the plan is implemented, forest development plans must be reviewed annually to ensure that the objectives stated in this plan have been followed. All harvesting activities must reflect the objectives of the zone which they occupy and must reflect the management guidelines of whichever Recommended Visual Quality Objective they occupy.

This plan must be reviewed once the Okanagan / Shuswap LRMP is completed and declared a higher level plan in order to ensure that the objectives are in accordance with the LRMP objectives..

# 7.1 Monitoring Group

As part of the implementation of the plan a monitoring group is to be established. This group will function as described in Appendix 2. The role of the group will be to review activities proposed within the plan area and to supply comments to the District Manager.

## 7.2 Review of Plan

A review of the <u>Rose Swanson Sensitive area Management Strategy</u> must occur during the year 2006. The purpose of this review is to make appropriate changes to the strategy if the issues identified in the creation of this plan are no longer current. If the existing plan is still appropriate, it may be renewed for another ten year period. If the monitoring group, the MoELP and the MoF fail to agree that the existing plan is appropriate then this plan will be cancelled and a new management strategy may be developed.

The plan must be reviewed for compliance with the LRMP objectives for the area once they are approved by Cabinet. This may result in alterations to the management strategy.

If there is no review of the plan before its tenth anniversary, the plan will be cancelled on the tenth anniversary of its original approval.

#### APPENDIX 1

### FOREST LANDSCAPE MANAGEMENT

Managing forest landscapes for visual quality is part of the Ministry of Forests' responsibility to the Integrated Resource Management (IRM) of Crown forest lands and this element of IRM has increased dramatically in importance in the past decade. A forest landscape management system was initiated by the Forest Service in the late 1970's and has evolved into a comprehensive process to complete a provincial inventory of visually sensitive areas. Lands throughout B.C. have been assigned to specific visual sensitivity classes. Visual Quality Objectives (VQO) are established for each class to give direction to landscape design and implementation of forest practices.

The VQOs are a baseline for modification of the landscape and any subsequent design plans and operational practices must meet these objectives as addressed in the Forest Practices Code of British Columbia Act. Presently there are six visual quality classifications ranging from no landscape alterations (preservation) to unacceptable alterations (excessive modification). The following is a description of the three VQO classes found within the Rose Swanson area.

#### RETENTION

Alterations are not easy to see. Up to 5 % of the landscape may be changed by logging, road-building or other forestry activities.

#### PARTIAL RETENTION

Alterations are visible but not conspicuous. Change may affect up to 15 % of the landscape. This 15 % includes any previously logged areas which do not yet appear green.

#### MODIFICATION

Alterations are easily seen but do not overwhelm. Change may affect up to 25 % of the landscape. This 25 % includes any previously logged areas which do not yet appear green.

#### APPENDIX 2

# **Monitoring Group:**

The purpose of the monitoring group is to supply comments to the District Manager regarding proposed activities within the boundaries of the Sensitive Area.

When activities are proposed within the plan area a meeting of the group will be called to discuss the proposal and draft a response for the District Manager.

The monitoring group will be comprised of the following people:

- two people from the trails committee
- one person from the Armstrong Spallumcheen Parks and Rec Commission
- one person from Tolko Industries
- the MoF planning officer
- the MoF recreation officer

Additional people may be requested to attend committee meetings if their presence is necessary.

The first meeting will be chaired by the MoF planning officer. At this meeting a chairperson for the next meeting will be selected. The chair will change for each meeting on a rotating basis.

A recorder will be selected at the first meeting and will be changed on a rotating basis. The recorder will be responsible for submitting copies of the meeting record to all committee members and the MoF District Manager.

# Appendix J: Stocking Standard Reference Tables for the Okanagan Shuswap Natural Resource District (including Okanagan TSA, TFL 33, TFL 49 and TFL 59)

Appendix J-1: Thompson Okanagan Regional Stocking Standards for Even-Aged Stands (Dec 9, 2021)											
BGC Classification Regeneration and Free Growing Stocking Standard											
Zone/SZ	Site Series	Stocking Standards ID	Preferred (p) Species	Acceptable (a) Species	Target (w	Density MIN pa ell-spaced/h	MIN p na)	Regen. Delay (max yrs)	Free Growing Date Latest (yrs)	MITD	Minimum Height at Free Growing Species-Height (m)
BGxh1	102	1068548	Py <sup>27</sup>	Fd <sup>27</sup>	400	200	200	7	20	1.0	All-0.60
BGxh1	103	1069884	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	AII-0.60
BGxh1	110	1068549	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.60
BGxh2	102	1069712	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	All-0.60
BGxh2	110	1069885	Fd <sup>27</sup>	Py <sup>27</sup>	400	200	200	7	20	2.0	All-0.60
BGxw1	102	1069886	Py <sup>27</sup>	Fd <sup>27</sup>	400	200	200	7	20	1.0	All-0.60
BGxw1	110	1069887	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.60
BGxw1	111	1069888	Fd		1000	500	400	7	20	2.0	All-0.60
CWHds1 <sup>47</sup>	01	1069901	Fd	Cw Pw <sup>31</sup>	900	500	400	3	20	2.0	Pw-2.5, Fd-2.25, Cw-1.5
CWHds1 <sup>47</sup>	02*	1069902	Pl Fd		400	200	200	3	20	1.0	Fd-1.5, Pl-1.25
CWHds1 <sup>47</sup>	03	1069903	Fd Pl <sup>6,60</sup>	Py <sup>7,18,23</sup> Cw	800	400	400	3	20	2.0	Fd-1.5, Pl-1.25, Py-1.0, Cw-1.0
CWHds1 <sup>47</sup>	04	1069904	Fd	Cw Pw <sup>31</sup>	800	400	400	3	20	2.0	Pw-2.5, Fd-2.25, Cw-1.5
CWHds1 <sup>47</sup>	05	1069905	Fd Se <sup>13,18</sup>	Cw Pw <sup>13,31</sup>	900	500	400	3	20	2.0	Pw-2.5, Fd-2.25, Cw-1.5, Se- 1.0
CWHds1 <sup>47</sup>	06	1069906	Hw Fd	Cw	900	500	400	6	20	2.0	Fd-2.25, Cw-1.5, Hw-1.0
CWHds1 <sup>47</sup>	07	1069907	Cw Fd	Bg Hw	900	500	400	3	20	2.0	Fd-3.0, Bg-2.0, Cw-2.0, Hw- 1.25
CWHds1 <sup>47</sup>	08	1069908	Cw	Ss <sup>35</sup> Bg	900	500	400	3	20	2.0	Ss-3.0, Others-2.0
CWHds1 <sup>47</sup>	09	1069909	Cw <sup>1</sup>	Bg <sup>1</sup>	900	500	400	3	20	2.0	All-2.0
CWHds1 <sup>47</sup>	10		no conifers		-	-	-	-	20	-	-
CWHds1 <sup>47</sup>	11*	1069910	PJ1	Cw <sup>1</sup>	400	200	200	3	20	1.0	Pl-1.25, Cw-1.0
CWHds1 <sup>47</sup>	12	1069911	Cw <sup>1</sup>	Pl <sup>7</sup>	800	400	400	3	20	1.0	Pl-1.25, Cw-1.0
CWHms1 <sup>47</sup>	01	1069912	Cw Fd Se <sup>13,18</sup> Hw <sup>10,13</sup> Ba <sup>10,13</sup>	Yc <sup>60</sup>	900	500	400	3	20	2.0	Fd-2.25, Cw-1.5, Hw-1.5, Yc- 1.5, Se-1.0, Ba-0.75
CWHms1 <sup>47</sup>	02*	1069913	Pl Fd		400	200	200	3	20	1.0	Fd-1.5, Pl-1.25
CWHms1 <sup>47</sup>	03	1069914	Cw Fd Se <sup>13,18</sup>	Ba <sup>10</sup>	800	400	400	3	20	2.0	Fd-2.25, Cw-1.5, Se-1.0, Ba- 0.75
CWHms1 <sup>47</sup>	04	1069915	Cw Fd Se <sup>13,18</sup> Ba <sup>10,13</sup>	Hw <sup>10,13</sup> Pw <sup>31</sup>	900	500	400	3	20	2.0	Fd-3.0, Pw-2.5, Cw-2.0, Hw-2.0, Se-1.25, Ba-1.0

CWHms1 <sup>47</sup>	05	1069916	Cw Hw Yc <sup>13,17</sup> Ba <sup>10,13</sup>		900	500	400	6	20	2.0	Ba-0.75, Others-1.5
CWHms1 <sup>47</sup>	06	1069917	Cw Fd Yc <sup>13,17</sup> Se <sup>13</sup>	Ba <sup>13</sup> Bg <sup>14,17</sup>	900	500	400	3	20	2.0	Fd-3.0, Bg-2.5, Cw-2.0, Yc-2.0, Se-1.25, Ba-1.0
CWHms1 <sup>47</sup>	07	1069918	Ba <sup>13</sup> Cw Ss <sup>35</sup>	Fd¹ Se¹8	900	500	400	3	20	2.0	Ss-4.0, Fd-3.0, Cw-2.0, Se, 1.25, Ba-1.0
CWHms1 <sup>47</sup>	08	1069919	Cw <sup>1</sup>	Ba <sup>1</sup>	900	500	400	3	20	2.0	Cw-2.0, Ba-1.0
CWHms1 <sup>47</sup>	09		no conifers		-	-	-	-	-	-	
CWHms1 <sup>47</sup>	10*	1069920	Pl <sup>1</sup>	Cw <sup>1</sup>	400	200	200	3	20	1.0	Pl-1.25, Cw-1.0
CWHms1 <sup>47</sup>	11	1069921	Cw <sup>1</sup> Yc <sup>13,17</sup>	Pw <sup>31</sup> Se <sup>1</sup>	800	400	400	3	20	1.0	Pw-2.5, Cw-1.0, Yc-1.0, Se- 0.75
ESSFdc1	101	1065442	BI <sup>201,208</sup> Sx	Pl	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc1	102	1065434	Sx Pl Pa <sup>13,201</sup>	BI <sup>208</sup>	1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdc1	103	1065439	Sx Pl Pa <sup>13,201</sup>	BI <sup>208</sup>	1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFdc1	104	1065441	PI Sx	BI <sup>208</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc1	110	1065443	BI <sup>208</sup> Sx		1200	700	600	4	20	2.0	All-0.8
ESSFdc1	111	1065444	BI <sup>32,208</sup> Sx <sup>32</sup>		1200	700	600	4	20	2.0	All-0.8
ESSFdc1	112	1065446	BI <sup>1,32,208</sup> Sx <sup>1,32</sup>		1000	500	400	4	20	2.0	All-0.6
				DI 200							
ESSFdc2	101	1065452	Sx BI <sup>201 208</sup>	PI <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc2	102	1065447	Pl Pa <sup>31</sup>	Fd <sup>14 32</sup> BI <sup>28 208</sup> Sx <sup>28</sup>	1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFdc2	103	1065448	PI Sx <sup>28</sup> Fd <sup>14 32</sup>	Bl <sup>208</sup>	1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdc2	104	1065449	Pl Sx Bl <sup>201 208</sup>		1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdc2	110	1065453	BI <sup>201 208</sup> Sx	Pl <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.6
ESSFdc2	111	1068155	BI <sup>201 208</sup> Sx	PI <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.6
ESSFdc2	112	1065454	BI <sup>1 208</sup> Sx <sup>1 32</sup>		1000	500	400	4	20	1.0	All-0.6
ESSFdc3 (use classification for ESSFdc2 in LMH23)	01	1065458	Se Bl <sup>201 208</sup> Pl <sup>201</sup>		1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc3 (use classification for ESSFdc2 in LMH23)	02	1065455	Pl	BI <sup>28 208</sup> Se <sup>28</sup>	1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFdc3 (use classification for ESSFdc2 in LMH23)	03	1065456	Pl Se Bl <sup>201208</sup>		1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdc3 (use classification for ESSFdc2 in LMH23)	04		does not occur in areas mapped as ESSFdc3	does not occur in areas mapped as ESSFdc3						-	
ESSFdc3 (use classification for ESSFdc2 in LMH23)	05	1065457	Se Bl <sup>201 208</sup> Pl <sup>201</sup>		1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdc3 (use classification for ESSFdc2 in LMH23)	06	1065460	Bl <sup>208</sup> Se	Pl <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc3 (use classification for ESSFdc2 in LMH23)	07	1065461	Bl <sup>208</sup> Se	PI <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFdc3 (use classification for ESSFdc2 in LMH23)	08	1065462	BI <sup>1 208</sup> Se <sup>1 32</sup>		1000	500	400	4	20	1.0	All-0.6
ESSFdc3 (use classification for ESSFdc2 in LMH23)	09		nonforest	nonforest						-	
ESSFdcw	101	1065465	BI <sup>208</sup> Sx		1200	700	600	4	20	2.0	All-0.8
ESSFdcw	102	1065463	BI <sup>208</sup> Sx Pa <sup>201</sup>	Pl <sup>34</sup>	1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFdcw	103	1065464	BI <sup>208</sup> Sx	Pa	1200	700	600	7	20	2.0	All-0.8
ESSFdcw ESSFdh1	110	1065466 1065470	Bl <sup>208</sup> Sx Pl <sup>34 201</sup> Bl <sup>201 208</sup>	Pw <sup>31</sup> Hw Cw <sup>32</sup> Fd <sup>32</sup> <sup>34</sup> Lw <sup>32</sup> <sup>203</sup>	1200	700	400 600	4	20	2.0	All-0.6 Pl-2.0, Lw-2.0, Others-1.0
ESSFdh1	102	1065467	Ba <sup>201</sup> 202 Sx	BI <sup>208</sup> Sx <sup>13</sup>	1000	500	400	4	20	1.0	Pl-1.4, Others-0.8
ESSFdh1	102	1065468	PI <sup>34</sup> Sy <sup>28</sup>	Pw <sup>31 34</sup> Bl <sup>28 208</sup> Fd <sup>9,32 34</sup>	1000	500	400	7	20	2.0	Pl-1.4, Others-0.8
255. (11)		.303400		Pw <sup>31</sup> Lw <sup>9 32 203</sup>	.550	555	.55				, Stricts 0.0
ESSFdh1	104	1065469	BI <sup>201</sup> 208 Sx	Cw <sup>10 28</sup> Hw <sup>10 28</sup> Lw <sup>14 32 203</sup>	1000	500	400	7	20	2.0	Pl-1.4, Others-0.8
ESSFdh1	110	1065671		Hw <sup>32</sup> Fd <sup>32</sup> Pl <sup>34</sup> Cw <sup>32</sup> Lw <sup>32 203</sup>	1200	700	600	4	20	2.0	Pl-2.0, Lw-2.0, Others-1.0
ESSEdh2 (use	111	1065672	Sx <sup>1</sup> Bl <sup>1 201 208</sup> Pl <sup>1 34 201</sup>	Hw <sup>1 32</sup> Cw <sup>1 32</sup> Ba <sup>1 32 202</sup>	1000	500	400	4	20	2.0	Pl-1.4, Others-0.8
ESSFdh2 (use classification for ESSFmw)	01	1065721	Sx BI <sup>201 208</sup> Ba <sup>13 201 202</sup>	Hw <sup>14 32</sup> Cw <sup>14 32</sup> Pw <sup>31</sup>	1200	700	600	4	20	2.0	All-1.0
ESSFdh2 (use classification for ESSFmw)	02	1065673	Pl <sup>34 201</sup> Fd <sup>9 14</sup>	BI <sup>28 208</sup> Sx <sup>13</sup> Pw <sup>31</sup>	1000	500	400	4	20	1.0	Pl-1.4, Others-0.8

SSSTEMPA   200   COST   COST
Casoffiction for   Oak
Constitution for   Constitutio
Classification for   Cost   1065722   B    207308   St   1067020   Part   1200   TOD   600   4   20   2.0   Ali-LD
Columbia   Columbia
Classification for   SSFAPM   SSSFAPM   Close   Classification for   CSSFAPM   Close   CSSFAPM   CSSFAPM   Close   CSSFAPM   Close   CSSFAPM   Close   CSSFAPM   Close   CSSFAPM   Close   CSSFAPM   CSSFA
Classification for   01   1065756   Sx B  201200   Pl Pa <sup>11</sup>   1200   700   600   4   20   2.0   Pl-1.6, Others-0.8
dassification for   02   1065725   Pi Pa <sup>31</sup>   B  <sup>28298</sup> Sx <sup>28</sup>   1000   500   400   4   20   1.0   Pi-1.2, Others-0.6
Classification for   CESSFedy   Use   Classification for   CESSFedy   Class   CESSFedy   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   CESSFedy   Class   CESSFedy   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   Class   CESSFedy   CESSFedy   Class   CESSFedy
Classification for   D4   1065727   Pa <sup>31</sup>   D5   D5   D65757   D5   D5   D5   D5   D5   D5   D5
Comparignment   Comparignmen
classification for   Corp.
Classification for ESSFdV    Class   Classification for ESSFdV    ESSFdV    Classification for ESSFdV    ESSFdV    Classification for ESSFdV    ESSFdV
Classification for ESSFdV2 (use classification for ESSFdV2 (
Classification for ESSFdv   Use classification for ESSFdv   Cuse classification for ESSFdv   Use classification for ESSFdv
Classification for ESSFdV2 (use classification for ESSFdV2)   ESSFdV2 (use classification for ESSFdV2)   ESSFdV2 (use classification for ESSFdV2)   ESSFdV2 (use classification for ESSFdV2 (use classification for ESSFdV2)   ESSFdV2 (use classification for ESSFdV3   ESSFdV4
Classification for ESSFdV2 (Use classification for ESSFdV2)   ESSFdV2 (Use classification for ESSFdV3)   ESSFdV2 (Use classification for ESSFdV3)   ESSFdV2 (Use classification for ESSFdV3)   ESSFdV4 (Use classification for ESSFdV4)   ESSFdV4 (Use classification for ESSFdV4 (Use classif
classification for ESSFdV)         06         1065764         Sx1 Bl 1201208         Pl 1         1000         500         400         4         20         1.0         Pl-1.2, Others-0.6           ESSFmh         101         1065781         CW 14, 34,203 Bl <sup>208</sup> Lw <sup>9,14,34</sup> Fd <sup>9,14</sup> Pw <sup>9,14,31</sup> Fd <sup>9,14</sup> Pw <sup>9,14,31</sup> 1200         700         600         4         20         2.0         Lw-2.0, Pw-2.0, Pl-2.0, Fd Others-1.0           ESSFmh         102         1065769         Fd <sup>9</sup> Lw <sup>9</sup> Pl         Sx Bl <sup>208</sup> Pa <sup>13</sup> 1000         500         400         7         20         2.0         Lw-1.6, Fl-1.6, Fd-1.2, Oth 0.8           ESSFmh         103         1065772         Fd Lw Pl <sup>34</sup> Sx         Cw Bl Pw <sup>14,31</sup> 1200         700         600         7         20         2.0         Lw-2.0, Pw-2.0, Pl-2.0, Fd Others-1.0
ESSFmh 101 1065781 Bl <sup>208</sup> Lw <sup>9,14,34</sup> Fd <sup>9,14</sup> Pw <sup>9,14,31</sup> 1200 700 600 4 20 2.0 Others-1.0  ESSFmh 102 1065769 Fd <sup>9</sup> Lw <sup>9</sup> Pl Sx Bl <sup>208</sup> Pa <sup>13</sup> 1000 500 400 7 20 2.0 Lw-1.6, Pl-1.6, Fd-1.2, Oth 0.8  ESSFmh 103 1065772 Fd Lw Pl <sup>34</sup> Sx Cw Bl Pw <sup>14,31</sup> 1200 700 600 7 20 2.0 Lw-2.0, Pw-2.0, Pl-2.0, Fd Others-1.0
ESSFmh 102 1065/69 Fd <sup>9</sup> Lw <sup>9</sup> Pl Sx Bl <sup>208</sup> Pa <sup>13</sup> 1000 500 400 7 20 2.0 0.8  ESSFmh 103 1065772 Fd Lw Pl <sup>34</sup> Sx Cw Bl Pw <sup>14,31</sup> 1200 700 600 7 20 2.0 Lw-2.0, Pw-2.0, Pl-2.0, Fd Chers-1.0
ESSF-mh 103 1065772 Fd Lw Pl <sup>34</sup> Sx Cw Bl Pw <sup>14,31</sup> 1200 700 600 7 20 2.0 Others-1.0
ESSFmh 104 1065777 Sx Pl <sup>34</sup> Bl <sup>208</sup> 1200 700 600 4 20 2.0 Pl-2.0, Others-1.0
ESSFmh 105 1065779 Fd <sup>9</sup> Lw <sup>9</sup> Pl <sup>34</sup> Sx Cw <sup>9</sup> Bl <sup>208</sup> Pw <sup>31</sup> 1200 700 600 4 20 2.0 Lw-2.0, Pw-2.0, Pl-2.0, Fo Others-1.0
ESSFmh 110 1065784 BI <sup>208</sup> Sx Hw <sup>14,32</sup> Cw <sup>14,32</sup> 1200 700 600 4 20 2.0 All-1.0
ESSFmh 111 1065785 BI <sup>208</sup> Sx CW <sup>14,32</sup> HW <sup>14,32</sup> 1200 700 600 4 20 2.0 All-1.0
ESSFmh 112 1065786 BI <sup>1,32,208</sup> Sx <sup>1,32</sup> 1000 500 400 4 20 2.0 Ali-0.8
ESSFmm1 01 1065825 BI Sx PI 1200 700 600 4 20 2.0 Pl-1.6, Others-0.8
ESSFmm1 02 1065787 Bj28 Pj Sx <sup>28</sup> 1000 500 400 7 20 1.0 Pl-1.2, Others-0.6
ESSFmm1 03 1065823 PI Sx <sup>28</sup> BI <sup>28</sup> 1000 500 400 4 20 2.0 PI-1.2, Others-0.6
ESSFmm1 04 1065824 BI Sx PI 1200 700 600 4 20 2.0 Pl-1.6, Others-0.8
ESSFmm1 05 1065826 BI Sx PI 1200 700 600 4 20 2.0 Pl-1.6, Others-0.8
ESSFmm1 06 1065827 BI Sx PI 1200 700 600 4 20 1.0 Pl-1.6, Others-0.8
ESSFmm1 07* 1065828 BJ <sup>1,32</sup> Sx <sup>1,32</sup> PJ <sup>1</sup> 400 200 200 4 20 1.0 PJ-1.2, Others-0.6
ESSFmw1 101 1065834
ESSFmw1 102 1065829 PI BI <sup>13 201 208</sup> Sx <sup>13</sup> Pa <sup>13 3 1 201</sup> Fd <sup>14</sup> 1000 500 400 4 20 1.0 PI-1.4, Others-0.8
ESSFmw1 103 1065831

ESSFmw1 110 1065836 BJ 201208 5x PJ 134 Pwl 31 1000 700 600 4 20 2.0 PJ-2.0 ESSFmw2 (use dassification for 0.2 Lb 1331 201 8S Pa 201202 Lb 14.32 203 1000 500 400 4 20 1.0 PJ-1.4 ESSFmw2 (use dassification for 0.3 1065839 Pl 134 201 BJ 201208 Pa 313 1201 ESSFmw2 (use dassification for 0.3 1065839 Pl 134 201 BJ 201208 Pa 313 1201 ESSFmw2 (use dassification for 0.3 1065839 Pl 134 201 BJ 201208 Pa 313 1201 ESSFmw2 (use dassification for 0.3 1065839 Pl 134 201 BJ 201208 Pa 313 1201 ESSFmw2 (use dassification for 0.3 1065840 Pl 134 201 BJ 201208 Pa 313 1201 Pl 201208 Pl 201208 Pa 313 1201 Pl 201208 Pa 313 1201 Pl 201208 Pl	, Others-1.0 , Others-0.8 , Others-0.8 , Others-0.8 , Others-0.8 , Others-0.8 , Others-0.0
ESSFmw1 110 1065836 BI 201208 SX PI 34 1200 700 600 4 20 2.0 PI-2.0 ESSFmw2 (use classification for ESSFmw2 (use classification for ESSFmw2) Use classification for ESSFmw3 (use classification for OS 1065842 Sx B] <sup>201208</sup> Ba <sup>221020</sup> Ba <sup>22202</sup> 1200 700 600 7 20 2.0 PI-1.4, Lw ESSFmw3 (use classification for OS 1065843 Sx B] <sup>201208</sup> Ba <sup>2210202</sup> Pi <sup>24</sup> Hm Pw <sup>31</sup> Hw <sup>1432</sup> Cw <sup>1432</sup> 1200 700 600 4 20 2.0 PI-2.0 ESSFmw3 (use classification for OS 1065843 Sx B] <sup>201208</sup> Ba <sup>2210202</sup> Hm Hw <sup>32</sup> ESSFmw2 (use classification for OS 1065844 Ba <sup>201208</sup> Sx B] <sup>201208</sup> Ba <sup>2210202</sup> Pw <sup>31</sup> 1000 500 400 4 20 2.0 PI-1.4 ESSFmw2 (use classification for OS 1065845 B] <sup>1201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 1200 700 600 4 20 2.0 PI-1.4 ESSFmw2 (use classification for OS 1065845 B] <sup>1201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 1200 700 600 4 20 2.0 PI-1.4 ESSFmw2 (use classification for OS 1065847 B] <sup>201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 1200 700 600 4 20 2.0 2.0 ESSFmw3 (use classification for OS 1065847 B] <sup>201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 1200 700 600 4 20 2.0 2.0 ESSFmw2 (use classification for OS 1065847 B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 1200 700 600 4 20 2.0 2.0 ESSFmw2 (use classification for OS 1065847 B] <sup>201208</sup> Sx B] <sup>201208</sup> Sx B] <sup>201208</sup> Cw <sup>32</sup> 200 700 600 4 20 2.0 2.0 ESSFmw2 (use classification for	, Others-0.8 , Others-1.0 , Others-0.8 ,-1.4, Others-0.8
ESSFmw2 (use dassification for ESSFmw)  ESSFmw2 (use dassification for 02 1065838 Pal³331201 Sx Pl³8 Pa²2202 Lw¹432 Pa³203 1000 500 400 4 20 1.0 Pl-1.4 Pl-1.4 Lw PsSFmw2 (use dassification for 03 1065839 Fa¹331201 Sx Pa³331201 Ba²2202 Lw¹432203 1000 500 400 7 20 2.0 Pl-1.4, Lw PsSFmw2 (use dassification for 04 1065840 Pl³4 201 Bl²01208 Sx Pa³331201 Ba²2202 Lw²432203 1000 500 400 7 20 2.0 Pl-1.4, Lw PsSFmw2 (use dassification for 05 1065842 Sx Bl²01208 Ba²01202 Pl³4 Hm Pw 31 Ba²	, Others-1.0 , Others-0.8 ,-1.4, Others-0.8 , Others-1.0
Classification for ESSFmw2 (use classification for ESSFmw2)   Classification for ESSFmw2 (use classification for ESSFmw2 (use classification for ESSFmw2)   Classification for ESSFmw2 (	, Others-0.8 <i>I-</i> 1.4, Others-0.8 , Others-1.0
Classification for ESSFmw2 (use dassification for ESSFmw2 (use classification for ESSFmw2)   Classification for ESSFmw2 (u	7-1.4, Others-0.8
Classification for ESSFmw)   Class   Classification for ESSFmw)   Classi	, Others-1.0
Classification for ESSFmw)   Class   Classification for ESSFmw)   Classi	
Classification for ESSFmw2 (use classification for ESSFmw2 (use classification for ESSFmw2)   SX BI   201 208   Hm Hm Hm   Hm Hm   Hm   Hm   Hm   Hm	, Others-1.0
Classification for ESSFmw2 (use classification for ESSFmw2)   ESSF	
Classification for ESSFmw)   Classification	All-1.0
classification for ESSFmw)     08     1065845     BI 1201 208 Sx 1     PI 3 Ba 3 De No 3	All-0.8
Sx Pl <sup>34</sup>	, Others-0.8
Sx Pl <sup>34</sup>	All-0.8
ESSFwc2 02 1065846 1000 500 400 4 20 1.0 Pl-1.2	, Others-0.6
ESSFwc2 03 1068544 Bl <sup>208</sup> Sx Pl <sup>34</sup> 1200 700 600 4 20 2.0 Pl-2.0	, Others-1.0
ESSFwc2 04 1068545 Bl <sup>208</sup> Sx Pl <sup>34</sup> 1200 700 600 4 20 2.0 Pl-2.0	, Others-1.0
ESSFwc2 05 1068546 Bl <sup>208</sup> Sx Pl <sup>34</sup> 1200 700 600 4 20 2.0 Pl-2.0	, Others-1.0
ESSFwc2 06 1065848 Sx <sup>32</sup> Bl <sup>208</sup> 1200 700 600 4 20 2.0	All-0.8
ESSFwc2 07 1065849 BI <sup>208</sup> Sx 1200 700 600 4 20 2.0	All-0.8
ESSFwc2 08 1065850 BJ <sup>1208</sup> Sx <sup>132</sup> 1000 500 400 4 20 2.0	All-0.8
ESSFwc2 09 1065851 PI <sup>1</sup> Sx <sup>1 32</sup> 8I <sup>201 208</sup> 400 200 200 4 20 1.0 PI-1.2	, Others-0.6
ESSFwc2 10 nonforest nonforest -	
ESSFwc3 01 1065853 BI Sx PI 1200 700 600 4 20 2.0 PI-1.6	5,Others-0.8
ESSFwc3 02 1065852 BI Sx PI 1000 500 400 7 20 2.0 PI-1.2	2,Others-0.6
ESSFwc3 03* 1065854 BI Sx 600 400 7 20 1.6	All-0.6
ESSFwc4 101 1065857 Bl <sup>201,208</sup> Se 1200 700 600 4 20 2.0	All-0.8
ESSFwc4 102 1065855 Sx Pa <sup>201</sup> Pl <sup>16,34</sup> Bl <sup>208</sup> 1000 500 400 7 20 1.0 Pl-1.2	, Others-0.6
ESSFwc4 103 1065856 BI <sup>208</sup> Sx PI <sup>16,34,200</sup> Pa 1200 700 600 7 20 2.0 PI-1.6	, Others-0.8
ESSFwc4 110 1065858 Bl <sup>208</sup> Sx 1200 700 600 4 20 2.0	All-0.8
ESSFwc4 111 1065859 BI <sup>1,32,208</sup> Sx <sup>1,32</sup> 1200 700 600 4 20 2.0	All-0.8
ESSFwc4 112 1065860 BI <sup>1,32,208</sup> Sx <sup>1,32</sup> 1000 500 400 4 20 1.0	All-0.6
ESSFwow 101 1065864 BI <sup>208</sup> Sx 1200 700 600 4 20 2.0	All-0.8
ESSFwow 102 1065861 Bl <sup>208</sup> Sx Pa <sup>201</sup> Pl <sup>34</sup> 1000 500 400 7 20 1.0 Pl-1.2	, Others-0.6
ESSFwow 103 1065862 BI <sup>208</sup> Sx Pa <sup>201</sup> 1200 700 600 7 20 2.0	All-0.8
ESSFwcw 104 1065863 BJ <sup>208</sup> Sx La <sup>16</sup> 1200 700 600 4 20 2.0	All-0.8
FEET   140   1005   -120   100   1	All-0.6
	.0, Fd-1.4, Others-
	1.0

ESSFwh1	103	1065867	Sx Fd <sup>14,34</sup> Lw <sup>14,34</sup>	Pl <sup>16,34,200</sup> Bl <sup>208</sup> Pw <sup>14,31</sup> Pa <sup>13</sup>	1200	700	600	7	20	2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0
ESSFwh1	104	1065868	Sv. Gv.14.201	PI <sup>34</sup> BI <sup>202</sup> Hw <sup>9,14</sup>	1200	700	600	7	20	2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4, Others-1.0
ECCEh4	440	4065070	Lw <sup>9,14,201</sup> Bl <sup>208</sup> Sx	Pw <sup>9,14,31</sup> Cw <sup>14,32</sup>	4200	700	600		20	2.0	
ESSFwh1	110	1065870		Hw <sup>14,32</sup>	1200	700	600	4	20	2.0	All-1.0
ESSFwh1	111	1065871	BI <sup>1,32,208</sup> Sx <sup>1,32</sup>	Hw <sup>1,32</sup>	1000	500	400	4	20	1.0	All-0.8
ESSFwk1	01	1065875	BI Sx PI		1200	700	600	4	20	2.0	Pl-2,Others-1
ESSFwk1	02*	1065872	BI PI Sx	Lw	1000	500	400	7	20	1.0	Lw-2,PI-1.4,Others-0.8
ESSFwk1	03	1065873	Pl Sx Bl	Lw	1200	700	600	4	20	2.0	Pl, Lw-2,Others-1
ESSFwk1	04	1065874	BISx	Pl	1200	700	600	4	20	2.0	Pl-2,Others-1
ESSFwk1	05	1065876	BI Sx	Pl	1200	700	600	4	20	2.0	Pl-2,Others-1
ESSFwk1	06	1065877	BI Sx		1000	500	400	4	20	1.6	All-0.8
ESSFwk1	07	1065878	BI Sx		1000	500	400	4	20	1.6	All-0.8
ESSFxc1	101	1065883	Pl Se Bl <sup>201 208</sup>		1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	102	1065879	Pl Pa <sup>13</sup>	BI <sup>13 28 208</sup> Se <sup>10</sup> <sup>13 28</sup> Fd <sup>9 14 32</sup> Lw <sub>9 14 32 203</sub>	600	400	400	7	20	1.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc1	103	1065880	Pl	BI <sup>13 208</sup> Se <sup>13</sup> Fd <sup>9</sup> <sup>14</sup> Pa <sup>13 17</sup> Lw <sup>9 14</sup> <sup>203</sup>	1000	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc1	104	1065881	Pl	BI <sup>13 208</sup> Se Fd <sup>9 14 32</sup> Lw <sup>9 14 203</sup>	1000	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc1	105	1065882	Pl Se	BI <sup>10 208</sup>	1200	700	600	7	20	2.0	Pl-1.2, Others-0.6
ESSFxc1	110	1065884	PI Se BI <sup>13 201 208</sup>		1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	111	1065885	PI Se <sup>32</sup> BI <sup>32 201 208</sup>		1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc1	112	1065886	Pl <sup>1</sup> Se <sup>1 32</sup> Bl <sup>1 32 201 208</sup>		1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc1	113	1065887	Pl <sup>1</sup> Se <sup>1,32</sup>	BI <sup>1 32 208</sup>	1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc2	101	1065890	Pl Se Bl <sup>201 208</sup>		1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc2	102	1065888	Pl	BI <sup>13 208</sup> Se <sup>10 13</sup> <sup>28</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	600	400	400	7	20	1.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc2	103	1065889	Pl Se <sup>10 13 28</sup> Bl <sup>201 208</sup>		1000	500	400	7	20	2.0	Pl-1.2, Others-0.6
ESSFxc2	110	1065891	Se BI <sup>13 201 208</sup>	PI <sup>200</sup>	1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc2	111	1065892	Se <sup>32</sup> BI <sup>201 208</sup>	PI <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFxc2	112	1065893	Pl <sup>1</sup> Se <sup>1 32</sup> Bl <sup>1 201 208</sup>		1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc3 (use classification for ESSFxc)	01	1065896	PI Se <sup>32</sup> BI <sup>201</sup>		1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc3 (use classification for ESSFxc)	02	1065894	Pl Pa <sup>13 201</sup>	BI <sup>13,28,208</sup> Se <sup>10,13,28</sup> Fd <sup>9,14,3</sup> <sup>2</sup> Lw <sup>9,14,32</sup>	600	400	400	7	20	1.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc3 (use classification for ESSFxc)	03		nonforest	nonforest						2.0	
ESSFxc3 (use classification for	04		nonforest	nonforest						-	
ESSFxc3 (use classification for	05	1065895	Pl Pa <sup>13 201</sup>	BI <sup>13 208</sup> Se <sup>13</sup> Fd <sup>9 14</sup> Lw <sup>9 14 203</sup>	1000	500	400	7	20	2.0	Pl-1.2, Lw-1.2, Others-0.6
ESSFxc3 (use classification for	06	1065897	Pl Se Bl <sup>201</sup> 208	Pa <sup>13</sup>	1200	700	600	7	20	2.0	Pl-1.6, Others-0.8
ESSFxc3 (use classification for	07	1065898	Se <sup>32</sup> BI <sup>201</sup> 208	Pl <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.6, Others-0.8
ESSFxc3 (use classification for	08	1065899	Se <sup>132</sup> BI <sup>1201208</sup>	Pl <sup>200</sup>	1000	500	400	4	20	1.0	Pl-1.2, Others-0.6
ESSFxc3 (use classification for ESSFxc)	09		nonforest	nonforest						-	
<b>ESSFxc3</b> (use classification for	10		nonforest	nonforest						-	
ESSFxc) ESSFxv1	01	1065905	Pl Sx Bl <sup>201</sup>	Pa	1200	700	600	7	20	2.0	Pl-1,Others-0.8
ESSFxv1	02*	1065900	Pl Pa	ВІ	800	500	400	7	20	1.6	Pl-0.8,Others-0.6

ESSFEV1	1-0.8,Pa-0.6 0.8,Others-0.6 1,Others-0.8 1,Others-0.8 1,Others-0.8 0.8,Others-0.6 0.8,Others-0.6
ESSFEV1	1,Others-0.8 1,Others-0.8 1,Others-0.8 0.8,Others-0.6
SSSFW1	-1,Others-0.8 -1,Others-0.8 0.8,Others-0.6
ESSFav1	1,Others-0.8 0.8,Others-0.6
ESSFav1	1,Others-0.8 0.8,Others-0.6
ESSFAV2	0.8,Others-0.6
ESSFAV2	· · ·
ESSFAV2	
ESSFAV2	
ESSFAV2	-1,Others-0.8
ESSFAV2	0.8,Others-0.6 Pl-0.8,Pa-0.6
ESSF-w2	-1.Others-0.8
ESSF-W2	-1,Others-0.8
ESSFAV2	-1,Others-0.8
ESSFAV2	-1,Others-0.8
ESSFxv2	).8,Others-0.6
ICHdk	).8,Others-0.6
ICHdk	).8,Others-0.6
ICHdk	w-2,Fd-1.4,Others-1
ICHdk   04   1065921   Fd Pl Sx   CW BI PW LW   1200   700   600   4   20   2.0   Pl, PW, ICHdk   05   1065923   Fd Pl Sx   Bl CW PW   1200   700   600   4   20   2.0   Pl, PW, ICHdk   06   1065924   Fd Pl Sx   Bl CW PW   1200   700   600   4   20   2.0   Pl, PW   ICHdk   07   1065925   Fd Pl Sx   Bl EW PW   1200   700   600   4   20   2.0   Pl, PW   ICHdk   08   1065926   Fd Sx Bl   CW Pl PW   1000   500   400   4   20   1.6   Pl, PW   ICHdk   09   1065927   Sx   Bl Pl   1000   500   400   4   20   1.6   Pl, PW   ICHdk   09   1065927   Sx   Bl Pl   1000   500   400   4   20   1.6   Pl, PW   ICHdk   09   1065932   Fd Sx, VS IV   PW   1000   500   400   4   20   1.6   Pl, PW   ICHdw3 (use classification for O5   1065931   Fd Pl 201   Py 31   Py 31   Py 31   PW 31	Fd-1,Others -0.8
ICHdk   05   1065923   Fd Pl Sx   Bl CW PW   1200   700   600   4   20   2.0   Pl, PW   ICHdk   06   1065925   Fd Pl Sx   Bl CW PW   1200   700   600   4   20   2.0   Pl, PW   ICHdk   07   1065925   Fd Pl Sx   Bl PW   1200   700   600   4   20   2.0   Pl, PW   ICHdk   08   1065926   Fd Sx Bl   CW Pl PW   1000   500   400   4   20   1.6   Pl, PW   ICHdk   09   1065927   Sx   Bl Pl   1000   500   400   4   20   1.6   Pl, PW   ICHdw3 (use dassification for ICHmw3)   ICHdw3 (use dass	Fd-1.4,Others-1
ICHdk	w-2,Fd-1.4,Others-1
ICHdk	-2,Fd-1.4,Others-1
ICHdk   08   1065926	-2,Fd-1.4,Others-1 -2,Fd-1.4,Others-1
ICHdw   09   1065927   Sx   B  P    1000   500   400   4   20   1.6   P	.4,Fd-1,Others-0.8
CHdw3 (use classification for   CHmw3)   CW Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CW Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CW Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CW Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31   CHdw3 (use classification for   CHmw3)   CM Hw201 SX PW 31	1.4,Others-0.8
CICHdw3 (use dassification for ICHmw3)	-2.0, Lw-2.0, Fd-1.4, Others-1.0
ICHMW3   I	-1.4, Lw-1.4, Fd-1.0, Others-0.8
ICHmw3	-1.4, Lw-1.4, Fd-1.0,
ICHmw3)       Lw203 Sxw28         ICHdw3 (use classification for ICHmw3)       05       1065931       Fd58 Cw       Pw31Lw203 Sxw28 Pl       1200       700       600       7       20       2.0       Pl-2.0, Pw         ICHdw3 (use classification for ICHmw3)	Others-0.8 -2.0, Lw-2.0, Fd-1.4,
ICHmw3)         O6 (CW present)         O6 (CW present)         O6 (SX present)         CW Hw <sup>201</sup> SX PW <sup>31</sup> Fd Lw <sup>203</sup> PW <sup>31</sup> 1200         700         600         4         20         2.0         Pw-2.0, L           ICHdw3 (use classification for ICHmw3)           ICHdw3 (use classification for ICHmw3)         1065934         Sx BI <sup>201208</sup> Pw <sup>31</sup> Cw <sup>132</sup> Lw <sup>132203</sup> Hw <sup>1</sup> arg <sup>2203</sup> Hw <sup>1</sup> arg <sup>2203</sup> Fd <sup>132</sup> Lw <sup>32203</sup> Hw <sup>32</sup> Fd <sup>322</sup> Pw <sup>31</sup> Lw <sup>32203</sup> Hw <sup>32</sup> Fd <sup>322</sup> Pw <sup>31</sup> Lw <sup>32203</sup> Bl <sup>208</sup> 1200         700         600         4         20         2.0         Pw-2.0, L	Others-1.0 -2.0, Lw-2.0, Fd-1.4,
Classification for   Clhdw3 (use classification for   Clhdw3 (us	Others-1.0 v-2.0, Fd-1.4, Others
Classification for   Clemw3    Cle	1.0
classification for 07 1065935 Cw Sx Pw <sup>31</sup> Lw <sup>32203</sup> 1200 700 600 4 20 2.0 Pw-2.0, L ICHmw3) Bl <sup>208</sup>	v-2.0, Fd-1.4, Others
ICHaw3 (use   U8 (mineral   123 123   124   125   126   127	v-2.0, Fd-1.4, Others- 1.0
Christian   Continue	All-0.8
ICHdw3 (use classification for ICHmw3)	All-0.8
ICHdw3 (use classification for 09 nonforested nonforested response of the control	
ICHdw4 101 1065941 Cw Fd Lw Pw <sup>31</sup> Pl <sup>13</sup> Hw Py <sup>9,14</sup> 1200 700 600 7 20 2.0 Lw-2.0, F	v-2.0, Pl-2.0, Fd-1.4, Others-1.0
ICHdw4 102 1065938 Fd Py <sup>203</sup> Lw Pl <sup>13</sup> 600 400 400 7 1.0	-1.4, Fd-1.0, Others- 0.8
ICHdw4 103 1065939 Fd Lw Py <sup>203</sup> Pl <sup>13</sup> Pw <sup>31</sup> 1000 500 400 7 20 2.0 Pl-1.4, Pv	-1.4, Lw-1.4, Fd-1.0, Others-0.8
ICHOW4 104 1065940 Fd58 Lw Pw <sup>31</sup> PI Py <sup>3665</sup> CW 1200 700 600 7	v-2.0, Pl-2.0, Fd-1.4, Others-1.0
ICHOW4 110 1065942 Cw Pw1,31 Sx Lw1,32 1200 700 600 4 20 2.0	v-2.0, Pl-2.0, Fd-1.4, Others-1.0
	1.4, Others-0.8
DI COL	1.4, Others-0.8
I ICHmk1 I 101 I 1069820 ICW Ed58 I W Sx I BI 19,1320,200 PI I 200 I 700 I 700 I 70 I 20 I 2 0 I	1-2.0 FD 1.4 CW 1.0
	X 1.0 BL 1.0
	X 1.0 BL 1.0 D 1.0 PY 0.8 LW 1.4
ICHmk1 104 1069823 Fd <sup>32,58</sup> Lw <sup>32</sup> Pl Bl <sup>208</sup> 1200 700 600 7 20 2.0 PL 2.0 LW	
SX SX	0 1.0 PY 0.8 LW 1.4 N 1.4 FD 1.0 PY 0.8 2.0 FD 1.4 SX 1.0 BL
ICHmk1 110 1069825 Cw Fd <sup>32,58</sup> Lw <sup>32</sup> Sx BI <sup>208</sup> 1200 700 600 4 20 2.0 LW 2.0 Fd	O 1.0 PY 0.8 LW 1.4 W 1.4 FD 1.0 PY 0.8
	D 1.0 PY 0.8 LW 1.4 W 1.4 FD 1.0 PY 0.8 2.0 FD 1.4 SX 1.0 BL 1.0 2.0 FD 1.4 SX 1.0 BL
	D 1.0 PY 0.8 LW 1.4 W 1.4 FD 1.0 PY 0.8 2.0 FD 1.4 SX 1.0 BL 1.0 2.0 FD 1.4 SX 1.0 BL 1.0 CW 1.0 D 1.4 CW 0.8 SX 0.8
ICHmk2 01 1066286 Sx Cw Fd <sup>3258</sup> Pl <sup>201</sup> Bl <sup>208</sup> Lw <sup>32203</sup> 1200 700 600 7 20 2.0 Pl-2.0, Lv	0 1.0 PY 0.8 LW 1.4 W 1.4 FD 1.0 PY 0.8 2.0 FD 1.4 SX 1.0 BL 1.0 2.0 FD 1.4 SX 1.0 BL 1.0 CW 1.0 D 1.4 CW 0.8 SX 0.8 BL 0.8
ICHmk2 02 1066283 Fd Pl Lw <sup>203</sup> Sx <sup>10,13</sup> 600 400 400 4 20 1.0 Pl-1.4, Lv	D 1.0 PY 0.8 LW 1.4  V 1.4 FD 1.0 PY 0.8  2.0 FD 1.4 SX 1.0 BL  1.0  2.0 FD 1.4 SX 1.0 BL  1.0 CW 1.0  D 1.4 CW 0.8 SX 0.8  BL 0.8  8 SX 0.8 BL 0.8  8 SX 0.8 BL 0.8  -2.0, Fd-1.4, Sx-0.8,  Others-1.0
ICHmk2 03 1066284 Fd BI <sup>13 28 208</sup> 1000 500 400 7 20 2.0 Pl-1.4, Lv	D 1.0 PY 0.8 LW 1.4 W 1.4 FD 1.0 PY 0.8 2.0 FD 1.4 SX 1.0 BL 1.0 2.0 FD 1.4 SX 1.0 BL 1.0 CW 1.0 D 1.4 CW 0.8 SX 0.8 BL 0.8 8 SX 0.8 BL 0.8 8 SX 0.8 BL 0.8 -2.0, Fd-1.4, Sx-0.8,
ICHmk2 04 1066285 Fd <sup>58</sup> Sx <sup>1328</sup> Cw Bl <sup>1328 208</sup> Lw <sup>203</sup> 1200 700 600 7 20 2.0 Pl-2.0, Lv	D 1.0 PY 0.8 LW 1.4  V 1.4 FD 1.0 PY 0.8  2.0 FD 1.4 SX 1.0 BL  1.0  2.0 FD 1.4 SX 1.0 BL  1.0 CW 1.0  D 1.4 CW 0.8 SX 0.8  BL 0.8  8 SX 0.8 BL 0.8  8 SX 0.8 BL 0.8  -2.0, Fd-1.4, Sx-0.8,  Others-1.0  -1.4, Fd-1.0, Others-0.8

						1		1		1	1
ICHmk2	05 (Sx-	1066287	Sx Fd <sup>32 58</sup> Cw <sup>14 32</sup> Bl <sup>201 208</sup>	Pl Lw <sup>203</sup>	1200	700	600	4	20	2.0	Pl-2.0, Lw-2.0, Fd-1.4, Others-
	dominant) 05 (Cw-		Sx Cw Fd 32 58								1.0 Pl-2.0, Lw-2.0, Fd-1.4, Others-
ICHmk2	dominant)	1066288	BI <sup>201</sup> <sup>208</sup>	PI Lw <sup>203</sup>	1200	700	600	4	20	2.0	1.0
ICHmk2	06	1066289	Sx <sup>1</sup> Cw <sup>1 32</sup>	PI <sup>1</sup> BI <sup>1 208</sup>	1000	500	400	4	20	1.0	Pl-1.4, Others-0.8
ICHmk3	01	1065947	Fd Pl Sx	BI Cw Lw Pw	1200	700	600	4	20	2.0	Pl, Lw, Pw-2,Fd-1.4,Others-1
ICHmk3	02*	1065945	Fd Pl	Sx Lw	1000	500	400	7	20	2.0	Pl-1.4,Fd-1,Others-0.8
ICHmk3	03	1065946	Fd Pl	Cw Sx Lw	1000	500	400	7	20	2.0	Pl, Lw-1.4,Fd-1,Others-0.8
ICHmk3	04 05	1065948	Fd Sx	BI Cw PI Pw	1200 1200	700 700	600	4	20	2.0	Pl, Pw-2,Fd-1.4,Others-1
ICHmk3 ICHmk3	06	1065949 1065950	Sx Pl Fd Sx Cw	Cw Bl Pw Bl Pl Pw	1200	700	600	4	20	2.0	Pl, Pw-2,Others-1 Pl, Pw-2,Fd-1.4,Others-1
ICHmk3	07	1065951	Sx Cw	BI PI PW	1000	500	400	4	20	1.6	Pl, Pw-1.4,Others-0.8
ICHmm	01	1065954	Fd Pl Sx <sup>35</sup> Cw	Bl <sup>29</sup> Hw	1200	700	600	4	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
ICHmm	02	1065952	Fd Pl	Hw Cw Sx	1000	500	400	4	20	1.0	Pl-1.4, Fd-1.4, Others-0.8
ICHmm	03	1065953	Fd Hw Pl Sx	Bl <sup>29</sup> Cw	1200	700	600	4	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
ICHmm	04	1065955	Cw <sup>32</sup> Hw <sup>32</sup>	Bl <sup>29</sup> Pl Pw <sup>31</sup>	1200	700	600	4	20	2.0	Pl-2.0, Pw-2.0, Fd-1.4, Others-
			Sx <sup>35</sup> Fd <sup>32</sup>								1.0
ICHmm	05	1065956	Cw <sup>32</sup> Hw <sup>32</sup> Sx <sup>35</sup> Fd <sup>1,32</sup>	Bl <sup>29</sup> Pl <sup>1</sup>	1200	700	600	4	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
			Cw <sup>1,32</sup> Hw <sup>1,32</sup>								
ICHmm	06	1065957	Pl <sup>1</sup> Sx <sup>1,32,35</sup>	BI <sup>1,29</sup>	1000	500	400	4	20	1.0	Pl-1.4, Others-0.8
			Pl¹ Sb¹								
ICHmm	07*	1065958	Sx <sup>1,32,35</sup>		400	200	200	4	20	1.0	Pl-1.4, Others-0.8
ICI lee ee	08*	1065959	Cw <sup>1,32</sup> Hw <sup>1,32</sup>	BI <sup>1,29,32</sup> PI <sup>1</sup>	400	200	200	4	20	1.0	DI 1.4 Othors 0.9
ICHmm	08*	1065959	Sx <sup>1,32,35</sup>		400	200	200	4	20	1.0	Pl-1.4, Others-0.8
ICHmw2	101	1065963	Fd <sup>58</sup> Lw Cw	BI <sup>10,13,208</sup>	1200	700	600	4		2.0	Lw-2.0, Pw-2.0, Fd-1.4, Others-
			Hw <sup>201</sup> Pw <sup>31</sup>	Sx <sup>10,13</sup>							1.0
ICHmw2	102	1065960	Fd Pl	Lw Py <sup>9,14,203</sup>	1000	500	400	7	20	1.0	Pl-1.4, Lw-1.4, Fd-1.0, Others- 0.8
											0.0
ICHmw2	103	1065961	Fd Lw	Pl <sup>200</sup> Pw <sup>31</sup>	1000	500	400	7		2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
				Cw <sup>13</sup> Py <sup>9,14,203</sup>							Others-1.0
			Cw <sup>10,201</sup> Fd <sup>58</sup>	0.14.202							
ICHmw2	104	1065962	Lw Pw <sup>31</sup>	Pl Hw Py <sup>9,14,203</sup> Sx <sup>10,13</sup>	1200	700	600	7	20	2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
			LW PW31	3X **							Others-1.0
			Cw Hw <sup>201</sup>								
			Fd <sup>1,14,32,58</sup>								Lw-2.0, Pw-2.0, Fd-1.4, Others-
ICHmw2	110	1065964	Lw <sup>1,14,32</sup>		1200	700	600	4		2.0	1.0
			Pw <sup>31</sup> Sx <sup>10,13,201</sup>								
				Fd <sup>1,14,32,58</sup>							
ICHmw2	111	1065965	Cw <sup>32</sup> Pw <sup>1,31</sup> Sx	Hw <sup>32</sup> Lw <sup>1,14,32</sup>	1200	700	600	4	20	2.0	Lw-2.0, Pw-2.0, Fd-1.4, Others- 1.0
ICHmw2	112	1065966	Sx Cw <sup>1,32</sup>	Hw <sup>1,32</sup> Bl <sup>208</sup>	1200	700	600	4		2.0	All-1.0
ICHmw2	113	1065967	Cw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1,208</sup> Hw <sup>1,32</sup>	1000	500	400	4		1.0	All-0.8
ICHmw2	114	1065968	Cw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1,208</sup> Hw <sup>1,32</sup>	1000	500	400	4		1.0	All-0.8
ICHmw3	01	1065974	Fd <sup>58</sup> Cw Sx <sup>10</sup>	Lw <sup>203</sup> Pl Bl <sup>208</sup>	1200	700	600	4	20	2.0	Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4,
Terminas	01	1003374	Pw <sup>31</sup>	Hw	1200	700	000	-	20	2.0	Others-1.0
ICHmw3	02	1065969	Fd Pl	Py <sup>203</sup> Pw <sup>31</sup>	1000	500	400	4	20	1.0	Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0,
				Lw <sup>203</sup>							Others-0.8
ICHmw3	03	1065971	Fd Pl	Lw <sup>203</sup> Pw <sup>31</sup> Py <sup>203</sup>	1000	500	400	7	20	2.0	Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0, Others-0.8
			Fd <sup>58</sup> Pl Cw <sup>28</sup>								Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4,
ICHmw3	04	1065972	Pw <sup>31</sup>	Lw <sup>203</sup> Sx <sup>28</sup>	1200	700	600	7	20	2.0	Others-1.0
	25	4055070	Fd <sup>58</sup> Cw <sup>28</sup>		4000	700	500	_			Pl-2.0, Pw-2.0, Lw-2.0, Fd-1.4,
ICHmw3	05	1065973	Pw <sup>31</sup>	Lw <sup>203</sup> Sx <sup>28</sup> Pl	1200	700	600	7	20	2.0	Others-1.0
ICHmw3	06	1065975	Cw Hw <sup>201</sup> Sx <sup>13</sup>	Fd <sup>58</sup> Pw <sup>31</sup>	1200	700	600	4	20	2.0	Pw-2.0, Lw-2.0, Fd-1.4, Others-
101111113	00	1003373	CW HW 3x	Lw <sup>203</sup> BI <sup>13 208</sup>	1200	700	000	7	20	2.0	1.0
ICHmw3	07	1065976	Cw Hw <sup>201</sup> Sx	Fd <sup>32</sup> Pw <sup>31</sup>	1200	700	600	4	20	2.0	Pw-2.0, Lw-2.0, Fd-1.4, Others-
	00 / 1			Lw <sup>32 203</sup> BI <sup>208</sup>							1.0
ICHmw3	08 (mineral soils with	1065977	Cw <sup>1 32</sup> Hw <sup>1 32</sup>	BI <sup>1 208</sup>	1000	500	400	4	20	1.0	All-0.8
Terminas	horsetail)	1003377	Sx <sup>1</sup>	Di	1000	300	400	7	20	1.0	All-0.0
	08 (organic										
ICHmw3	soils with	1065978	Cw <sup>1 32</sup> Hw <sup>1 32</sup>	BI <sup>1 208</sup>	1000	500	400	4	20	1.0	AII-0.8
	skunk cabbage)		Sx <sup>1</sup>				1	l .			5.5
	cabbage)		Cw Fd <sup>58</sup> Hw <sup>201</sup>								
ICHmw5	101	1065982	Lw Pw <sup>31</sup>	Bg <sup>14,16</sup> Pl	1200	700	600	4		2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
			Sx <sup>10,13</sup>	, ,							Others-1.0
TCI IwF	103	1065070		Pv <sup>9,14,16,203</sup> Lw	1000	500	400	7	20	3.0	Lw-1.4, Pl-1.4, Pw-1.4, Fd-1.0,
ICHmw5	102	1065979	Fd Pl		1000	500	400		ZU	2.0	Others-0.8
ICHmw5	103	1065980	Fd Lw	Pl <sup>200</sup> Pw <sup>31</sup>	1000	500	400	7	I	2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
				Py <sup>9,14,16,203</sup>							Others-1.0
TCI IwF	104	1065004	Fd <sup>58</sup> Lw Pw <sup>31</sup>	Bg <sup>14,16</sup> Hw Pl <sup>200</sup> Pv <sup>9,14,16</sup>	1200	700	600	7	20	3.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
ICHmw5	104	1065981	Cw <sup>201</sup>	Pl <sup>200</sup> Py <sup>9,14,10</sup> Sx <sup>10,13</sup>	1200	700	600	7		2.0	Others-1.0
			Cw Hw								
ICHmw5	110	1065983	Fd <sup>1,14,32,58</sup>	BI <sup>202</sup> Pw <sup>31</sup>	1200	700	600	4		2.0	Lw-2.0, Pw-2.0, Pl-2.0, Fd-1.4,
			Lw <sup>1,14,32</sup> Sx								Others-1.0
				BI <sup>208</sup> Fd <sup>1,32</sup>							Lw-2.0, Pw-2.0, Fd-1.4, Others-
ICHmw5	111	1065984	Cw <sup>32</sup> Sx	Hw <sup>32</sup> Lw <sup>1,32</sup>	1200	700	600	4	20	2.0	1.0
				Pw <sup>31</sup>							
ICHmw5	112	1065985	BI <sup>1,201,208</sup> Sx <sup>1</sup>	Hw <sup>1,32</sup> Cw <sup>1,32</sup>	1200	700	600	4		2.0	All-1.0
ICHmw5	113	1065986	Cw 1,32 Sx1 Cw Hw201	BI <sup>1,208</sup> Hw <sup>1,32</sup>	1000	500	400	4		2.0	All-0.8
ICHvk1	01 02	1065990 1065987	Cw Hw <sup>201</sup> Fd	Pw31 Sx10 13 Sx Bl <sup>208</sup>	1200 1000	700 500	600 400	4	20	2.0 1.0	Pw-2.0, Others-1.0 Fd-1.4, Others-1.0
				Fd <sup>58</sup> Pw <sup>31</sup>							
ICHvk1	03	1065988	Cw Hw <sup>201</sup>	Sx <sup>10</sup> 13 204	1200	700	600	4	20	2.0	Pw-2.0, Fd-1.4, Others-1.0
ICHvk1	04	1065989	Cw Hw <sup>201</sup>	Pw <sup>31</sup> Sx	1200	700	600	4	20	2.0	Pw-2.0, Others-1.0
			BI <sup>201 208</sup> Cw <sup>32</sup>								
ICHvk1	05	1065991	Sx	Hw <sup>32</sup>	1000	500	400	4	20	2.0	All-0.8
ICHvk1	06	1065992	Cw <sup>1 32</sup> Hw <sup>1 32</sup>	BI <sup>1 208</sup>	1000	500	400	4	20	1.0	All-0.8
			Sx <sup>1</sup>				1	<u> </u>			

The Content				204	Sx <sup>10 13</sup> Fd <sup>9 14 32</sup>							Pw-2.0, Lw-2.0, Fd-1.4, Others-
	ICHwk1	01	1066001			1200	700	600	4	20	2.0	
The content   19	ICHwk1	02	1065993	Fd <sup>58</sup> Pl <sup>201</sup> Cw <sup>28</sup>		1000	500	400	7	20	1.0	Fd-1.0, Others-0.8
Deback   Gal	ICHwk1	03	1065999		Lw <sup>203</sup>	1200	700	600	4	20	2.0	Lw-2.0, Fd-1.4, Others-1.0
Depart   D	ICHwk1	04	1066000			1200	700	600	4	20	2.0	Pw-2.0, Lw-2.0, Fd-1.4, Others-
				Cw <sup>32</sup> Sx <sup>201</sup>								
		with BI)		Sx								
Description   10   10   10   10   10   10   10   1												
Company   1921   1922												
Ximon					CW							
Extent   141   100000   1000000   1000000   1000000   10000000   100000000	ICHxm1	103	1069830	Fd <sup>27</sup> Py		600	400	400	7	20	2.0	FD 1.O PY 0.8
Column	ICHxm1	104	1069831		PI <sup>200</sup>	1000	500	400	7	20	2.0	
	ICHxm1	110	1069832	Pw <sup>31</sup>	Sx	1200	700	600	7	20	2.0	SX 1.0
	ICHxm1	111	1069833		Bl <sup>208</sup> Fd <sup>1</sup>	1200	700	600	4	20	2.0	
Control   Cont		112	1069834	Cw <sup>1,32</sup> Sx <sup>1</sup>		1000	500	400	4	20	2.0	CW 1.0 SX 1.0
Diffee   D	classification for IDFdk2 in LMH23)	01	1066010	Fd	,	1000	500	400	7	20	2.0	
Description of the control of the	classification for IDFdk2 in		1066006	Fd <sup>27</sup> Py		600	400	400	4	20	1.0	Fd-0.8, Py-0.6
Description for   Descriptio	classification for IDFdk2 in	steep slopes with bluebunch	1066007	Py <sup>14,27</sup> Fd <sup>27</sup>	Pl <sup>13 28</sup>	1000	500	400	7	20	2.0	Pl-1.0, Fd-0.8, Py-0.6
deastFaction for telepadage. 1066000 Frd** py 14 Pp**** provided assistant on for the program of the provided assistant on for 10f4c (see deastFaction for 10f4c). Provided assistant on for 10f4c. Provided assistant o	classification for IDFdk2 in	-	1066008	Fd <sup>27</sup> Py <sup>14</sup>	Pl <sup>200</sup>	1000	500	400	7	20	2.0	Pl-1.0, Fd-0.8, Py-0.6
dassification for   O4   1066010   Fd	classification for IDFdk2 in	steep slopes with	1066009	Fd <sup>27</sup> Py <sup>14</sup>	Pl <sup>200</sup>	1000	500	400	7	20	2.0	Pl-1.0, Fd-0.8, Py-0.6
Classification for   Direct	classification for IDFdk2 in	04	1066010	Fd		1000	500	400	7	20	2.0	
DFdk2   10   10   10   10   10   10   10   1	classification for IDFdk2 in LMH23)	05	1066011	Fd <sup>32</sup> Sx		1200	700	600	4	20	2.0	
Control   Cont	classification for IDFdk2 in LMH23)	06	1066012			1000	500	400	4	20	1.0	Pl-1.0, Fd-0.8, Others-0.6
Cassification for   DFck2 in   LMH223]   DFck2 in   DFck4   DFck2 in   LMH223]   DFck4   DFck2 in   LMH223]   DFck4   DFck4   DFck2 in   LMH223]   DFck4	classification for IDFdk2 in	07		nonforested	nonforested						-	
IDFdk1	classification for IDFdk2 in	08		nonforested	nonforested						-	
IDFdk1	IDFdk1	101	1066017	Fd Pl <sup>201</sup>	Lw <sup>203</sup>	1000	500	400	7	20	2.0	
IDFdk1												
IDFdk1					Py <sup>9 14</sup> Sx <sup>10 13</sup>							Pl-1.0, Lw-1.0, Fd-0.8, Others-
IDFdk1	IDFdk1	105	1066016	Pl Fd <sup>27,32</sup>	BI <sup>10 208</sup> Sx <sup>10</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Fd-0.8, Bl-0.6,
IDFdk2	IDFdk1	110	1066018	Fd <sup>32</sup> Sx	BI <sup>10 13 208</sup>	1000	500	400	4	20	2.0	
IDFdk2	IDFdk1	111	1066019	PI <sup>1,12</sup> Sx <sup>1</sup>		1000	500	400	4	20	1.0	Pl-1.0, Fd-0.8, Others-0.6
IDFdk2							500					Sx-0.6
IDFdk2												
IDFdk2					Lw <sup>27</sup> 203							
IDFdk2												Pl-1.0, Lw-1.0, Fd-0.8, Sx-0.6,
IDFdk2	IDFdk2	110	1066025	Fd <sup>32</sup> Sx Pl <sup>201</sup>		1200	700	600	4	20	2.0	
IDFdk3	IDFdk2	111	1066026			1000	500	400	4	20	1.0	
IDFdk3         03*         1066028         Fd Pl         Py         800         500         400         7         20         2.0         Pl-1,Fd-0.8,Py-0.8           IDFdk3         04         1066029         Fd Pl         Py         1000         500         400         7         20         2.0         Pl, Py-1,Fd-0.8           IDFdk3         05         1066030         Fd Pl         Py         1200         700         600         7         20         2.0         Pl-1.4,Fd-1,Py-0.8				Fd Pl								
IDFdk3         04         1066029         Fd Pl         Py         1000         500         400         7         20         2.0         Pl, Py-1,Fd-0.8           IDFdk3         05         1066030         Fd Pl         Py         1200         700         600         7         20         2.0         Pl-1.4,Fd-1,Py-0.8												
	IDFdk3	04	1066029	Fd Pl	Ру	1000	500	400	7	20	2.0	Pl, Py-1,Fd-0.8
10 1000031 10 11 Fy 1200 /00 000 / 20 2.0 PI-1.4,FG-1,PY -0.8	IDFdk3 IDFdk3	05 06	1066030 1066031	Fd Pl Fd Pl	Py Py	1200 1200	700 700	600	7	20	2.0	Pl-1.4,Fd-1,Py-0.8 Pl-1.4,Fd-1,Py -0.8
IDFdk3 07 1066033 Fd Pl Sx 1200 700 600 4 20 2.0 Pl-1.4,Fd-1,Sx-0.8			1066033									

IDFdk3	08	1066034	Fd Pl Sx		1200	700	600	4	20	2.0	Pl-1.4,Fd-1,Sx-0.8
IDFdk3	09	1066035	Sx	Pl	1000	500	400	4	20	1.6	Pl-1,Sx-0.6
IDFdm1	101	1069866	Fd Lw	Pl <sup>200</sup> Py <sup>9,14</sup>	1000	500	400	7	20	2.0	LW 1.0 PL 1.0 FD 0.8 PY 0.6
IDFdm1	102	1069868	Fd <sup>27</sup> Py	Lw	600	400	400	7	20	2.0	LW 1.0 FD 0.8 PY 0.6
IDFdm1	103	1069869	Fd <sup>27</sup> Py	PI <sup>10,13,28,204</sup>	600	400	400	7	20	2.0	FD 0.8 PY 0.6
IDFdm1	104 110.1	1069870 1069871	Fd Lw Py <sup>203</sup> Fd <sup>32</sup> Lw <sup>32</sup> Sx	Pl	1000 1200	500 700	400 600	7	20	2.0	LW 1.0 PY 0.6 FD 0.8 PL 1.0 FD 1.0 LW 1.4 SX 0.8 PL 1.4
IDI GITT	110.1	1003071			1200	700	000	,	20	2.0	1D 1.0 EW 1.4 3X 0.0 TE 1.4
IDFdm1	110.2	1069872	Cw <sup>32</sup> Fd <sup>32</sup> Lw <sup>32</sup> Sx <sup>10,13,201</sup>		1200	700	600	7	20	2.0	CW 0.8 FD 1.0 LW 1.4 SX 0.8 PL 1.4
IDFdm1	111	1069873	Fd <sup>32</sup> Lw <sup>32</sup> Sx	Pl Cw <sup>1,32</sup> Pl <sup>1</sup>	1000	500	400	4	20	2.0	FD 1.0 LW 1.0 SX 0.8 PL 1.0
IDFdm1	112	1069874	Sx <sup>1</sup> Fd <sup>58</sup> Cw <sup>28</sup>	Pl <sup>200</sup> Lw <sup>203</sup>	1000	500	400	4	20	2.0	SX 0.6 CW 0.6 PL 1.0 Pl-1.6, Lw-1.6, Fd-1.0, Others-
IDFmw2	01	1066044	Pw <sup>31</sup>	Sx <sup>10 28</sup>	1200	700	600	4	20	2.0	0.8
IDFmw2	02	1066042	Fd Pl	Py <sup>203</sup> Pw <sup>31</sup>	600	400	400	4	20	1.0	Pl-1.2, Pw-1.2, Fd-0.8, Py-0.6
	00	4055040	- 1	Lw <sup>203</sup> Pw <sup>31</sup>	4000	500	400	_	20	2.0	Pl-1.6, Pw-1.6, Lw-1.6, Fd-1.0,
IDFmw2	03	1066043	Fd	Py <sup>203</sup> Pl <sup>200</sup>	1000	500	400	7	20	2.0	Others- 0.8
IDFmw2	04 (lack abundant devil's club)	1066045	Fd <sup>58</sup> Cw Sx <sup>10 13</sup>	Pw <sup>31</sup> Lw <sup>203</sup> Bl <sup>208</sup> Pl	1200	700	600	4	20	2.0	Pw-1.6, Pl-1.6, Lw-1.6, Fd-1.0, Others- 0.8
	04										
IDFmw2	(abundant devil's club present)	1066046	Cw Fd <sup>58</sup> Sx	Hw Pw <sup>31</sup> Lw <sup>32 203</sup> Bl <sup>208</sup>	1200	700	600	4	20	2.0	Pw-1.6, Lw-1.6, Fd-1.0, Others- 0.8
IDFmw2	05	1069890	Cw <sup>1 32</sup> Hw <sup>1 32</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	1000	500	400	4	20	1.0	All-0.6
				Pw <sup>28 31</sup> Lw <sup>203</sup>							
IDFww	01	1066051	Fd Py	Pl <sup>200</sup> Sx <sup>28</sup> Gw <sup>28</sup>	600	400	400	4	20	2.0	Pw-1.6, Pl-1.6, Lw-1.6, Fd-1.0, Others- 0.8
IDFww	02	1066048	Fd Py		1200	700	600	7	20	1.0	Fd-1.0, Py-0.8
IDFww	03	1066049	Fd Py <sup>914</sup>	Pl Sx <sup>10 28</sup> Cw <sup>10 28</sup> Lw <sup>203</sup>	1200	700	600	7	20	2.0	Pl-1.6, Lw-1.6, Fd-1.0, Others- 0.8
				Pw <sup>28 31</sup> Lw <sup>203</sup>							
IDFww	04	1066050	Fd Py <sup>9 14</sup>	Pl <sup>200</sup> Sx <sup>28</sup> Gw <sup>28</sup>	600	400	400	4	20	2.0	Pw-1.6, Pl-1.6, Lw-1.6, Fd-1.0, Others- 0.8
IDFww	05	1066052	Cw Fd	Pw <sup>31</sup> Lw <sup>203</sup>	1200	700	600	4	20	2.0	Pw-1.6, Lw-1.6, Fd-1.0, Others-
											0.8
IDFww	06	1066053	Sx Fd	Lw <sup>1 203</sup>	1200	700	600	4	20	2.0	Lw-1.6, Fd-1.0, Others-0.8
IDFww	07 (abundant devil's club present)	1066054	Cw Sx <sup>13</sup>	Fd <sup>1 32</sup> Lw <sup>1 32 203</sup>	1200	700	600	4	20	2.0	All-0.6
IDFww	07 (abundant horsetail present)	1066055	Cw <sup>1</sup> Sx <sup>1 13</sup>	BI <sup>1 13 208</sup>	400	200	200	4	20	1.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	01	1066060	Fd <sup>27</sup> Py		1000	500	400	7	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	02	1066056	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	03	1066057	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	04	1066058	Py Fd <sup>27</sup>		600	400	400	7	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in	05	1066059	Fd <sup>27</sup> Py		1000	500	400	7	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in	06	1066061	Fd	Ру	1200	700	600	7	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	07	1066062	Cw <sup>14</sup> Fd Sx <sup>13</sup>		1200	700	600	4	20	2.0	All-0.6
IDFxc (use classification for IDFxh2 in LMH23)	08	1066063	Sx <sup>1</sup> Fd <sup>1</sup> Cw <sup>132</sup>		1000	500	400	4	20	1.0	All-0.6
IDFxh1	101	1066069	Fd <sup>27</sup> Py		1000	500	400	7	20	2.0	All-0.6
IDFxh1	102	1066064	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	All-0.6
IDFxh1	103	1066065	Py Fd		400	200	200	7	20	1.0	All-0.6
IDFxh1	104	1066066	Py Fd <sup>27</sup>		600	400	400	7	20	2.0	All-0.6
IDFxh1	105	1066067	Py Fd <sup>27</sup>		600	400	400	7	20	2.0	All-0.6
IDFxh1	106 110	1066068 1066070	Py Fd <sup>27</sup> Fd <sup>27</sup>	Py <sup>9</sup>	1000	400 500	400 400	7	20	2.0	All-0.6 All-0.6
IDFxh1	111.1	1066070	Fd <sup>22</sup> Sx <sup>13</sup>	Py <sup>9</sup> Pl <sup>12</sup>	1200	700	600	4	20	2.0	All-0.6 Pl-1.0, Others-0.8
IDFxh1	111.1	1066071	Fd Cw <sup>1432</sup>	Pl <sup>12</sup>	1200	700	600	4	20	2.0	PI-1.0, Others-0.8
IDFxh1	112	1066073	Sx <sup>1</sup> Fd <sup>1 32</sup>	PI <sup>1 12 50</sup> Cw <sup>1 32 50</sup>	1200	700	600	4	20	1.0	Pl-1.0, Others-0.8
IDFxh2	101	1066077	Fd <sup>27</sup> Py		1000	500	400	7	20	2.0	All-0.6
IDFxh2	102	1066074	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	All-0.6
IDFxh2	103	1066075	Py Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.6
IDFxh2	104	1066076	Py Fd <sup>27</sup>		600	400	400	7	20	2.0	All-0.6
IDFxh2 IDFxh2	110 111	1066078 1066079	Fd Fd	Py Pv	1200 1200	700 700	600	7	20	2.0	All-0.6 All-0.6
IDEXIIZ	111	10000/9		Py	1200	700	500	,	20	2.0	
IDFxh2	112	1066080	Fd Sx <sup>13</sup>	Py Cw <sup>1432</sup> Pl <sup>12</sup>	1200	700	600	4	20	2.0	All-0.6

IDFxh2	113	1066081	Sx <sup>1</sup> Fd <sup>1 32</sup>	PI <sup>1 12 50</sup>	1000	500	400	4	20	1.0	Pl-0.8, Others-0.6
IDFxm	01a	1066086	Fd	Cw <sup>1 32 50</sup> Py	1200	700	600	7	20	2.0	All-0.8
IDFxm	01b	1066087	Fd Pl	Ру	1200	700	600	7	20	2.0	All-0.8
IDFxm IDFxm	02* 03	1066082 1066083	Fd Fd Pl	Py Py	1000	500 500	400 400	7	20	2.0	Fd-0.6,Py-0.8 Pl, Py-0.8,Fd-0.6
IDFxm	04	1066084	Fd	Ру	1000	500	400	7	20	2.0	Fd-0.6,Py-0.8
IDFxm IDFxm	05 06	1066085 1066088	Fd Fd	Py PI Py Lw	1200 1200	700 700	600	7	20	2.0	Fd, Py-0.8 Fd-0.8,Pl, Py, Lw-1
IDFxm	07	1066089	Fd	Pl	1200	700	600	7	20	2.0	Fd-0.8,Pl -1
IDFxm IDFxm	08 09	1066090 1066091	Fd Sx Pl Sx	Pl	1200 1000	700 500	600 400	4	20	1.6 1.6	Pl, Fd, Sx-0.8 Pl-0.8,Sx-0.6
IDFxw	01	1066096	Fd Py		1200	700	600	7	20	2.0	Fd, Py-0.8
IDFxw IDFxw	02* 03*	1066092 1066093	Fd Py Fd Py		600	400 400	300 300	7	20	2.0	Fd, Py-0.6 Fd, Py-0.6
IDFxw	04	1066094	Fd Py		800	500	400	7	20	2.0	Fd, Py-0.6
IDFxw IDFxw	05 06	1066095 1066097	Fd Fd Sx		1200 1200	700 700	600 600	7	20	2.0	Fd-0.8 Fd, Sx-0.6
IDFxw	07	1066098	Fd Sx		1000	500	400	4	20	1.6	Fd, Sx-0.6
MHmm2 <sup>47</sup>	01	1069892	Ba <sup>47</sup> Hm Yc <sup>17</sup> Se		900	500	400	7	20	2.0	Hm-1.0, Yc-1.0, Se-1.0, Ba-0.6
MHmm2 <sup>47</sup>	01	1069893	Yc <sup>13,17</sup>	BI <sup>13,45,47,53</sup> Hm <sup>13</sup> Se <sup>13</sup> Fd <sup>14,23</sup> Hw <sup>14,44</sup> Cw <sup>14</sup>	900	500	400	7	20	2.0	Bp-1.25, Hm-1.0, Hw-1.0, Bl- 1.0, Yc-1.0, Se-1.0, Fd-1.25, Ba- 0.6, Cw-1.0
MHmm2 <sup>47</sup>	02	1069891	BI <sup>45,47,53</sup> Hm Se Yc <sup>17</sup>	Ba <sup>47</sup>	440	400	400	4	20	1.0	BI-0.75, Hm-0.75, Hw-0.75, Yc- 0.75, Se-0.75, Ba-0.6
MHmm2 <sup>47</sup>	03	1069894	Ba <sup>47</sup> Hm Se Yc <sup>17</sup>		900	500	400	4	20	2.0	Bp-1.25, Bl-1.0, Hm-1.0, Hw- 1.0, Yc-1.0, Se-1.0, Ba-0.6
MHmm2 <sup>47</sup>	04	1069895	Ba <sup>47</sup> Hm Yc <sup>17</sup>		900	500	400	7	20	2.0	BI-1.0, Hm-1.0, Hw-1.0, Yc-1.0, Ba-0.6
MHmm2 <sup>47</sup>	05	1069896	Ba <sup>47</sup> Se Yc <sup>17</sup>	Hm	900	500	400	4	20	2.0	Bp-1.25, Bl-1.0, Hm-1.0, Hw- 1.0, Yc-1.0, Se-1.0, Ba-0.6
MHmm2 <sup>47</sup>	06	1069897	Hm <sup>1</sup> Yc <sup>17</sup>	Ba <sup>1</sup>	800	400	400	7	20	2.0	Hm-0.75, Yc-0.75, Ba-0.6
MHmm2 <sup>47</sup>	07	1069898	Ba <sup>1,47</sup> Se <sup>1</sup> Yc <sup>17</sup>	Hm <sup>1</sup>	900	500	400	4	20	2.0	Hm-0.75, Hw-0.75, Yc-0.75, Se- 0.75, Ba-0.6
MHmm2 <sup>47</sup>	08*	1069899	Hm <sup>1</sup> Yc <sup>1,17</sup>	- 1	400	200	200	4	20	1.0	Hm-0.75, Yc-0.75
MHmm2 <sup>47</sup> MSdc1 (use	09	1069900		Se <sup>1</sup> Lw <sup>14 32 203</sup>	800	400	400	4	20	1.0	Hm-0.75, Yc-0.75, Se-0.75
classification for MSdc)	01	1066168	PI <sup>201</sup> Sx BI <sup>201</sup> <sup>208</sup> Fd <sup>14 32</sup>	Pw <sup>31</sup> Pa <sup>31</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdc1 (use classification for MSdc) MSdc1 (use	01 (cold air drainage)	1066169	Sx Bl <sup>201 208</sup> Fd <sup>14</sup>	Pl	1200	700	600	7	20	1.0	Pl-1.4, Others-0.8
classification for MSdc)	02 (high elevations)	1066165	PI Fd <sup>14</sup> Pa <sup>1331</sup>	Py <sup>9 14 203</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSdc1 (use classification for MSdc)	02 (low elevations)	1066166	Pl Fd	Lw <sup>203</sup> Py <sup>9 14 203</sup>	1000	500	400	4	20	1.0	Pl-1.0, Lw-1.1, Others-0.6
MSdc1 (use classification for MSdc)	03	1066167	Pl Fd <sup>932</sup>	Sx <sup>28</sup> BI <sup>28</sup> <sup>208</sup> Pw <sup>31</sup> Lw <sup>932</sup> Pa <sup>31</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.1, Others-0.6
MSdc1 (use classification for MSdc)	04	1066170	Sx Bl <sup>201 208</sup>	Pl	1200	700	600	7	20	2.0	Pl-1.4, Others-0.8
MSdc1 (use classification for MSdc) MSdc3(use	05		nonforested	nonforested						-	
classification for MSdc)	01	1066173	Pl <sup>201</sup> Sx Bl <sup>201</sup> <sup>208</sup> Fd <sup>14 32</sup>	Lw <sup>14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdc3 (use classification for MSdc) MSdc3 (use	01 (cold air drainage)	1066174	Sx Bl <sup>201 208</sup> Pl <sup>201</sup>	Fd <sup>14 32</sup>	1200	700	600	7	20	2.0	Pl-1.4, Others-0.8
classification for MSdc)	02	1066171	Pl <sup>201</sup> Fd <sup>14</sup> Pa <sup>1331</sup>	Py <sup>1432</sup>	1000	500	400	7	20	1.0	Pl-1.0, Others-0.6
MSdc3 (use classification for MSdc)	03	1066172	Pl Fd <sup>932</sup>	Sx <sup>28</sup> BI <sup>28</sup> <sup>208</sup> Pa <sup>13</sup> <sup>31</sup> Py <sup>914</sup> Lw <sup>9</sup> <sup>32</sup> <sup>203</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdc3 (use classification for MSdc)	04	1066175	Sx BI <sup>201 208</sup> PI <sup>201</sup>		1200	700	600	4	20	2.0	Pl-1.4, Others-0.8
MSdc3 (use classification for MSdc)	05		nonforested	nonforested						-	
MSdm1	101	1069875	Fd <sup>14,32,203</sup> Lw <sup>14,32,203</sup> Sx	BI <sup>204,208</sup> PI <sup>200</sup>	1200	700	600	7	20	2.0	FD 1.0 LW 1.4 SX 0.8 BL 0.8 PL 1.4
MSdm1	102	1069876	Fd Lw Py <sup>9,14,203</sup>	Pl	600	400	400	7	20	2.0	FD 1.0 LW 1.0 PY 0.8 PL 1.0
MSdm1	103	1069877	Fd Lw Py <sup>9,14,203</sup>	Pl <sup>200</sup>	1000	500	400	7	20	2.0	FD 0.8 LW 1.4 PY 0.8 PL 1.4
MSdm1	104	1069878	Pl Fd <sup>32</sup> Lw <sup>32</sup>	BI <sup>208</sup> Sx <sup>28</sup>	1200	700	600	7	20	2.0	PL 1.4 FD 0.8 LW 1.4 BL 0.8 SX 0.8
MSdm1	110	1069879	Pl <sup>201</sup> Sx Bl <sup>201,208</sup>	Fd <sup>14,32</sup> Lw <sup>14,32</sup>	1200	700	600	4	20	2.0	PL 1.4 SX 1.0 BL 1.0 FD 1.0 LW 1.4
MSdm1	111.1	1069880	BI <sup>201,208</sup> PI <sup>201</sup> Sx	Fd <sup>14,32</sup> Lw <sup>14,32</sup>	1200	700	600	4	20	2.0	PL 1.4 SX 1.0 BL 1.0 FD 1.0 LW 1.4
MSdm1	111.2	1069881	Cw <sup>32</sup> Lw <sup>32</sup> Sx	BI <sup>208</sup> Fd <sup>14,32</sup> PI	1200	700	600	4	20	2.0	CW 1.0 LW 1.4 SX 1.0 BL 1.0 FD 1.0 PL 1.4
MSdm1	112	1069882	BI <sup>201,208</sup> Sx	Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl	1200	700	600	4	20	2.0	BL 1.0 SX 1.0 FD 1.0 LW 1.4 PL 1.4
MSdm1	113	1069883	BI <sup>1,201,208</sup> Sx <sup>1</sup> BI <sup>201,208</sup>	PI <sup>1</sup>	1000	500	400	4	20	2.0	BL 0.8 SX 0.8 PL 1.0
MSdm2	101	1066198	Fd <sup>9</sup> <sup>14</sup> <sup>32</sup> Pl Sx	Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	102	1066176	Pl Fd <sup>14</sup>	Py <sup>14 203</sup> BI <sup>13 204 208</sup>	600	400	400	4	20	1.0	Pl-1.0, Others-0.6

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MSdm2	103	1066195	Fd <sup>32</sup> Pl	Lw <sup>32 203</sup> Py <sup>9</sup> <sup>203</sup> Bl <sup>10 13 204</sup> <sup>208</sup> Sx <sup>10,13 204</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm2	104	1066196	Fd <sup>9 14 32</sup> Pl Sx <sup>10 13 28</sup>	BI <sup>10 13 28 208</sup> Lw <sup>14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	105	1066197	PI Sx BI <sup>201 208</sup>	Fd <sup>9,14,32</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	110	1066199	PI Sx BI <sup>201 208</sup>	Lw <sup>9 14 32 203</sup> Fd <sup>9 14 32</sup>	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	111	1066200	PI Sx BI <sup>201</sup> 208	Fd <sup>14 32</sup> Lw <sup>14 32 203</sup>	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	112	1066201	Sx BI <sup>201</sup> 208	Pl Fd <sup>91432</sup> Lw <sup>91432203</sup>	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm2	113	1066202	Pl¹ Sx¹	BI <sup>1 208</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSdm3 (use											
classification for MSdm2 in LMH23)	01	1066206	Pl Sx Fd <sup>1432</sup> Bl <sup>201 208</sup>	Lw <sup>14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classification for MSdm2 in LMH23)	02		nonforested	nonforested						-	
MSdm3 (use classification for MSdm2 in LMH23)	03 (shallow soils)	1066203	Pl Fd <sup>14</sup>	Py <sup>14 203</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSdm3 (use classification for MSdm2 in LMH23)	03 (deep soils)	1066204	Fd <sup>14</sup> Pl	BI <sup>10 13 204 208</sup> Sx <sup>10 13 204</sup> Lw <sup>32 203</sup> Py <sup>14 203</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSdm3 (use classification for MSdm2 in LMH23)	04	1066205	Fd <sup>14 32</sup> Pl Sx <sup>13</sup>	BI <sup>13 208</sup> Lw <sup>14,32,203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classification for MSdm2 in LMH23)	05	1066207	PI Sx BI <sup>201 208</sup>	Fd <sup>1432</sup> Lw <sup>1432203</sup>	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classification for MSdm2 in LMH23)	06	1066208	Sx BI <sup>201 208</sup>	PI <sup>200</sup> Fd <sup>14 32</sup> Lw <sup>14 32 203</sup> Cw <sup>32</sup>	1200	700	600	4	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSdm3 (use classification for MSdm2 in LMH23)	07	1066209	Sx <sup>1</sup> BI <sup>1201208</sup>	Pl <sup>1 200</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSxk1	101	1066215	Pl Fd <sup>91432</sup> Sx <sup>1013</sup>	BI <sup>10,13 208</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	102	1066210	Pl Fd <sup>9 14 32</sup>	Py <sup>14 203</sup> Lw <sup>9 14 32 203</sup>	1000	500	400	4	20	1.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk1	103	1066211	Pl Fd <sup>9 1432</sup>		1000	500	400	4	20	2.0	Pl-1.0, Others-0.6
MSxk1	104	1066213	Pl	Sx <sup>13</sup> Fd <sup>1432</sup> BI <sup>13208</sup> Lw <sup>1432203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	105	1066214	Pl Sx <sup>1013</sup>	BI <sup>1013 208</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk1	110	1066216	PI Sx	BI <sup>10 13 208</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	4	20	2.0	PI-1.4, Others-0.8
MSxk1	111	1066217	Pl, Sx	BI <sup>208</sup>	1200	700	600	4	20	2.0	Pl-1.4, Others-0.8
MSxk1 MSxk1	112 113	1066218 1066219	Pl <sup>1</sup> Sx <sup>1</sup>	BI <sup>1,208</sup>	1000	500 500	400 400	4	20	1.0	Pl-1.0, Others-0.6 Pl-1.0, Others-0.6
MSxk2	101	1066272	Pl Fd <sup>9 14 32</sup> Sx <sup>10 13</sup>	BI <sup>10 13 208</sup> Lw <sup>914 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk2	102	1066220	Pl Fd <sup>9 14 32</sup>	BI <sup>13 28 204 208</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSxk2	103	1066245	Pl Fd <sup>9 14 32</sup>	Sx <sup>10 13 28</sup> Py <sup>14 203</sup>	1000	500	400	4	20	2.0	Pl-1.0, Others-0.6
MSxk2	104	1066246	Pl <sup>201</sup> Fd <sup>32</sup>	Lw <sup>9 14 32 203</sup>	1000	500	400	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk2	105	1066247	Pl	Sx <sup>10 13</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.0, Lw-1.0, Others-0.6
MSxk2	106	1066271	Pl Sx <sup>10 13</sup>	BI <sup>10 13 208</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.4, Lw-1.4, Others-0.8
MSxk2	110	1066273	PI Sx	BI <sup>10 13 208</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	4	20	2.0	Pl-1.4, Others-0.8
MSxk2	111	1066274	PI Sx	BI <sup>208</sup>	1200	700	600	4	20	2.0	Pl-1.4, Others-0.8
MSxk3 (use classification for MSxk)	01	1066275	Sx <sup>1</sup> PI Fd <sup>9 1432</sup> Sx <sup>10 13 28 204</sup>	BI <sup>1208</sup> PI <sup>1200</sup> BI <sup>10 13 204 208</sup> Lw <sup>9 14 32 203</sup>	1200	700	600	7	20	2.0	Pl-1.0, Others-0.6 Pl-1.4, Lw-1.4, Others-0.8
MSxk3 (use classification for MSxk)	02	1066276	Pl Fd <sup>9 14</sup>	BI <sup>10 13 204 208</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSxk3 (use classification for MSxk)	03		nonforested							2.0	
MSxk3 (use classification for MSxk)	04		nonforested							2.0	
MSxk3 (use classification for MSxk)	05 (steep warm slopes)	1066277	Pl Fd <sup>9 1432</sup>	BI <sup>10</sup> 13 28 204 208 Sx <sup>10</sup> 13 28 204 Py <sup>9</sup> 14 32 203 Lw <sup>9</sup> 14 32 203	1000	500	400	7	20	2.0	PI-1.0, Lw-1.0, Others-0.6

MSxk3 (use classification for MSxk3 (use classification for MSxk3 (use classification for MSxk3 (use classification for MSxk3 (use classification for MSxk)	06 07	1066280	PI Sx BI <sup>201 208</sup>	Fd <sup>14 32</sup>							
classification for MSxk)  MSxk3 (use classification for MSxk)  MSxk3 (use classification for	07				1200	700	600	7	20	2.0	Pl-1.4, Others-0.8
classification for MSxk)  MSxk3 (use classification for			not present in MSxk3	not present in MSxk3						-	
classification for	08	1066281	Sx BI <sup>201</sup> 208	Pl <sup>200</sup>	1200	700	600	4	20	2.0	Pl-1.4, Others-0.8
	09	1066282	Sx <sup>1</sup>	BI <sup>1 208</sup> PI <sup>1 200</sup>	1000	500	400	4	20	1.0	Pl-1.0, Others-0.6
MSxv	01	1066102	Pl Sx	Bl	1200	700	600	7	20	2.0	Pl-1,Others-0.8
MSxv MSxv	02	1066099 1066100	Pl Pl		1000	500 500	400 400	7	20	2.0	PI-0.8 PI-0.8
MSxv	03	1066101	PI Sx	BI	1200	700	600	7	20	2.0	PI-1,Others-0.8
MSxv	05	1066103	Pl Sx	Bl	1200	700	600	7	20	2.0	Pl-1,Others-0.8
MSxv	06	1066104	Pl Sx	Bl	1200	700	600	7	20	2.0	Pl-1,Others-0.8
MSxv	07	1066105	PI Sx	BI	1000	500	400	4	20	2.0	Pl-0.8,Others-0.6
MSxv MSxv	08 09	1066106 1066107	Sx Sx	PI BI	1000 400	500 200	400 200	4	20	1.6 1.6	PI-0.8,Others-0.6 PI-0.8,Others-0.6
PPxh1	101	1066111	Py Fd <sup>27</sup>	ITBI	400	200	200	7	20	2.0	All-0.6
PPxh1	102	1066108	Py <sup>27</sup>	Fd <sup>27</sup>	400	200	200	7	20	1.0	All-0.6
PPxh1	102	1066108	Py <sup>27</sup>	Fd <sup>27</sup>	400	200	200	7	20	2.0	All-0.6
PPxh1	104	1066110	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.6
PPxh1	110	1066112	Fd Py		600	400	400	7	20	2.0	All-0.6
PPxh1	111	1066113	Fd Py		1000	500	400	7	20	2.0	All-0.6
PPxh2	101	1066117	Py Fd <sup>27</sup>		400	200	200	7	20	2.0	All-0.6
PPxh2	102	1066114	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	20	1.0	All-0.6
PPxh2	103	1066115	Py <sup>27</sup> Fd <sup>27</sup>	D :	400	200	200	7	20	2.0	All-0.6
PPxh2 PPxh2	110.1 110.2	1066118 1066308	Fd Fd	Py Py	600	400 400	400 400	7	20	2.0	All-0.6 All-0.6
PPxh2	111	1066119	Fd	Py	600	400	400	4	20	2.0	All-0.6
SBPSmk	01	1066125	Fd Pl Sx	Lw	1200	700	600	7	20	2.0	Pl, Lw-1.6,Fd-1,Sx-0.8
SBPSmk	02*	1066121	Fd Pl	Sx Py	1000	500	400	7	20	2.0	Pl, Py-1.2,Fd-0.8,Sx-0.6
SBPSmk	03	1066122	Fd Pl		1200	700	600	7	20	2.0	Pl-1.6,Fd-1
SBPSmk	04	1066123	Fd Pl Sx	Lw	1200	700	600	7	20	2.0	Pl, Lw-1.6,Fd-1,Others-0.8
SBPSmk SBPSmk	05 06	1066124 1066126	Fd Pl Sx Pl Sx	Lw	1200	700 700	600	7	20	2.0	Pl, Lw-1.6,Fd-1,Sx-0.8 Pl-1.6,Sx-0.8
SBPSmk	07	1066127	Sx	Pl Bl	1000	500	400	4	20	1.6	Pl-1.2,Others-0.6
SBPSmk	08	1066128	Sx Pl	Sb	400	200	150	4	20	1.6	Pl-1.2,Others-0.6
SBSdh	01	1066134	Fd Pl Sx	BI <sup>29</sup>	1200	700	600	7	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
SBSdh	02*	1066129	Pl	Sx	1000	500	400	7	20	1.0	Pl-1.4, Sx-0.8
SBSdh	03*	1066131	Fd Lw <sup>23</sup> Pl	Pw <sup>16,31</sup>	1000	500	400	7	20	2.0	Pl-1.4, Pw-1.4, Lw-1.4, Fd-1.0
SBSdh	04	1066132	Fd Pl Sx <sup>28</sup>		1200	700	600	7	20	2.0	Pl-2.0, Fd-1.4, Sx-1.0
SBSdh	05	1066133	Pl	Sb Sx <sup>32</sup>	1200	700	600	7	20	2.0	Pl-2.0, Others-1.0
SBSdh SBSdh	06 07	1066135	Fd Sx Fd <sup>1,32</sup> Pl <sup>1</sup>	Bl <sup>29</sup> Pl Bl <sup>1,29,32</sup>	1200	700 500	400	7	20	2.0	Pl-2.0, Fd-1.4, Others-1.0 Pl-1.4, Fd-1.0, Others-0.8
SBSdh	08*	1066137	Sx <sup>1,32</sup> Pl <sup>1</sup> Sb <sup>1</sup> Sx <sup>1,32</sup>	ы	400	200	200	4	20	1.0	Pl-1.4, Others-0.8
SBSdw1	01	1066142	Fd Pl Sx	BILw	1200	700	600	7	20	2.0	Pl, Lw-2,Fd-1.4,Others-1
SBSdw1	02*	1066138	Fd Pl	Lw	1000	500	400	7	20	2.0	Pl, Lw-1.4,Fd-1
SBSdw1 SBSdw1	03 04	1066139 1066140	Fd Pl Fd Pl Sx	Lw	1200	700 700	600	7	20	2.0	Pl-2,Fd, Lw-1.4 Pl-2,Fd-1.4,Sx-1
SBSdw1	04	1066141	Fd Pl Sx	Lw	1200	700	600	7	20	2.0	PI-2,Fd-1.4,SX-1 PI-2,Fd, Lw-1.4,SX-1
SBSdw1	06	1066143	Fd Pl Sx	<u>-</u>	1200	700	600	7	20	2.0	Pl-2,Fd-1.4,Others-1
SBSdw1	07	1066144	Fd Pl Sx	Bl	1200	700	600	4	20	2.0	Pl-2,Fd-1.4,Others-1
SBSdw1	08	1066145	Fd Pl Sx	BI	1200	700	600	4	20	2.0	Pl-2,Fd-1.4,Others-1
SBSdw1	09	1066146	SX	BI PI	1000	500	400	4	20	1.6	Pl-1.4,Others-0.8
SBSmc1	01	1066149	Fd Pl Sx	BILW	1200	700 500	400	7	20	2.0	Pl, Lw-1.6,Fd-1,Others-0.8
SBSmc1 SBSmc1	02*	1066147 1066148	Pl Fd Pl	BI Sx Lw Sx Lw	1000 1200	500 700	400 600	7	20	2.0	Pl, Lw-1.4,Others-0.6 Pl, Lw-1.4,Fd-1,Sx-0.8
SBSmc1	04	1066150	PI Sx	BI	1200	700	600	7	20	2.0	Pl-1.6,Others-0.8
SBSmc1	05	1066151	Pl Sx	Bl	1200	700	600	7	20	2.0	Pl-1.6,Others-0.8
SBSmc1	06	1066152	Fd Pl Sx	BI	1200	700	600	4	20	2.0	Pl-1.6,Fd-1,Others-0.8
SBSmc1	07 08	1066153	Fd Pl Sx	BI BI PI	1200 1000	700	600	4	20	2.0	Pl-1.6,Fd-1,Others-0.8
SBSmc1 SBSmm	01	1066154	Sx Pl <sup>201</sup> Sx Bl <sup>201</sup> 208	Fd <sup>9 14 32</sup>	1200	700	600	7	20	2.0	Pl-1.2,Others-0.6 Pl-2.0, Fd-1.4, Others-1.0
SBSmm	02	1066155	Pl	Sx Fd <sup>32</sup> Bl <sup>28 208</sup>	1000	500	400	4	20	1.0	PI-1.4, Fd-1.0, Others-0.8
SBSmm	03	1066156	PI Sx	BI <sup>208</sup> Fd <sup>9 14 32</sup>	1000	500	400	7	20	2.0	Pl-1.4, Fd-1.0, Others-0.8
SBSmm	04	1066157	Pl Sx	BI <sup>208</sup> Fd <sup>9 14 32</sup>	1000	500	400	7	20	2.0	Pl-1.4, Fd-1.0, Others-0.8
SBSmm	05	1066158	Pl Sx	BI <sup>208</sup> Fd <sup>9 14 32</sup>	1000	500	400	7	20	2.0	Pl-1.4, Fd-1.0, Others-0.8
	06	1066159	Pl <sup>201</sup> Sx Bl <sup>201</sup> 208	Fd <sup>9 14 32</sup>	1200	700	600	7	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
SBSmm				DI 200 - 22							
SBSmm	07	1066161	Sx BI <sup>201 208</sup>	Pl <sup>200</sup> Cw <sup>32</sup> Fd <sup>32</sup>	1200	700	600	4	20	2.0	Pl-2.0, Fd-1.4, Others-1.0
SBSmm	07 07 (cold air draiange) 08	1066161 1066162 1066163	Sx Bl <sup>201208</sup> Sx Bl <sup>201208</sup> Sx Bl <sup>201208</sup> Bl <sup>1208</sup> Sx <sup>132</sup>		1200 1200 1000	700 700 500	600 600 400	4 4	20 20 20	2.0	Pl-2.0, Fd-1.4, Others-1.0  Pl-2.0, Others-1.0  Pl-1.4, Others-0.8

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

BGC Classif	fication		Regeneration and Free Growing Stocking Standard										
Zone/SZ	Site Series	Stocking Standards ID	Preferred (p) Species	Acceptable (a) Species	Layer**	Target (well-	MIN pa		MITD	Minimum Height at Free Growing Species Height (m)			
			Cw Fd <sup>58</sup> Lw Sx	· · · · ·	1	600	300	250	0.0	1 3 1 7			
			BI <sup>10,13,28,208</sup> PI Cw Fd <sup>58</sup> Lw Sx BI <sup>10,13,28,208</sup>										
ICHmk1	101	1065174	PI		2	800	400	300	2.0	Pl Lw 2.0, Fd 1.4, Cw Sx Bl 1.0			
			Cw Fd <sup>58</sup> Lw Sx	BI <sup>10,13,28,208</sup> PI BI <sup>10,13,28,208</sup> PI	3	1000	500	400	2.0				
			Cw Fd <sup>58</sup> Lw Sx Fd Py <sup>14,203</sup> Lw Pl <sup>13</sup>	BIy	1	1200 300	700 150	600 150	0.0				
ICHmk1	102	1065171	Fd Py <sup>14,203</sup> Lw Pl <sup>13</sup>		2	400	200	200	1.0	Pl Lw 1.4, Fd 1.0, Py 0.8			
			Fd Py <sup>14,203</sup> Fd Py14,203	Lw Pl <sup>13</sup>	3	500 600	300 400	300 400	1.0				
			Fd Lw Pl Py <sup>9,14,203</sup>	LWIII	1	400	200	200	0.0				
ICHmk1	103	1065172	Fd Lw Pl Py <sup>9,14,203</sup>	DI D. 914 202	2	600	300	250	2.0	Pl Lw 1.4, Fd 1.0, Py 0.8			
			Fd Lw Fd Lw	Pl Py <sup>9,14,203</sup> Pl Py <sup>9,14,203</sup>	3	800 1000	400 500	300 400	2.0				
			Fd <sup>32,58</sup> Lw <sup>32</sup> Pl Sx Bl <sup>208</sup>		1	600	300	250	0.0				
ICHmk1	104	1065173	Fd <sup>32,58</sup> Lw <sup>32</sup> Pl Sx Bl <sup>208</sup> Fd <sup>32,58</sup> Lw <sup>32</sup> Pl Sx	BI <sup>208</sup>	2	800 1000	400 500	300 400	2.0	Pl Lw 2.0 Fd 1.4 Sx Bl 1.0			
			Fd <sup>32,58</sup> Lw <sup>32</sup> Pl Sx	BI <sup>208</sup>	4	1200	700	600	2.0				
			Fd <sup>58</sup> Lw Pl <sup>201</sup> Sx <sup>10,28,201</sup> Bl <sup>13,204,208</sup> Cw <sup>10,28,32</sup>		1	600	300	250	0.0				
			Fd <sup>58</sup> Lw Pl <sup>201</sup> Sx <sup>10,28,201</sup>										
ICHmk1	105	1065175	BI <sup>13,204,208</sup> Cw <sup>10,28,32</sup>		2	800	400	300	2.0	Pl Lw 2.0, Fd 1.4, Sx Bl Cw 1.0			
			Fd <sup>58</sup> Lw Pl <sup>201</sup> Sx <sup>10,28,201</sup> Fd <sup>58</sup> Lw Pl <sup>201</sup> Sx <sup>10,28,201</sup>	BI <sup>13,204,208</sup> Cw <sup>10,28,32</sup> BI <sup>13,204,208</sup> Cw <sup>10,28,32</sup>	3	1000 1200	500 700	400 600	2.0				
			Cw Fd <sup>32,58</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup>	DI CW	1	600	300	250	0.0				
ICHmk1	110	1065176	Cw Fd <sup>32,58</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup>	.200	2	800	400	300	2.0	Lw 2.0 Fd 1.4 Cw Sx BI 0.8			
			Cw Fd <sup>32,58</sup> Lw <sup>32</sup> Sx Cw Fd <sup>32,58</sup> Lw <sup>32</sup> Sx	BI <sup>208</sup>	3	1000	500 700	400 600	2.0				
			Cw <sup>32</sup> Sx Bl <sup>208</sup>	5.	1	600	300	250	0.0				
ICHmk1	111	1065177	Cw <sup>32</sup> Sx Bl <sup>208</sup>	BI <sup>208</sup>	2	800 1000	400 500	300 400	2.0	Cw Sx BI 0.8			
			Cw <sup>32</sup> Sx Cw <sup>32</sup> Sx	BI <sup>208</sup>	4	1200	700	600	2.0				
			Cw <sup>1,32</sup> Sx <sup>1</sup> Bl <sup>1,208</sup>		1	400	200	200	0.0				
ICHmk1	112	1065178	Cw <sup>1,32</sup> Sx <sup>1</sup> BI <sup>1,208</sup> Cw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1,208</sup>	2	600 800	300 400	250 300	2.0	Cw 0.8 Sx 0.8 BI 0.8			
			Cw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1,208</sup>	4	1000	500	400	2.0				
			Fd Lw Cw Pw Pl Fd Lw Cw Pw Pl		1 2	600 800	300 400	250 300	0.0 2.0				
ICHxm1	101	1065263	Fd <sup>58</sup> Lw Pw <sup>31</sup>	Cw <sup>28,204</sup> PI	3	1000	500	400	2.0	Pw Pl Lw(2.0),Fd(1.4),Cw(1.0)			
			Fd <sup>58</sup> Lw Pw <sup>31</sup>	Cw <sup>28,204</sup> Pl	4	1200 300	700 150	600 150	2.0				
ICHxm1	102	1065259	Fd Py Fd Py		2	400	200	200	1.0	Fd(0.8), Py(0.6)			
CHAITT	102	1003233	Fd Py Fd Py		3	500 600	300 400	300 400	1.0	1 4(0.0), 1 9(0.0)			
			Fd Py		1	300	150	150	0.0				
ICHxm1	103	1065260	Fd Py Fd Py		2	400 500	200 300	200 300	1.0	Fd(1.0), Py(0.8)			
			Fd Py		4	600	400	400	1.0				
			Fd Lw Pw Py Pl Fd Lw Pw Py Pl		2	400 600	300	200	2.0				
ICHxm1	104	1065262	Fd <sup>58</sup> Lw Pw <sup>31</sup> Py <sup>9,14,201,203</sup>	PJ200	3	800	400	300	2.0	Pw Pl Lw(2.0), Fd(1.4), Others(1.0)			
			Fd <sup>58</sup> Lw Pw <sup>31</sup> Py <sup>9,14,201,203</sup> Fd Cw Sx Lw Pw	PJ200	1	1000 600	500 300	400 250	0.0				
ICHxm1	110	1065264	Fd Cw Sx Lw Pw		2	800	400	300	2.0	Pw Lw(2.0),Fd(1.4),Others(1.0)			
ECIAIII I	110	1003204	Cw Fd <sup>58</sup> Lw Pw <sup>31</sup>	Sx	3	1000	500	400	2.0	1 VV LVV(2.0),1 U(1.4), U(1815(1.0)			
			Cw Fd <sup>58</sup> Lw Pw <sup>31</sup> Cw Sx Pw Fd Bl	Sx	4 1	1200 600	700 300	600 250	0.0				
ICHxm1	111	1065265	Cw Sx Pw Fd Bl Cw <sup>1,32</sup> Pw <sup>1,31</sup> Sx <sup>1,201</sup>	D1208 E41	2	800 1000	400 500	300 400	2.0	Pw(2.0),Fd(1.4),Others(1.0)			
			Cw <sup>1,32</sup> Pw <sup>1,31</sup> Sx <sup>1,201</sup>	Bl <sup>208</sup> Fd <sup>1</sup> Bl <sup>208</sup> Fd <sup>1</sup>	4	1200	700	600	2.0				
IDFdc (use			Fd Pl Py Sx Lw		1	400	200	200	0.0				
ssification for	1	1065183	Fd Pl Py Sx Lw Fd	PI <sup>200</sup> Py <sup>14,203</sup> Sx <sup>10,13</sup> Lw	3	800 800	300 400	250 300	2.0	Pl Lw(1.0),Fd(0.4),Sx Py(0.6)			
dk2 in LMH23)			Fd	Pl <sup>200</sup> Py <sup>14,203</sup> Sx <sup>10,13</sup> Lw	4	1000	500	400	2.0				
IDFdc (use			Fd Py Fd Py		1 2	300 400	150 200	150 200	0.0				
ssification for dk2 in LMH23)	2	1065179	Fd <sup>27</sup> Py		3	500	300	300	1.0	Fd(0.4), Py(0.6)			
LIVII 123)			Fd <sup>27</sup> Py Py Fd Pl		4	600 400	400 200	400 200	1.0				
IDFdc (use	03 (very steep slopes with	1005400	Py Fd Pl		2	600	300	250	2.0	DI/4 0) 54/0 4) 5 /0 C			
ssification for dk2 in LMH23)	bluebunch	1065180	Py <sup>14,27</sup> Fd <sup>27</sup>	PJ13 28	3	800	400	300	2.0	Pl(1.0), Fd(0.4), Py(0.6)			
	wheatgrass)		Py <sup>14,27</sup> Fd <sup>27</sup> Fd Pl Py	Pl13 28	4	1000 400	500 200	400 200	0.0				
IDFdc (use ssification for	03 (shallow	1065181	Fd Pl Py		2	600	300	250	2.0	Pl(1.0), Fd(0.4), Py(0.6)			
dk2 in LMH23)	soils)	. 203.01	Fd <sup>27</sup> Py <sup>14</sup>	Pl <sup>200</sup>	3	800 1000	400	300	2.0				
	02.4		Fd <sup>27</sup> Py <sup>14</sup> Fd Pl Py	PJ <sup>200</sup>	1	1000 400	200	200	0.0				
<b>IDFdc</b> (use ssification for	03 (very steep slopes with	1065182	Fd Pl Py		2	600	300	250	2.0	Pl(1.0), Fd(0.4), Py(0.6)			
dk2 in LMH23)	pinegrass)		Fd <sup>27</sup> Py <sup>14</sup>	Pl <sup>200</sup>	3	800 1000	400 500	300 400	2.0				
IDEde (vac			Fd <sup>27</sup> Py <sup>14</sup> Fd Sx Pl Cw Bl Lw	PI	1	600	300	250	0.0				
<b>IDFdc</b> (use ssification for	5	1065185	Fd Sx Pl Cw Bl Lw	ni 12200 c32ni 209 :	2	800	400	300	2.0	Pl Lw(1.4),Fd(0.4),Others(0.8)			
			Fd <sup>32</sup> Sx	PI 12 200 Cw 32 BI 208 Lw	3	1000	500	400	2.0				

	1	1	PI Sx Fd BI Cw		1	400	200	200	0.0	
IDFdc (use			Pl Sx Fd Bl Cw		2	600	300	250	1.0	
classification for	6	1065186	PI <sup>1,12</sup> Sx <sup>1</sup> Fd <sup>1,32</sup>	BI <sup>1,12,13</sup> Cw <sup>32</sup>	3	800	400	300	1.0	Pl(1.0),Fd(0.4),Others(0.6)
IDFdk2 in LMH23)			PI <sup>1,12</sup> Sx <sup>1</sup> Fd <sup>1,32</sup>	BI <sup>1,12,13,208</sup> Cw <sup>32</sup>	4	1000	500	400	1.0	
			Fd Pl Py Sx Lw		1	400	200	200	0.0	
IDFdk1	101	1065191	Fd Pl Py Sx Lw		2	600	300	250	2.0	Pl Lw(1.0),Fd(0.4),Py Sx(0.6)
IST GIVT		1003131	Fd Pl <sup>201</sup>	Py <sup>9,14</sup> Sx <sup>10,13</sup> Lw <sup>203</sup>	3	800	400	300	2.0	11 211(110),1 ((0.11),1 ) 5.((0.0)
			Fd Pl <sup>201</sup>	Py <sup>9,14</sup> Sx <sup>10,13</sup> Lw <sup>203</sup>	4	1000	500	400	2.0	
			Fd Pl Py		1	300	150	150	0.0	
IDFdk1	102	1065187	Fd Pl Py	D.914	2	400	200	200	1.0	Pl(1.0),Fd(0.4),Py(0.6)
			Fd <sup>27</sup> Pl	Py <sup>9,14</sup>	3	500	300	300	1.0	
			Fd <sup>27</sup> Pl	Py <sup>9,14</sup>	4	600	400	400	1.0	
			Fd Py Pl		1	300	150	150	0.0	
IDFdk1	103	1065188	Fd Py Pl	Pl <sup>13</sup>	2	400	200	200	1.0	Pl(1.0),Fd(0.4),Py(0.6)
			Fd <sup>27</sup> Py <sup>14</sup> Fd <sup>27</sup> Py <sup>14</sup>		3	500	300	300	1.0	
			-	Pl <sup>13</sup>	4	600	400	400	1.0	
			Fd Pl Py Sx Lw		1 2	400 600	200 300	200 250	0.0 2.0	
IDFdk1	104	1065189	Fd Pl Py Sx Lw Fd Pl <sup>201</sup>	Py <sup>9,14</sup> Sx <sup>10,13</sup> Lw <sup>203</sup>	3	800	400	300	2.0	Pl Lw(1.0),Fd(0.4),Others(0.6)
			Fd Pl <sup>201</sup>	Py <sup>9,14</sup> Sx <sup>10,13</sup> Lw <sup>203</sup>	4	1000	500	400	2.0	
	1		PI Fd BI Sx Lw	.,	1	400	200	200	0.0	
			PI Fd BI Sx Lw		2	600	300	250	2.0	
IDFdk1	105	1065190	Pl Fd <sup>27,32</sup>	BI <sup>10,208</sup> Sx <sup>10</sup> Lw <sup>27 32 203</sup>	3	800	400	300	2.0	Pl Lw(1.0),Fd(0.4),Sx(0.6)
			Pl Fd <sup>27,32</sup>	BI <sup>10,208</sup> Sx <sup>10</sup> Lw <sup>27 32 203</sup>	4	1000	500	400	2.0	
			Fd Sx BI PI Lw	51	1	400	200	200	0.0	
			Fd Sx Bl Pl Lw		2	600	300	250	2.0	
IDFdk1	111	1065192	Fd <sup>32</sup> Sx	BI <sup>10,13,208</sup> PI Lw <sup>32 203</sup>	3	800	400	300	2.0	Pl Lw(1.0),Fd(0.4),Others(0.6)
	1		Fd <sup>32</sup> Sx	BI <sup>10,13,208</sup> PI Lw <sup>32 203</sup>	4	1000	500	400	2.0	
			Fd Pl Py Sx Lw		1	400	200	200	0.0	
IDFdk2	101	1065239	Fd Pl Py Sx Lw		2	600	300	250	2.0	DL 1 w/4 0) Ed/0 4) O+1(0 C)
1DFak7	101	1065239	Fd Pl <sup>zu1</sup>	Py <sup>9,14</sup> Sx <sup>10,13</sup> Lw <sup>203</sup>	3	800	400	300	2.0	Pl Lw(1.0),Fd(0.4),Others(0.6)
	<u></u>		Fd Pl <sup>201</sup>	Py <sup>9,14</sup> Sx <sup>10,13,204</sup> Lw <sup>203</sup>	4	1000	500	400	2.0	
			Fd Py Pl		1	300	150	150	0.0	
IDFdk2	102	1065194	Fd Py Pl		2	400	200	200	1.0	Pl(1.0), Fd(0.4), Py(0.6)
IDI UKZ	102	1003194	Fd <sup>27</sup> Py <sup>9,14</sup> Pl		3	500	300	300	1.0	. i(1.0), i a(0.4), i y(0.0)
	<u></u>	<u> </u>	Fd <sup>27</sup> Py <sup>9,14</sup> Pl		4	600	400	400	1.0	
			Py Fd Pl		1	300	150	150	0.0	
IDFdk2	103	1065195	Py Fd Pl		2	400	200	200	1.0	Pl(1.0), Fd(0.4), Py(0.6)
IDT GILL	.05	1003133	Py <sup>14,27</sup> Fd <sup>27</sup>	Pl <sup>13 28</sup>	3	500	300	300	1.0	( ,
			Py <sup>14,27</sup> Fd <sup>27</sup>	Pl <sup>13 28</sup>	4	600	400	400	1.0	
			Fd Pl Py Lw		1	400	200	200	0.0	
IDFdk2	104	1065196	Fd Pl Py Lw	Dv 14 L vv 27 203	2	600	300	250	2.0	Pl Lw(1.0),Fd(0.4),Py(0.6)
			Fd <sup>27</sup> Pl <sup>201</sup>	Py <sup>14</sup> Lw <sup>27</sup> 203	3	800	400	300	2.0	
			Fd <sup>27</sup> Pl <sup>201</sup>	Py <sup>14</sup> Lw <sup>27 203</sup>	4	1000	500	400	2.0	
			PI Fd BI Sx Lw		1	400	200	200	0.0	
IDFdk2	105	1065197	PI Fd BI Sx Lw PI Fd <sup>27,32</sup>	BI <sup>10,208</sup> Sx <sup>10</sup> Lw	2	600 800	300 400	250 300	2.0	Pl Lw(1.0),Fd(0.4),Others(0.6)
			PI Fd <sup>27,32</sup>	BI <sup>10,204,208</sup> Sx <sup>10,204</sup> Lw <sup>203</sup>						
			Fd Sx Pl Cw Bl Lw	BI SX LW	1	1000 600	500 300	400 250	0.0	
			Fd Sx Pl Cw Bl Lw		2	800	400	300	2.0	
IDFdk2	110	1065240	Fd <sup>32</sup> Sx Pl <sup>201</sup>	Cw <sup>32</sup> Bl <sup>,208</sup> Lw <sup>32</sup> 203	3	1000	500	400	2.0	Pl Lw(1.4),Fd(0.4),Others(0.8)
			Fd <sup>32</sup> Sx Pl <sup>201</sup>	Cw <sup>32</sup> Bl <sup>,208</sup> Lw <sup>32</sup> 203	4	1200	700	600	2.0	
			PI Sx Fd BI	CW DI LW	1	400	200	200	0.0	
			PI Sx Fd BI		2	600	300	250	1.0	
IDFdk2	111	1065241	Pl <sup>1,12</sup> Sx <sup>1</sup> Fd <sup>1,32</sup>	BI1,12,13,208 Cw 32	3	800	400	300	1.0	Pl(1.0),Fd(0.4),Others(0.6)
			PI <sup>1,12</sup> Sx <sup>1</sup> Fd <sup>1,32</sup>	BI <sup>1,12,13,208</sup>	4	1000	500	400	1.0	
			Fd Pl Sx		1	600	300	250	0.0	
TDE-II-2	04	4005247	Fd Pl Sx		2	800	400	300	2.0	D(4, 4) E-(40, 4) C. (0, 0)
IDFdk3	01	1065247	Fd <sup>27,32</sup> Pl	Sx <sup>13,28</sup>	3	1000	500	400	2.0	Pl(1.4),Fd(0.4),Sx(0.8)
		<u></u>	Fd <sup>27,32</sup> Pl	Sx <sup>13,28</sup>	4	1200	700	600	2.0	
	1		Fd Pl		1	300	150	150	0.0	
IDFdk3	02	1065242	Fd Pl		2	400	200	200	1.0	PI(1.0), Fd(0.4)
	1		Fd <sup>27</sup> Pl		3	600	300	300	1.0	
	<u> </u>		Fd <sup>27</sup> Pl		4	800	400	400	1.0	
	1		Fd Pl Fd Pl		2	300 400	150 200	150 200	0.0 1.0	
IDFdk3	03	1065243	Fd <sup>27</sup> Pl		3	600	300	300	1.0	Pl(1.0), Fd(0.4)
	ĺ	ĺ	Fd <sup>27</sup> Pl		4	800	400	400	1.0	
	<del>                                     </del>	1	Fd Pl		1	400	200	200	0.0	
	1		Fd Pl		2	600	300	250	2.0	
IDFdk3	04	1065244	Fd <sup>27</sup> Pl		3	800	400	300	2.0	Pl(1.4),Fd(0.4)
	1		Fd <sup>27</sup> Pl		4	1000	500	400	2.0	
			Fd Pl		1	600	300	250	0.0	
		46	Fd Pl		2	800	400	300	2.0	ple ··· = ···
IDFdk3	05	1065245	Fd <sup>27</sup> Pl		3	1000	500	400	2.0	Pl(1.4),Fd(0.4)
	Ì	ĺ	Fd <sup>27</sup> Pl		4	1200	700	600	2.0	
			Fd Pl		1	600	300	250	0.0	
וחביווים	000	1065345	Fd Pl		2	800	400	300	2.0	DIM ALEANO AL
IDFdk3	06	1065246	Fd <sup>27</sup> Pl		3	1000	500	400	2.0	Pl(1.4),Fd(0.4)
			Fd <sup>27</sup> Pl		4	1200	700	600	2.0	
			Fd Pl Sx		1	600	300	250	0.0	
IDFdk3	07	1065248	Fd Pl Sx		2	800	400	300	2.0	Pl(1.0),Fd(0.4),Sx(0.6)
: 31.5	]		Fd <sup>32</sup> Pl Sx		3	1000	500	400	2.0	
			Fd <sup>32</sup> Pl Sx		4	1200	700	600	2.0	
		<u></u>	Fd Pl Sx		1	600	300	250	0.0	
IDFdk3	08	1065249	Fd Pl Sx		2	800	400	300	2.0	Pl(1.0),Fd(0.4),Sx(0.6)
·	1		Fd <sup>32</sup> Pl Sx		3	1000	500	400	2.0	
			Fd <sup>32</sup> Pl Sx		4	1200	700	600	2.0	
	1		Sx Pl		1	400	200	200	0.0	
IDFdk3	09	1065250	Sx Pl Sx <sup>1,32</sup>	Pl <sup>1</sup>	2	600 800	300 400	250 300	1.0	Pl(1.0),Sx(0.6)
	Ì	ĺ	Sx <sup>1,32</sup>		4					
<u> </u>	l .	l .	DX '	Pl <sup>1</sup>	4	1000	500	400	1.0	

			Fd Lw Pl <sup>200</sup> Py <sup>9,14</sup>		1	400	200	200	0.0	
			Fd Lw Pl <sup>200</sup> Py <sup>9,14</sup>		2	600	300	250	2.0	
IDFdm1	101	1065254	Fd Lw	Pl <sup>200</sup> Py <sup>9,14</sup>	3	800	400	300	2.0	Pl Lw(1.0), Fd(0.8), Py(0.6)
			Fd Lw	Pl <sup>200</sup> Py <sup>9,14</sup>	4	1000	500	400	2.0	
			Fd <sup>27</sup> Py Lw		1	300	150	150	0.0	
IDFdm1	102	1065251	Fd <sup>27</sup> Py Lw		2	400	200	200	1.0	Lw (1.0),Fd(0.8),Py (0.6)
IDI dili i	102	1003231	Fd <sup>27</sup> Py	Lw	3	500	300	300	1.0	EW (1.0),1 d(0.0),1 y (0.0)
			Fd <sup>27</sup> Py	Lw	4	600	400	400	1.0	
			Fd <sup>27</sup> Py		1	300	150	150	0.0	
IDFdm1	103	1065252	Fd <sup>27</sup> Py		2	400	200	200	2.0	Fd(0.8),Py (0.6)
IDI dili i	103	1003232	Fd <sup>27</sup> Py		3	500	300	300	2.0	1 4(0.0),1 y (0.0)
			Fd <sup>27</sup> Py		4	600	400	400	2.0	
			Fd Lw Py <sup>203</sup> Pl <sup>10,13,28,204</sup>		1	400	200	200	0.0	
IDFdm1	104	1065253	Fd Lw Py <sup>203</sup> Pl <sup>10,13,28,204</sup>		2	600	300	250	2.0	Pl Lw(1.0),Fd(0.8), Py (0.6)
			Fd Lw Py <sup>203</sup>	P[10,13,28,204	3	800	400	300	2.0	
			Fd Lw Py <sup>203</sup>	P[10,13,28,204	4	1000	500	400	2.0	
			Fd <sup>32</sup> Sx Lw <sup>32</sup> Pl		1	600	300	250	0.0	
IDFdm1	110.1	1065255	Fd <sup>32</sup> Sx Lw <sup>32</sup> Pl		2	800	400	300	2.0	Pl Lw(1.4),Fd(1.0),Sx(0.8)
			Fd <sup>32</sup> Sx Lw <sup>32</sup>	Pl 	3	1000	500	400	2.0	
			Fd <sup>32</sup> Sx Lw <sup>32</sup>	Pl	4	1200	700	600	2.0	
			Fd <sup>32</sup> Lw <sup>32</sup> Cw <sup>32</sup> Sx <sup>10,13,201</sup> Fd <sup>32</sup> Lw <sup>32</sup> Cw <sup>32</sup> Sx <sup>10,13,201</sup>		1 2	600 800	300	250	0.0	
IDFdm1	110.2	1065256	Fd <sup>32</sup> Lw <sup>32</sup> Cw <sup>32</sup> Sx <sup>10,13,201</sup>		3	1000	400 500	300 400	2.0	Cw Sx (0.8),Fd (1.0),Lw (1.4)
			Fd <sup>32</sup> Lw <sup>32</sup> Cw <sup>32</sup> Sx <sup>10,13,201</sup>							
			Fd <sup>32</sup> Lw <sup>32</sup> Sx Pl		1	1200 400	700 200	600 200	0.0	
			Fd <sup>32</sup> Lw <sup>32</sup> Sx Pl							
IDFdm1	111	1065257	Fd <sup>32</sup> Lw <sup>32</sup> Sx Pl	Pl	2	600 800	300 400	250 300	2.0	Pl Lw Fd (1.0), Sx (0.8)
			Fd <sup>32</sup> Lw <sup>32</sup> Sx	PI PI	4	1000	400	300		
			Sx <sup>1</sup> Cw <sup>1</sup> 32 Pl <sup>1</sup>	rT	1	400	500 200	400 200	0.0	
			Sx1 Cw1 32 Pl1		2	600	300	250		
IDFdm1	112	1065258		Cw <sup>1,32</sup> Pl <sup>1</sup>	3	800	400	300	1.0	Sx Cw (0.6), Pl 1.0
			Sx <sup>1</sup>	Cw <sup>1,32</sup> Pl <sup>1</sup>	4	1000	500	400	1.0	
			Fd Cw Pl Lw Pw Sx	CVV II	1	600	300	250	0.0	
			Fd Cw Pl Lw Pw Sx		2	800	400	300	2.0	
IDFmw2	1	1065270	Fd <sup>58</sup> Cw <sup>28</sup> Pw <sup>31</sup>	Pl <sup>200</sup> Lw <sup>203</sup> Sx <sup>10 28</sup>	3	1000	500	400	2.0	Pl Lw(1.6),Fd(1.0),Others(0.8)
			Fd <sup>58</sup> Cw <sup>28</sup> Pw <sup>31</sup>	Pl <sup>200</sup> Lw <sup>203</sup> Sx <sup>10 28</sup>	4	1200	700	600	2.0	
			Fd Pl Py Pw		1	300	150	150	0.0	
IDFmw2	2	1065268	Fd Pl Py Pw	D 202 D 21	2	400	200	200	1.0	Pl Pw(1.2),Fd(0.8),Py(0.6)
			Fd Pl	Py <sup>203</sup> Pw <sup>31</sup>	3	500	300	300	1.0	
			Fd Pl	Py <sup>203</sup> Pw <sup>31</sup>	4	600	400	400	1.0	
			Fd Lw Pw Py Pl		1	400	200	200	0.0	
IDFmw2	3	1065269	Fd Lw Pw Py Pl Fd	Lw <sup>203</sup> Pw <sup>31</sup> Py <sup>203</sup> Pl <sup>200</sup>	2	600 800	300 400	250 300	2.0	Pl Pw Lw(1.6),Fd(1.0),Others(0.8)
				Lw <sup>203</sup> Pw <sup>31</sup> Py <sup>203</sup> Pl <sup>200</sup>	4					
			Fd Fd Cw Sx Pw Lw Bl Pl	EW 1W 19 11	1	1000 600	500 300	400 250	0.0	
	04 subhygric,		Fd Cw Sx Pw Lw Bl Pl		2	800	400	300	2.0	
IDFmw2	no devil's	1065271	Fd <sup>58</sup> Cw Sx	Pw <sup>31</sup> Lw <sup>203</sup> BI <sup>208</sup> PI	3	1000	500	400	2.0	PI Pw Lw(1.6),Fd(1.0),Others(0.8)
	club		Fd <sup>58</sup> Cw Sx <sup>10,13</sup>	Pw <sup>31</sup> Lw <sup>203</sup> BI <sup>208</sup> PI	4	1200	700	600	2.0	
			Cw Fd Sx Hw Pw Lw Bl	111 211 31 11	1	600	300	250	0.0	
	04 moist sites		Cw Fd Sx Hw Pw Lw Bl		2	800	400	300	2.0	
IDFmw2	withdevil's	1065272	Cw Fd <sup>58</sup> Sx	Hw Pw <sup>31</sup> Lw <sup>32 203</sup> BI <sup>208</sup>	3	1000	500	400	2.0	Pl Pw Lw(1.6),Fd(1.0),Others(0.8)
	club		Cw Fd <sup>58</sup> Sx	Hw Pw <sup>31</sup> Lw <sup>32 203</sup> Bl <sup>208</sup>	4	1200	700	600	2.0	
			Cw Hw Sx BI		1	400	200	200	0.0	
			Cw Hw Sx BI		2	600	300	250	1.0	
IDFmw2	5	1065273	Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	3	800	400	300	1.0	AII(0.6)
			Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	4	1000	500	400	1.0	
			Fd Py Pw Lw Pl Sx Cw		1	300	150	150	0.0	
			Fd Py Pw Lw Pl Sx Cw		2	400	200	200	2.0	
IDFww	1	1065277	Fd Py	Pw <sup>28 31</sup> Lw <sup>203</sup> Pl <sup>200</sup> Sx <sup>28</sup> Cw <sup>28</sup>	3	500	300	300	2.0	Fd(1.0), Lw, Pw, Pl(1.6),Others(0.8)
15	·	1003277	·u·y			500	500	500	2.0	1 4(110), 211, 111, 11(110), 3(110)
			Fd Py	Pw <sup>28 31</sup> Lw <sup>203</sup> Pl <sup>200</sup> Sx <sup>28</sup> Cw <sup>28</sup>	4	600	400	400	2.0	
			Fd Py	JA CVV	1	600	300	250	0.0	
			Fd Py		2	800	400	300	1.0	
IDFww	2	1065274	Fd Py		3	1000	500	400	1.0	Fd(1.0),Py(0.8)
			Fd Py		4	1200	700	600	1.0	
			Fd Py Lw Cw Sx Pl		1	600	300	250	0.0	
IDFww	3	1065275	Fd Py Lw Cw Sx Pl		2	800	400	300	2.0	Pl Lw(1.6),Fd(1.0),Others(0.8)
TO! AA AA	J	.003273	Fd Py <sup>9,14</sup>	PI Sx <sup>10 28</sup> Cw <sup>10 28</sup> Lw <sup>203</sup>	3	1000	500	400	2.0	244(1.0),1 4(1.0),0001613(0.0)
			Fd Py <sup>9,14</sup>	PI Sx <sup>10 28</sup> Cw <sup>10 28</sup> Lw <sup>203</sup>	4	1200	700	600	2.0	
			Fd Py Pl Sx Cw Lw Pw		1	300	150	150	0.0	
IDFww	4	1065276	Fd Py Pl Sx Cw Lw Pw	Dw28311203 pi200 c 20 c 20	2	400 500	200	200 300	2.0	Pl Pw Lw(1.6),Fd(1.0),Others(0.8)
			Fd Py 914	Pw <sup>28 31</sup> Lw <sup>203</sup> Pl <sup>200</sup> Sx <sup>28</sup> Cw <sup>28</sup>	3	500	300	300	2.0	• • • • • •
			Fd Py 914 Ed Cw Pw Lw Ba	Pw <sup>28 31</sup> Lw <sup>203</sup> Pl <sup>200</sup> Sx <sup>28</sup> Cw <sup>28</sup>	1	600	400 300	400 250	0.0	
			Fd Cw Pw Lw Bg Fd Cw Pw Lw Bg		2	800	400	300	2.0	
IDFww	5	1065278	Cw Fd	Pw <sup>31</sup> Lw <sup>203</sup>	3	1000	500	400	2.0	Pw, Lw(1.6),Fd(1.0),Others(0.8)
			Cw Fd	Pw <sup>31</sup> Lw <sup>203</sup>	4	1200	700	600	2.0	
			Sx Fd Lw		1	600	300	250	0.0	
10.5		40550=-	Sx Fd Lw		2	800	400	300	2.0	Live of the order
IDFww	6	1065279	Sx Fd	Lw <sup>1 203</sup>	3	1000	500	400	2.0	Lw(1.6),Fd(1.0),Others(0.8)
			Sx Fd	Lw <sup>1 203</sup>	4	1200	700	600	2.0	
			Sx Bl Cw		1	600	300	250	0.0	
IDFww	7 abundant	1065280	Sx BI Cw	E 14.22	2	800	400	300	2.0	AII(0.6)
	devil's club		Cw Sx <sup>13</sup>	Fd <sup>1 32</sup> Lw <sup>1 32 203</sup>	3	1000	500	400	2.0	V7
			Cw Sx <sup>13</sup> Cw Sx BI	Fd <sup>1 32</sup> Lw <sup>1 32 203</sup>	4	1200 200	700 100	600 100	0.0	
					1					
	1	1065281	Cw Sx BI Cw <sup>1</sup> Sx <sup>1 13</sup>	BI <sup>1 13 208</sup>	2	300 300	125 150	125 150	1.0	All(0.6)
IDFww	7 abundant		CVV SX	BI 113 208	4	400	200	200	1.0	
IDFww	7 abundant horsetail		Cw 1 cv 113		-				0.0	
IDFww			Cw <sup>1</sup> Sx <sup>1 13</sup> Fd Pv	DI	1	400	200			
IDFww IDFxc (use			Fd Py	DI	1 2	400 600	200 300	200 250		
IDFxc (use classification for		1065284	Fd Py Fd Py	ы	2 3	600	300	250	2.0	Fd(0.4),Others(0.6)
IDFxc (use	horsetail	1065284	Fd Py	BI	2	600 800	300 400			Fd(0.4), Others(0.6)
<b>IDFxc</b> (use classification for IDFxh2 in LMH23)	horsetail	1065284	Fd Py Fd Py Fd <sup>27</sup> Py	Di	2	600	300	250 300	2.0	Fd(0.4),Others(0.6)
IDFxc (use classification for IDFxh2 in LMH23) IDFxc (use	horsetail 1		Fd Py Fd Py Fd <sup>27</sup> Py Fd <sup>27</sup> Py	DI	2 3 4	600 800 1000	300 400 500	250 300 400	2.0 2.0 2.0	
<b>IDFxc</b> (use classification for IDFxh2 in LMH23)	horsetail	1065284	Fd Py Fd Py Fd <sup>27</sup> Py Fd <sup>27</sup> Py Py Fd	DI	2 3 4	600 800 1000 200	300 400 500 100	250 300 400 100	2.0 2.0 2.0 0.0	Fd(0.4),Others(0.6) Fd(0.4),Others(0.6)

Barrier   1
Description   2
1996   120   100
Commonweight   Comm
March   Marc
Card   Sept
Part
SEPACE DE
Separation for   Part   Control
Depart   Company   Compa
Control professor   Cont
Section   1
Difference   Company   C
Description   Company
March   Marc
25   16   16   17   17   17   17   17   17
Effect   101   105223
EP-bit   161
Birker   101
100   100
Display
Disable   102
Dichet   102
105-hr    102
1921   1922   1962-296   1974   1972   1974   197
December   100
100   100
Direct   103
Direct   103
Display
The color of the
BP-M1
DP-M1
DF-M1
DF-Int   105.201
Print
BP-Init   106   106/291
DF-M1
DF-M1
Principle   Prin
IDF-hr    106
DF-Art   106
DF-hit   106   1062392
DF-hit   106   1062392
Pyrion
IDFahr
DFsht
DF-hh
February   February
IDFsh1
IDFsht
DFsht
Fed Sx 33
DFAh1
IDFxh1
DFkht   111.2   1065296
IDFxh1
Fide (w)   Fide (w)
IDFxh1
IDFxh1
Sx   Fe  1/2
IDFxh2
IDFxh2
IDFxh2
IDFxh2
Fd27 Py
IDFxh2
IDFxh2
IDFxh2
Py Feb   P
IDFxh2
IDFxh2
DFxh2   103   1065299
IDFxh2
Py Fed <sup>27</sup>
Py Fd <sup>27</sup>
Py Fd
TDFxh2
IDFxh2
Fy Fd27
IDFxh2
IDFxh2
IDFxh2
Fd
Fd
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IDFxh2
Fd
Fd
IDFxh2
Topic   Topi
TIDFxh2
Fd Sx13
Fd Sx13
Sx Fd Pl Cw   1   400   200   200   0.0
Sx Fd Pl Cw
IDFxh2 113 1065305
SX* Fd***2 PI****250 W***250 4 1000 500 400 1.0  Fd 1 600 300 250 0.0
Sx <sup>1</sup> Fd <sup>1,32</sup> Pl <sup>1,12,50</sup> Cw <sup>1,32,50</sup> 4 1000 500 400 1.0 Fd 1 600 300 250 0.0
Fd 1 600 300 250 0.0
IDFxm 01a 1065310 Fd 2 800 400 300 2.0 Fd(0.4)
IDFxm 01a 1065310 Fd <sup>27,28</sup> 3 1000 500 400 2.0 Fd(0.4)
$Fd^{27,28}$ 4 1200 700 600 2.0
Fd Pl 1 600 300 250 0.0
IDFxm 01b 1065311 Fd Pl 2 800 400 300 2.0 Fd(0.4),Others(0.8)
10FXM 01b 1065311 Fd <sup>27,28</sup> Pl 3 1000 500 400 2.0 Fd(0.4), Others(0.8)
Fd <sup>27,28</sup> Pl 4 1200 700 600 2.0

Power				Fd		1	400	200	200	0.0	
Part						2					
Effect	IDFxm	02	1065306	Fd <sup>27,28</sup>		3	800	400	300	1.0	Fd(0.4)
Property				Fd <sup>27,28</sup>		4	1000	500	400	1.0	
Mathematical   Math						1	400	200	200	0.0	
1	IDEvm	03	1065307							2.0	Pl(0.8) Ed(0.4)
Temporary	IDI AIII	03	1005507								11(0.0),1 4(0.4)
The column											
March   Marc											
Mathematical   Math	IDFxm	04	1065308								Fd(0.4)
Fig.   1985											
Tell									_	_	
Part											
Part	IDFxm	05	1065309								Fd(0.4)
Total											
March   Marc											
Primary   1											
Fig.	IDFxm	06	1065312	Fd <sup>32</sup>			1000			2.0	Fd(0.4)
Tright   10				Fd <sup>32</sup>		4	1200	700	600	2.0	
District   1900				Fd		1	600	300	250	0.0	
March   Marc	IDExm	07	1065313								Fd(0.4)
## 1065114   First   F	151 7	0,	1003313								. 4(6.1)
District   District   Flash									_		
Default   Defa											
Prince   P	IDFxm	08	1065314		Pl						Fd(0.4),Others(0.8)
District   Part		Ì	ĺ								
District		<del>                                     </del>			FI						
DECEMBER   COLUMN		Ì									
Process   Proc	IDFxm	09	1065315							1.0 1.0	PI(0.8),Sx(0.6)
Direct		Ì	ĺ								
Different   Diff											
Disay   01   1905220   Figer by   2   1000   500   20   20				Fd Py		2					make ii = ii = ii
Transp.   1	IDFxw	01	1065320								Fd(0.4) Py(0.8)
DF-NV		<u> </u>	<u></u>								
DP-NV											
Page	IDEvw	02	1065316								Ed(0.4), Pv(0.6)
## F6PY   1   20   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   20   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   20   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   30   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   30   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   2   40   30   30   30   30   20   20   F6(0.4) Py(0.5)   ## F69PY   3   100   30   30   30   20   20   20   F6(0.4) Py(0.5)   ## F69PY   4   30   30   30   30   20   20   20   F6(0.4) Py(0.5)   ## F69PY   4   4   4   4   4   4   4   4   4	IDFXW	02	1003310	-							Fu(0.4) Fy(0.0)
DP-NW											
Different   100-117											
	IDFxw	03	1065317	· · · · · · · · · · · · · · · · · · ·							Fd(0.4) Py(0.6)
Feb											, , , , , ,
Difference   Dif											
DP-W   O6											
Figure   F	IDFxw	04	1065318								Fd(0.4) Py(0.6)
Time				·							
DP-W   05				-					_	_	
Difference   Dif											
Fg2	IDFxw	05	1065319			2					Fd(0.4)
DF-NU   O6											
IDFxw											
DF-W   06						1					
Fd Sx	IDFxw	06	1065321								Fd(0.4) Sx(0.6)
DFxw				Fd Sx		4	1200	700	600	2.0	
MSdm1						1	400	200	200	0.0	
Ho Sh	IDExw	07	1065322								Ed(0.4), \$x(0.6)
MSdm1 101 1065326 Fd1432201 [Ly43220] S S B300 400 300 250 0.0 Fd (1.0), Lw Pl (1.4), Sx B1 (0.8) Fd (1.2) Lw Pl (1.4), Sx B1 (0.8) Fd (1.4) Lw Pl (1.4), Sx B1 (0.8) Fd (1.4) Lw Pl (1.4), Sx B1 (0.8) Fd (1.4) Lw Pl (1.4), Fd Pl	15.7.11	0,	1003322								1 4(6.1) 5.(6.6)
MSdm1 101 1065326						4	1000	500	400	1.0	
MSdm1 101 1065326				Sx Bl <sup>204,208</sup> Pl <sup>200</sup>		1	600	300	250	0.0	
Fg14322391_W1432203 Sx   Fg1432203 Sx   Fg1432203 Fg1600   3   1000   500   400   2.0											
Fg14322391_W1432203 Sx   Fg1432203 Sx   Fg1432203 Fg1600   3   1000   500   400   2.0	MSdm1	101	1065326	Fd14,32,203 Lw14,32,203 Sx Bl <sup>204,208</sup> Pl <sup>200</sup>		2	800	400	300	2.0	Fd (1.0), Lw Pl (1.4), Sx Bl (0.8)
MSdm1 102		Ì	ĺ		D1204 208 D1200					2.0	
MSdm1 102 1065323		Ì	ĺ								
MSdm1	<del></del>	1			DI-04,200 PIZUU						
MSdm1 102 1065329 Fd Lw Py.34.203 Pl 3 500 300 300 1.0 Fd Lw PJ (1.0), Fy (0.8)  Fd Lw Py.34.203 Pl 4 600 400 400 1.0  Fd Lw Py.34.203 Pl 4 600 300 2.0 0.0  Fd Lw Py.34.203 Pl 200 1 1 400 200 200 0.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 2 600 300 2.0  Fd Lw Py.34.203 Pl 200 8 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 2 800 400 300 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 22 Bl 208 Sx 28 3 1000 500 400 2.0  Pl Fd 22 Lw 4.32 2 2 800 400 300 2.0  Pl Lw (1.4), Sx Bl Fd (1.0)  Pl Lw (1.4), Sx Bl Fd (0.8)  Pl Fd 22 Lw 22 Bl 208 Fd 4.32 Lw 4.32 2 800 400 300 2.0  Pl Lw (1.4), Sx Bl Fd (0.8)  Pl Fd 22 Lw 22 Bl 208 Fd 4.32 Lw 4.32 2 800 400 300 2.0  Pl Lw (1.4), Sx Bl Fd (0.8)  Pl Fd 22 Lw 22 Bl 208 Fd 4.32 Lw 4.32 2 800 400 300 2.0  Pl Lw (1.4), Sx Bl Fd (0.8)  Pl Lw (1.4), Sx Bl Fd (0.8)  Pl Lw (1.4), Sx Bl Fd (0.8)		Ì	ĺ								
MSdm1 103	MSdm1	102	1065323		DI						Fd Lw Pl (1.0), Py(0.8)
MSdm1 103 1065324 Fd Lw Py.9.14.203 pt200											
MSdm1 103	<u> </u>				I <sup>2</sup> I						
MSdm1 103 1065324 Fd Lw Py3,14,203 Pj200 3 800 400 300 2.0 Pj Lw(1.4),Fd Py(0.8)  Fd Lw Py3,14,203 Pj200 4 1000 500 400 2.0  Fl Gd W Py3,14,203 Pj200 500 400 2.0  Fl Fd W Py3,14,203 Pj Fd W W W W W W W W W W W W W W W W W W											
MSdm1	MSdm1	103	1065324		pl <sup>200</sup>						Pl Lw(1.4),Fd Py(0.8)
MSdm1 104 1065325   PI Fd32 Lw32 Bl208 Sx28   1 600 300 2.0   PI Lw(1.4), Fd BI Sx(0.6)											
MSdm1 104 1065325	}				- 11						
MSdm1 104 1065325 PI Fd32 Lw32 Bl208 Sx28 3 1000 500 400 2.0 PI Lw(1.4),Fd Bl Sx(0.6)  PI Fd32 Lw32 Bl208 Sx28 4 1200 700 600 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 2 800 400 300 250 0.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 4 1200 700 600 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 1 600 300 250 0.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 2 2 800 400 300 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 2 2 800 400 300 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 2 2 800 400 300 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Lw14,32 3 1000 500 400 2.0  Pl201 Sx Bl201,208 Fd14,32 Pl201,208 Fd14,32											
MSdm1 110 1065327 Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 2 800 400 300 2.0 Pl Lw (1.4), Sx Bl Fd (1.0)  MSdm1 111.1 1065328 Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 3 1000 500 400 2.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> 1 600 300 250 0.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 3 1000 500 400 2.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> 1 600 300 250 0.0  MSdm1 111.1 1065328 Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 1 600 300 250 0.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 2 800 400 300 2.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 3 1000 500 400 2.0  Pl <sup>201</sup> Sx Bl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 3 1000 500 400 2.0  MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 1 600 300 250 0.0  MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 1 600 300 250 0.0  MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 1 600 300 250 0.0  Pl Lw (1.4), Sx Bl Fd (0.8)	MSdm1	104	1065325		Bl <sup>208</sup> Sx <sup>28</sup>						Pl Lw(1.4),Fd Bl Sx(0.6)
MSdm1 110 1065327     Pl <sup>201</sup> Sx Bl <sup>201,208</sup> Fd <sup>14,32</sup>		Ì	ĺ								
MSdm1 110 1065327     Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup>		<del>                                     </del>				7	1200	,00	500	2.0	
MSdm1 110 1065327		Ì	ĺ			1	600	300	250	0.0	
MSdm1 110 1065327											
P 201 Sx B 201 208   Fd 4,32 Lw 4,32   3   1000   500   400   2.0	MSdm1	110	1065327			2	800	400	300	2.0	Pl Lw (1.4), Sx Bl Fd (1.0)
MSdm1 111.1 1065328   Pl <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup>   1 600 300 250 0.0					Fd14,32 I w14,32	3	1000	500	400	2.0	
MSdm1 111.1 1065328		Ì	ĺ								
MSdm1 111.1 1065328		<del>                                     </del>				4	1200	700	600	2.0	
MSdm1 111.1 1065328		Ì	ĺ			1	600	300	250	0.0	
MSdm1 111.1 1065328				PI <sup>201</sup> Sy RI <sup>201</sup> 208 E <sup>4</sup> 1432							
MSdm1 111.2 1065329 Fd14.32 pt	MSdm1	111.1	1065328			2	800	400	300	2.0	Pl Lw (1.4), Sx Bl Fd (0.8)
MSdm1 111.2 Pi <sup>201</sup> Sx Bl <sup>201</sup> 208 Fd <sup>14,32</sup> Lw <sup>14,32</sup> 4 1200 700 600 2.0    (20	I	Ì	ĺ		Fd14,32 I w14.32						
MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 1 600 300 250 0.0 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 2 800 400 300 2.0 Pl Lw (1.4), Cw Sx Bl Fd (0.8)	1	Ì	ĺ								
MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bl <sup>208</sup> Fd <sup>14,32</sup> Pl 2 800 400 300 2.0 Pl Lw (1.4), Cw Sx Bl Fd (0.8)											
MSdm1 111.2 1065329 Cw <sup>32</sup> Lw <sup>32</sup> Sx Bj <sup>208</sup> Fd <sup>14,32</sup> Pj 3 1000 500 400 2.0 Pl Lw (1.4), Cw Sx Bl Fd (0.8)		Ì	ĺ								
CW <sup>22</sup> LW <sup>22</sup> SX BI <sup>220</sup> F(1 <sup>220</sup> F) 3 1000 500 400 2.0	MSdm1	111.2	1065329								Pl Lw (1.4), Cw Sx Bl Fd (0.8)
CW <sup>22</sup> LW <sup>22</sup> SX Di <sup>11</sup> FU <sup>11</sup> 4 1200 700 600 2.0											•
			l	Cw <sup>32</sup> Lw <sup>32</sup> Sx	DI Fal22 PI	4	1200	700	600	2.0	

			Bl <sup>201,208</sup> Sx Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl		1	600	300	250	0.0	
			BI <sup>201,208</sup> Sx Fd <sup>14,32</sup> Lw <sup>14,32</sup>							
MSdm1	112	1065330	Pl		2	800	400	300	2.0	Pl, Lw (1.4), Bl (1.0), Fd (1.0), Sx (0.8)
			BI <sup>201,208</sup> Sx BI <sup>201,208</sup> Sx	Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl	3	1000	500	400	2.0	
			Sx1 Bl1,201,208 Pl1	Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl	1	1200 400	700 200	200	0.0	
MC due 1	112	1065221	Sx <sup>1</sup> Bl <sup>1,201,208</sup> Pl <sup>1</sup>		2	600	300	250	1.0	DL (4.0), DL Cv (0.9)
MSdm1	113	1065331	Sx1 BI1,201,208	PI <sup>1</sup>	3	800	400	300	1.0	Pl (1.0), Bl Sx (0.8)
			Sx <sup>1</sup> BI <sup>1,201,208</sup> PI Sx Fd BI Lw	Pl1	1	1000 600	500 300	400 250	1.0 0.0	
MSdm 2	101	1065226	PI Sx Fd BI Lw		2	800	400	300	2.0	
MSdm2	101	1065336	PI Sx Fd <sup>9</sup> 14 32 BI <sup>201</sup> 208	Lw <sup>9</sup> 14 32 203	3	1000	500	400	2.0	
			PI Sx Fd <sup>9 14 32</sup> BI <sup>201 208</sup> PI Fd BI	Lw <sup>9 14 32 203</sup>	1	1200 300	700 150	600 150	0.0	Pl Lw(1.4), Others(0.8)
MSdm2	102	1065332	PI Fd BI		2	400	200	200	1.0	Pl(1.0),Others(0.6)
	102	1005552	Pl Fd <sup>14</sup> Pl Fd <sup>14</sup>	Py <sup>14 203</sup> BI <sup>13 204</sup> Py <sup>14 203</sup> BI <sup>13 204 208</sup>	3	500	300	300	1.0	. i(a), active square
			Fd Pl Bl Sx	., 5.	1	600 400	400 200	400 200	0.0	
			Fd Pl Bl Sx		2	600	300	250	2.0	
MSdm2	103	1065333	Pl Fd <sup>32</sup>	Lw <sup>32 203</sup> Py <sup>9 203</sup> BI <sup>10,13 204</sup> Sx <sup>10 13 204</sup>	3	800	400	300	2.0	Pl, Lw(1.0),Others(0.6)
			Pl Fd <sup>32</sup>	Lw <sup>32 203</sup> Py <sup>9 203</sup> BI <sup>10 13 204 208</sup> Sx <sup>10 13 204</sup>	4	1000	500	400	2.0	
			Fd Pl Sx Bl Lw		1	600	300	250	0.0	
MSdm2	104	1065334	Fd Pl Sx Bl Lw	40.42.20 44.22.202	2	800	400	300	2.0	Pl Lw(1.4), Others(0.8)
			Fd <sup>9 14 32</sup> Pl Sx <sup>10 13 28</sup> Fd <sup>9 14 32</sup> Pl Sx <sup>10 13 28</sup>	BI <sup>10 13 28</sup> Lw <sup>14 32 203</sup> BI <sup>10 13 28 208</sup> Lw <sup>14 32 203</sup>	3	1000	700	400 600	2.0	, , , ,
			PI Sx BI Fd Lw	DI LW	1	600	300	250	0.0	
MSdm2	105	1065335	Pl Sx Bl Fd Lw	01422 04422202	2	800	400	300	2.0	Pl Lw(1.4), Others(0.8)
			Pl, Sx, Bl <sup>201</sup> 208 Pl, Sx, Bl <sup>201</sup> 208	Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	3	1000 1200	500 700	400 600	2.0	
			PI, SX, BI 201200 PI SX BI LW Fd	Tu LW	1	600	300	250	0.0	
MSdm2	110	1065337	PI Sx BI Lw Fd		2	800	400	300	2.0	Pl Lw(1.4), Others(0.8)
		1003337	PI Sx BI <sup>201 208</sup>	Lw 91432203 Fd 91432	3	1000	500	400	2.0	zww, others(ole)
			PI Sx BI <sup>201 208</sup> PI Sx BI Fd Lw	Lw <sup>91432 203</sup> Fd <sup>91432</sup>	1	1200 600	700 300	600 250	0.0	
MSdm2	111	1065338	PI Sx BI Fd Lw		2	800	400	300	2.0	Pl(1.4), Others(0.8)
WISGITE		1005550	PI Sx BI <sup>201 208</sup>	Fd <sup>14,32</sup> Lw <sup>14,32,203</sup>	3	1000	500	400	2.0	11(1.4), Genera(6.5)
			PI Sx BI <sup>201 208</sup> Sx BI PI Fd Lw	Fd <sup>14,32</sup> Lw <sup>1432203</sup>	1	1200 600	700 300	600 250	0.0	
MSdm2	112	1065339	Sx Bl Pl Fd Lw		2	800	400	300	2.0	Pl Lw(1.4), Others(0.8)
WISCHTZ	112	1003333	Sx BI <sup>201 208</sup>	Pl Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	3	1000	500	400	2.0	TI EW(1.4), Others(0.0)
			Sx BI <sup>201 208</sup> PI Sx BI	Pl Fd <sup>9 14 32</sup> Lw <sup>9 14 32 203</sup>	1	1200 400	700 200	600 200	0.0	
MC don 2	442	1065340	PI Sx BI		2	600	300	250	1.0	DIM O) Otherwice ()
MSdm2	113	1065340	PI¹ Sx¹	BI <sup>1 208R</sup>	3	800	400	300	1.0	Pl(1.0), Others(0.6)
			Pl Sx 1 Pl Sx Fd Bl Lw	BI <sup>1 208R</sup>	1	1000 600	500 300	400 250	0.0	
MSdm3 (use	1	1065344	PI Sx Fd BI Lw		2	800	400	300	2.0	DL Lw(1.4) Others(0.9)
classification for MSdm2 in LMH23)	'	1003344	Pl Sx Fd <sup>14 32</sup> Bl <sup>201 208</sup>	Lw <sup>14 32 203</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
			PI Sx Fd <sup>14 32</sup> BI <sup>201 208</sup> PI Fd Py	Lw <sup>14 32 203</sup>	1	1200 400	700 200	600 200	0.0	
MSdm3 (use	3 shallow soils	1065341	Pl Fd Py		2	600	300	250	1.0	DI(1.0) Others(0.5)
classification for MSdm2 in LMH23)		1003341	Pl Fd <sup>14</sup>	Py <sup>14 203</sup>	3	800	400	300	1.0	Pl(1.0), Others(0.6)
			PI Fd <sup>14</sup> Fd PI BI Sx Py Lw	Py <sup>14 203</sup>	1	1000 400	200	400 200	0.0	
			FU FI BI 3X FY LW			400	300	250	2.0	
			Fd Pl Bl Sx Py Lw		2	600	500			
MSdm3 (use classification for	3 deep soils	1065342	Fd Pl Bl Sx Py Lw Fd <sup>14</sup> Pl	BJ <sup>10</sup> <sup>13</sup> <sup>204</sup> Sx <sup>10</sup> <sup>13</sup> <sup>204</sup> Lw <sup>32</sup> <sup>203</sup> Py <sup>14</sup> <sup>203</sup>	3	600 800	400	300	2.0	Pl Lw(1.0),Others(0.6)
classification for	3 deep soils	1065342						300 400	2.0	Pl Lw(1.0),Others(0.6)
classification for MSdm2 in LMH23)	3 deep soils	1065342	Fd <sup>14</sup> Pl Fd <sup>14</sup> Pl Fd Pl Sx Bl Lw	Lw <sup>32</sup> 203 Py <sup>14</sup> 203 BJ <sup>10</sup> 13 204 208 Sx <sup>10</sup> 13 204	3 4 1	800 1000 600	400 500 300	400 250	2.0	Pl Lw(1.0),Others(0.6)
classification for	3 deep soils	1065342	Fd <sup>14</sup> Pl Fd <sup>14</sup> Pl Fd Pl Sx Bl Lw Fd Pl Sx Bl Lw	LW <sup>32</sup> 203 Py <sup>14</sup> 203  BI <sup>10</sup> 13 204 208 Sx <sup>10</sup> 13 204  LW <sup>32</sup> 203 Py <sup>14</sup> 203	3 4 1 2	800 1000 600 800	400 500 300 400	400 250 300	2.0 0.0 2.0	Pl Lw(1.0),Others(0.6) Pl Lw(1.4), Others(0.8)
classification for MSdm2 in LMH23) MSdm3 (use classification for			Fd <sup>14</sup> Pl Fd <sup>14</sup> Pl Fd Pl Sx Bl Lw	Lw <sup>32</sup> 203 py <sup>14</sup> 203 BJ <sup>10</sup> 13204208 Sx <sup>10</sup> 13204 Lw <sup>32</sup> 203 py <sup>14</sup> 203 BJ <sup>13</sup> Lw <sup>14</sup> 32203	3 4 1	800 1000 600	400 500 300	400 250	2.0	
dassification for MSdm2 in LMH23) MSdm3 (use dassification for MSdm2 in LMH23)			Fd <sup>14</sup> Pl Fd <sup>14</sup> Pl Fd Pl Sx Bl Lw Fd Pl Sx Bl Lw Fd <sup>14</sup> <sup>32</sup> Pl Sx <sup>13</sup>	LW <sup>32</sup> 203 Py <sup>14</sup> 203  BI <sup>10</sup> 13 204 208 Sx <sup>10</sup> 13 204  LW <sup>32</sup> 203 Py <sup>14</sup> 203	3 4 1 2 3	800 1000 600 800 1000	400 500 300 400 500	400 250 300 400	2.0 0.0 2.0 2.0	
classification for MSdm2 in LMH23) MSdm3 (use classification for			Fd <sup>14</sup> Pl  Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw	Lw32203 py14203  B 1013204208 Sx1013204  Lw32203 py14203  B 13 Lw1432203  B 13 Lw1432203	3 4 1 2 3 4 1 2 2	800 1000 600 800 1000 1200 600 800	400 500 300 400 500 700 300 400	400 250 300 400 600 250 300	2.0 0.0 2.0 2.0 2.0 0.0 2.0	
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use classification for	4	1065343	Fd <sup>14</sup> Pl  Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Pl Sx Bl Fd Lw	Lw32203 py14203  B 1013204208 Sx1013204 Lw32203 py14203  B 13 Lw1432203  B 13 Lw1432203	3 4 1 2 3 4	800 1000 600 800 1000 1200 600	400 500 300 400 500 700 300	400 250 300 400 600 250	2.0 0.0 2.0 2.0 2.0 0.0	Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	4	1065343	Fd <sup>14</sup> Pl  Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Fd <sup>14</sup> 32 Pl Sx <sup>13</sup> Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw	Lw32203 py14203  B 1013204208 Sx1013204  Lw32203 py14203  B 13 Lw1432203  B 13 Lw1432203	3 4 1 2 3 4 1 1 2 3 3 4 1 2 3	800 1000 600 800 1000 1200 600 800 1000	400 500 300 400 500 700 300 400 500	400 250 300 400 600 250 300 400	2.0 0.0 2.0 2.0 2.0 0.0 2.0 2.0	Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use classification for	4	1065343	Fd <sup>14</sup> Pl  Fd Pl SX Bl LW  Fd Pl SX Bl LW  Fd Pl SX Bl LW  Fd <sup>1432</sup> Pl SX <sup>13</sup> Fl SX Bl Fd LW  Pl SX Bl Fd LW  Pl SX Bl Fd LW  Pl SX Bl Fd LW  SX Bl Pl Fd LW CW  SX Bl Pl Fd LW CW	BJ10 13 204 208 Sx 10 13 204 Lw32 203 Py14 203 BJ13 Lw14 32 203 BJ13 Lw14 32 203 BJ13 Lw14 32 203 208 Fd14.32 Lw14 32 203 Fd14.32 Lw14 32 203	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 2	800 1000 600 800 1000 1200 600 800 1200 600 800	400 500 300 400 500 700 300 400 500 700 300 400	400 250 300 400 600 250 300 400 600 250 300	2.0 0.0 2.0 2.0 2.0 0.0 2.0 2.0	Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use	4	1065343	Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14 32</sup> Pl Sx <sup>13</sup> Fl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl <sup>201</sup> 208  Pl Sx Bl Pl Fd Lw Cw  Sx Bl Pl Fd Lw Cw  Sx Bl Pl Fd Lw Cw	EW <sup>32</sup> 203 Py <sup>14</sup> 203  BJ <sup>10</sup> 13204 208 Sx <sup>10</sup> 13204  LW <sup>32</sup> 203 Py <sup>14</sup> 203  BJ <sup>13</sup> LW <sup>14</sup> 32203  BJ <sup>13</sup> LW <sup>14</sup> 32203  Fd <sup>14</sup> ,32 LW <sup>14</sup> 32203  Fd <sup>14</sup> ,32 LW <sup>14</sup> 32203	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	800 1000 600 800 1000 1200 600 800 1000 1200 600	400 500 300 400 500 700 300 400 500 700 300 400 500 700	400 250 300 400 600 250 300 400 600 250 300 400	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0	Pl Lw(1.4), Others(0.8) Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm3 (use classification for MSdm2 in LMH23)	4	1065343	Fd <sup>14</sup> Pl  Fd Pl SX Bl LW  Fd Pl SX Bl LW  Fd Pl SX Bl LW  Fd <sup>1432</sup> Pl SX <sup>13</sup> Fl SX Bl Fd LW  Pl SX Bl Fd LW  Pl SX Bl Fd LW  Pl SX Bl Fd LW  SX Bl Pl Fd LW CW  SX Bl Pl Fd LW CW	BJ10 13 204 208 Sx 10 13 204 Lw32 203 Py14 203 BJ13 Lw14 32 203 BJ13 Lw14 32 203 BJ13 Lw14 32 203 208 Fd14.32 Lw14 32 203 Fd14.32 Lw14 32 203	3 4 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3	800 1000 600 800 1000 1200 600 800 1000 1200 600 800 1000	400 500 300 400 500 700 300 400 500 700 300 400	400 250 300 400 600 250 300 400 600 250 300	2.0 0.0 2.0 2.0 2.0 0.0 2.0 2.0	Pl Lw(1.4), Others(0.8) Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)  MSdm3 (use dassification for for MSdm3 (use dassification for for for MSdm3 (use dassification for for MSdm2 in LMH23)	4	1065343	Fd <sup>14</sup> Pl  Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14</sup> <sup>32</sup> Pl Sx <sup>13</sup> Fd <sup>14</sup> <sup>32</sup> Pl Sx <sup>13</sup> Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl <sup>201</sup> <sup>208</sup> Sx Bl Pl Fd Lw Cw  Fl Sx Bl Pl Fd Lw Cw	EW32203 Py14203  BJ1013204208 Sx1013204	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3	800 1000 600 800 1000 1200 600 800 1000 1200 600 800 1000 1200 400 600	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300	400 250 300 400 600 250 300 400 600 250 300 400 600 250 300 400 250 300 400 250 300 400 250 300 400 600 250 300 400 600 250 300 400 600 600 600 600 600 600 6	2.0 0.0 2.0 2.0 0.0 2.0 2.0 0.0 2.0 2.0	Pl Lw(1.4), Others(0.8) Pl Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	5	1065343 1065345 1065346	Fd <sup>14</sup> Pl  Fd <sup>14</sup> Pl  Fd Pl Sx Bl Lw  Fd Pl Sx Bl Lw  Fd <sup>14 32</sup> Pl Sx <sup>13</sup> Fd <sup>14 32</sup> Pl Sx <sup>13</sup> Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl Fd Lw  Pl Sx Bl <sup>201</sup> <sup>208</sup> Sx Bl Pl Fd Lw Cw  Sx Bl Pl Fd Lw Cw  Sx Bl <sup>201</sup> <sup>208</sup> Pl Sx Bl  Sx Bl  Pl Sx Bl  Pl Sx Bl  Sx Bl	Lw32203 py14203  Bl1013204208 Sx1013204 Lw32203 py14203  Bl13 Lw1432203  Bl13 Lw1432203  Fd14,32 Lw1432203  Fd14,32 Lw1432203  Pl200 Fd1432 Lw1432203 Cw32  Pl200 Fd1432 Lw1432203 Cw32	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3	800  1000  600  800  1000  1200  600  800  1000  1200  600  800  1000  1200  400  600  800	400 500 300 400 500 700 300 400 500 700 300 400 500 700 300 400 500 700 300 400 500 400 500 600 700 300 400 500 600 600 600 600 600 600 6	400 250 300 400 600 250 300 400 600 250 300 400 600 250 300 400 600 250 300 300 400 300 400 300 400 40	2.0 0.0 2.0 2.0 0.0 2.0 2.0 0.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	5	1065343 1065345 1065346	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW PI FD LW CW SX BI FD LW PI FD LW CW	EW32203 Py14203  BJ1013204208 Sx1013204	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1	800  1000  600  800  1000  1200  600  800  1000  1200  400  600  800  1000  1000  600	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 500 300	400 250 300 400 600 250 300 400 600 250 300 400 600 250 300 400 600 250 400 600 250 400 600 250 400 400 600 600 600 600 600 60	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 0.0 2.0 0.0 1.0 1.0 0.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	5	1065343 1065345 1065346	Fd14 PI  Fd14 PI  Fd PI SX BI LW  Fd PI SX BI LW  Fd1432 PI SX13  Fd1432 PI SX13  PI SX BI Fd LW  CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  FI SX BI  SX1 BI L201,208R  PI FD SX BI LW  PI FD SX BI LW	EW32203 Py14203  BJ1013204208 Sx1013204	3 4 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3 4 1 2 2 3 4 1 2 2	800  1000  600  800  1000  1200  600  800  1000  1200  400  600  800  1000  600  800  1000  800  8	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 500 400 500 400	400 250 300 400 600 250 300 400 600 250 300 400 600 200 200 250 300 400 600 300 600 600 600 600 600 6	2.0 0.0 2.0 2.0 2.0 2.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	5 6	1065343 1065345 1065346	Fd14 PI  Fd14 PI  Fd PI SX BI LW  Fd PI SX BI LW  Fd14 32 PI SX 13  Fd14 32 PI SX 13  PI SX BI Fd LW  CW  SX BI PI Fd LW CW  SX BI PI Fd LW  FI SX BI  PI Fd SX BI LW  PI Fd SX BI LW  PI Fd SX BI LW  PI Fd 91 43 22 SX 10,13	EW32203 Py14203  BJ1013204208 Sx1013204	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 1 2 3 4 1 1 1 2 1 1 1 2 1 1 1 1 2 1 1 1 1 1 1	800  1000  600  800  1000  1200  600  800  1000  1200  400  600  800  1000  1000  600	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 500 400 500	400 250 300 400 600 250 300 400 600 250 300 400 600 200 250 300 400 600 250 300 400 600 600 600 250 300 600 600 600 600 600 600 60	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 0.0 2.0 0.0 1.0 1.0 0.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)	5 6	1065343 1065345 1065346	Fd14 PI  Fd14 PI  Fd PI SX BI LW  Fd PI SX BI LW  Fd1432 PI SX13  Fd1432 PI SX13  PI SX BI Fd LW  CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI Fd LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  SX BI PI FD LW CW  FI SX BI  SX1 BI L201,208R  PI FD SX BI LW  PI FD SX BI LW	EW32203 Py14203  BJ1013204208 Sx1013204	3 4 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800  1000  600  800  1200  600  800  1200  600  800  1200  400  600  800  1000  600  800  1000  1000	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 500 400 500 400	400 250 300 400 600 250 300 400 600 250 300 400 600 200 200 250 300 400 600 300 600 600 600 600 600 6	2.0 0.0 2.0 2.0 2.0 2.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)	5 6	1065343 1065345 1065346	Fd14 PI  Fd14 PI  Fd PI Sx BI LW Fd PI Sx BI LW Fd1432 PI Sx13 PI Sx BI Fd LW CW Sx BI PI Fd LW CW FI SX BI PI Fd SX BI LW PI Fd SX BI LW PI Fd SX BI LW PI Fd PI HA SZ SX 10,13 PI Fd PI LW PI Fd PI LW PI Fd PI LW PI Fd PI LW	Lw32203 py14203  Bl1013204208 Sx1013204 Lw32203 py14203  Bl13 Lw1432203  Bl13 Lw1432203  Fd14,32 Lw1432203  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Bl10 13208 Lw9 1432203  Bl10 13208 Lw9 1432203	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 2 3 4 1 1 2 2 3 4 1 2 2 3 4 1 2 2 3 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800 1000 600 800 1200 600 800 1200 600 800 1000 1200 600 800 1000 1000 600 800 1000 1200 400 600 800 1000	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 700 300	400 250 300 400 600 250 300 400 600 250 400 600 250 300 400 250 300 400 250 300 400 250 250 250 250	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.6)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	4 5 6 7	1065345 1065346 1065347	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW CW SX BI PI Fd LW CW FI SX BI PI Fd SX BI LW PI Fd SX BI LW PI Fd PI HA SX BI LW PI Fd PI LW PI Fd PI LW PI Fd PI LW PI Fd PI LW	Lw32203 py14203  BJ1013204208 Sx1013204 Lw32203 py14203  BJ13 Lw1432203  BJ13 Lw1432203  Fd14,32 Lw1432203  Fd14,32 Lw1432203  PJ200 Fd1432 Lw1432203 Cw32  PJ200 Fd1432 Lw1432203 Cw32  BJ1013208 Lw91432203  BJ1013208 Lw91432203	3 4 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 3 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800  1000  600  800  1000  1200  600  800  1200  600  800  1000  1200  600  800  1000  1200  600  800  1000  600  800  1000  1200  600  800  1000  800  1000  800  800	400 500 300 400 500 700 300 400 500 700 300 400 500 700 300 400 500 300 400 500 300 400 500 300 400 500 300 400	400  250 300 400 600 250 300 400 600 250 300 400 250 300 400 250 300 400 250 300 250 300 250 300 300 300 300 300 300 300 300 300 3	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	4 5 6 7	1065345 1065346 1065347	Fd14 PI  Fd14 PI  Fd PI Sx BI LW Fd PI Sx BI LW Fd1432 PI Sx13 PI Sx BI Fd LW CW Sx BI PI Fd LW CW FI SX BI PI Fd SX BI LW PI Fd SX BI LW PI Fd SX BI LW PI Fd PI HA SZ SX 10,13 PI Fd PI LW PI Fd PI LW PI Fd PI LW PI Fd PI LW	Lw32203 py14203  Bl1013204208 Sx1013204 Lw32203 py14203  Bl13 Lw1432203  Bl13 Lw1432203  Fd14,32 Lw1432203  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Pl200 Fd14,32 Lw1432203 Cw32  Bl10 13208 Lw9 1432203  Bl10 13208 Lw9 1432203	3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 2 3 4 1 1 2 2 3 4 1 2 2 3 4 1 2 2 3 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 2 3 4 4 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800 1000 600 800 1200 600 800 1200 600 800 1000 1200 600 800 1000 1000 600 800 1000 1200 400 600 800 1000	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 700 300	400 250 300 400 600 250 300 400 600 250 400 600 250 300 400 250 300 400 250 300 400 250 250 250 250	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.6)
dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)	4 5 6 7	1065345 1065346 1065347	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW CW SX BI PI FD LW PI SX BI PI FD SX BI LW PI	Lw32203 py14203  BJ1013204208 Sx1013204 Lw32203 py14203  BJ13 Lw1432203  BJ13 Lw1432203  Fd14.32 Lw1432203  Fd14.32 Lw1432203  PJ200 Fd1432 Lw1432203 Cw32  pj1200 Fd1432 Lw1432203 Cw32  pj1200  pj1200  BJ1013208 Lw91432203  BJ1013208 Lw91432203  Py1432203 Lw91432203  Py1432203 Lw91432203	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 2 4 1 2 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	800  1000  600  800  1200  600  800  1200  600  800  1200  400  600  800  1200  400  600  800  1000  1200  400  600  800  1000  600  600  800  1000  600  6	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 700 200 300 400 500 700 200 300	400  250 300 400 600 250 300 400 600 250 300 400 600 200 250 300 400 200 250 300 400 200 250 300 400 250	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 0.0 2.0 2	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI (1.0), Others(0.6)  PI Lw(1.4), Others(0.6)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)	4 5 6 7 101a 101b	1065345 1065346 1065347 1065353	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW CW SX BI PI Fd LW CW FI SX BI PI Fd SX BI LW PI Fd SX BI LW PI Fd PI LW	LW32203 Py14203  BJ1013204208 Sx1013204 LW32203 Py14203  BJ13 LW1432203  BJ13 LW1432203  Fd14.32 LW1432203  Fd14.32 LW1432203  PJ200 Fd1432 LW1432203 CW32  PJ200 Fd1432 LW1432203 CW32  PJ1200  PJ1200  BJ1013208 LW91432203  BJ1013208 LW91432203  Py1432203 LW91432203  Py1432203 LW91432203  Py1432203 LW91432203	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 2 3 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800 1000 600 800 1200 600 800 1200 600 800 1000 1200 600 800 1000 600 800 1000 1200 400 600 800 1000 600 800 1000 800 1000 800 1000 800 800 1000 800 8	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 500 700 200 300 400 500 500 500 700 200 300 400	400  250 300 400 600 250 300 400 600 250 300 400 600 200 2550 300 400 250 300 400 200 250 300 400 250 300 400 250 300 400	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 0.0 2.0 2	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.6)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)  MSdm3 (use classification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)	4 5 6 7 101a 101b	1065345 1065346 1065347 1065353	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW CW SX BI PI FD LW PI SX BI PI FD SX BI LW PI	Lw32203 py14203  BJ1013204208 Sx1013204 Lw32203 py14203  BJ13 Lw1432203  BJ13 Lw1432203  Fd14.32 Lw1432203  Fd14.32 Lw1432203  PJ200 Fd1432 Lw1432203 Cw32  pj1200 Fd1432 Lw1432203 Cw32  pj1200  pj1200  BJ1013208 Lw91432203  BJ1013208 Lw91432203  Py1432203 Lw91432203  Py1432203 Lw91432203	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 2 4 1 2 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	800  1000  600  800  1200  600  800  1200  600  800  1200  400  600  800  1200  400  600  800  1000  1200  400  600  800  1000  600  600  800  1000  600  6	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 700 200 300 400 500 700 200 300	400  250 300 400 600 250 300 400 600 250 300 400 600 200 250 300 400 200 250 300 400 200 250 300 400 250	2.0 0.0 2.0 2.0 0.0 2.0 2.0 2.0 2.0 0.0 2.0 2	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.6)  PI Lw(1.4), Others(0.6)
dassification for MSdm2 in LMH23)  MSdm3 (use dassification for MSdm2 in LMH23)	4 5 6 7 101a 101b	1065345 1065346 1065347 1065353	Fd14 PI  Fd14 PI  Fd PI SX BI LW Fd PI SX BI LW Fd1432 PI SX13 Fd1432 PI SX13 PI SX BI Fd LW SX BI PI Fd LW CW SX BI PI Fd LW CW SX BI PI Fd LW SX BI PI Fd LW PI SX BI PI Fd SX BI LW PI Fd SX BI LW PI Fd SX BI LW PI Fd PI LW PI	LW32203 Py14203  BJ1013204208 Sx1013204 LW32203 Py14203  BJ13 LW1432203  BJ13 LW1432203  Fd14.32 LW1432203  Fd14.32 LW1432203  PJ200 Fd1432 LW1432203 CW32  PJ200 Fd1432 LW1432203 CW32  PJ1200  PJ1200  BJ1013208 LW91432203  BJ1013208 LW91432203  Py1432203 LW91432203  Py1432203 LW91432203  Py1432203 LW91432203	3 4 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 1 2 3 4 1 2 3 4 1 2 3 4 4 1 2 3 4 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4	800  1000  600  800  1200  600  800  1200  600  800  1200  400  600  800  1000  1200  400  600  800  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000	400 500 300 400 500 700 300 400 500 700 300 400 500 700 200 300 400 500 700 200 300 400 500 700 200 300 400 500 500 500 500	400 250 300 400 600 250 300 400 600 250 300 400 250 300 400 250 300 400 250 300 400 250 300 400 250 300 400 250 300 400 250 300 400 250 300 400 400 400 400	2.0  0.0  2.0  2.0  2.0  2.0  2.0  2.0	PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.8)  PI Lw(1.4), Others(0.6)  PI Lw(1.4), Others(0.6)

			PI Sx Fd BI Lw		1	600	300	250	0.0	
			PI Sx Fd BI Lw		2	800	400	300	2.0	
MSxk1	104	1065351	Pl	Sx <sup>13</sup> Fd <sup>14 32</sup> BI <sup>13 208</sup> Lw <sup>1432 20</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
			Pl	Sx <sup>13</sup> Fd <sup>14 32</sup> BI <sup>13 208</sup> Lw <sup>1432 20</sup>	4	1200	700	600	2.0	
			PI Sx Fd BI Lw		1	600	300	250	0.0	
MCvld	105	1065353	PI Sx Fd BI Lw		2	800	400	300	2.0	PLL w/4.4) Othorro(0.8)
MSxk1	105	1065352	PI Sx <sup>10 13</sup>	BI <sup>10 13 208</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 20</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
			PI Sx <sup>1013</sup>	BI <sup>10 13 208</sup> Fd <sup>9 14 32</sup> Lw <sup>9 14 32 20</sup>	4	1200	700	600	2.0	
			PI Sx BI		1	600	300	250	0.0	
MSxk1	110	1065354	PI Sx BI		2	800	400	300	2.0	Pl (1.4), Others(0.8)
IVIDAKT	110	1003334	PI, Sx	BI <sup>10 13 208</sup>	3	1000	500	400	2.0	11 (1.4), Others(0.8)
			Pl, Sx	BI <sup>10 13 208</sup>	4	1200	700	600	2.0	
			PI Sx BI		1	600	300	250	0.0	
MSxk1	111	1065355	PI Sx BI		2	800	400	300	2.0	Pl (1.4), Others(0.6)
WOART		1003333	PI, Sx	BI <sup>208</sup>	3	1000	500	400	2.0	11 (1.4), Others(0.0)
			Pl, Sx	BI <sup>208</sup>	4	1200	700	600	2.0	
			PI Sx BI		1	400	200	200	0.0	
MSxk1	112	1065356	PI Sx BI		2	600	300	250	1.0	DI (1.0) Others(0.6)
IVISAKT	112	1003330	PI <sup>1</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	3	800	400	300	1.0	Pl (1.0),Others(0.6)
			Pl <sup>1</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	4	1000	500	400	1.0	
		ļ	PI Sx BI		1	400	200	200	0.0	
MSxk1	113	1065357	PI Sx BI		2	600	300	250	1.0	Pl (1.0),Others(0.6)
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pl¹ Sx¹	BI <sup>1 208</sup>	3	800	400	300	1.0	(,
			Pl <sup>1</sup> Sx <sup>1</sup>	BI <sup>1 208</sup>	4	1000	500	400	1.0	
		ļ	Pl Fd Sx Bl Lw		1	600	300	250	0.0	
MSxk2	101	1065363	Pl Fd Sx Bl Lw		2	800	400	300	2.0	Pl Lw(1.4), Others(0.8)
]		]	PI Fd <sup>9,14,32</sup> Sx <sup>10,13</sup>	BI10,13 Lw 914,32203	3	1000	500	400	2.0	
		<u> </u>	Pl Fd <sup>9,14,32</sup> Sx <sup>10,13</sup>	BI <sup>10,13</sup> Lw <sup>9 14 32 203 208</sup>	4	1200	700	600	2.0	
]		]	PI Fd BI		1	400	200	200	0.0	
MSxk2	102	1065358	PI Fd BI	DJ 13 28 208 204	2	800	300	250	1.0	Pl(1.0),Others(0.6)
]		1	PI Fd <sup>9,14 32</sup>	BI <sup>13 28 208 204</sup>	3	800	400	300	1.0	
		<del>                                     </del>	PI Fd <sup>9,1432</sup>	BI <sup>13 28 208 204</sup>	4	1000	500	400	1.0	<u> </u>
]		]	Pl Fd Sx		1	400	200	200	0.0	
MSxk2	103	1065359	Pl Fd Sx Pl Fd <sup>9,14 32</sup>	Sx <sup>10,13,28</sup>	2	600	300	250	2.0	Pl(1.0),Others(0.6)
]		]		l.	3	800	400	300	2.0	
		<del>                                     </del>	Pl Fd <sup>9,14 32</sup>	Sx <sup>10,13,28</sup>	4	1000	500	400	2.0	<u> </u>
			Pl Fd Py Lw		1	400	200	200	0.0	
MSxk2	104	1065360	Pl Fd Py Lw Pl <sup>201</sup> Fd <sup>32</sup>	Py <sup>14 203</sup> Lw <sup>9 14 32 203</sup>	2	600	300	250	2.0	Pl Lw(1.0),Others(0.6)
				Py <sup>14 203</sup> Lw <sup>9 14 32 203</sup>	3	800	400	300	2.0	
		<u> </u>	Pl <sup>201</sup> Fd <sup>32</sup>	ry LW	4	1000	500	400	2.0	
			Pl Sx Fd Lw Pl Sx Fd Lw		2	600 800	300 400	250 300	0.0	
MSxk2	105	1065361	PI SX FU LW	Sx <sup>10,13</sup> Fd <sup>9,14,32</sup> Lw <sup>9 14 32 203</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
			PI C. DI Editor	Sx <sup>10,13</sup> Fd <sup>9,14,32</sup> Lw <sup>9 14 32 203</sup>	4	1200	700	600	2.0	
			PI Sx BI Fd Lw PI Sx BI Fd Lw		2	600 800	300	250 300	0.0	
		ļ	FI 3X BI FU LW	Di 10 13 208 E J9 14 32 i 9 14 32	2	800	400	300	2.0	
MSxk2	106	1065362	PI Sx <sup>10,13</sup>	BI <sup>10,13 208</sup> Fd <sup>9,14,32</sup> Lw <sup>9 14 32</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
		ļ								
			PI Sx <sup>10,13</sup>	BI <sup>10,13 208</sup> Fd <sup>9,14,32</sup> Lw <sup>9 14 32</sup>	4	1200	700	600	2.0	
			DI C. DI	203						
			PI Sx BI		1	600	300	250	0.0	
MSxk2	110	1065364	PI Sx BI	BI <sup>10,13 208</sup>	2	800	400	300	2.0	Pl(1.4), Others(0.8)
		ļ	PI Sx		3	1000	500	400	2.0	
			Pl Sx	BI <sup>10,13 208</sup>	4	1200	700	600	2.0	
		ļ	PI Sx BI		1	600	300	250	0.0	
MSxk2	111	1065365	Pl Sx Bl Pl Sx	BI <sup>208</sup>	2	800 1000	400 500	300 400	2.0	Pl(1.4), Others(0.8)
		ļ								
			PI Sx PI Sx BI	BI <sup>208</sup>	4	1200 400	700 200	600 200	0.0	
		ļ	PI Sx BI							
MSxk2	112	1065366	Sx <sup>1</sup>	BI <sup>1 208</sup> PI <sup>1 200</sup>	3	600 800	300 400	250 300	1.0	Pl(1.0),Others(0.6)
]		1	Sx <sup>1</sup>	BI <sup>1 208</sup> PI <sup>1 200</sup>	4	1000	500	400	1.0	
<u> </u>		<b> </b>		DI PI	1	600	300	250	0.0	
MSxk3 (use		]	PI Fd Sx BI Lw PI Fd Sx BI Lw		2	800	400	300	2.0	
classification for	1	1065369	PI Fd 5X BI LW PI Fd <sup>9,14,32</sup> Sx <sup>10,13</sup> <sup>28</sup> <sup>204</sup>	BI <sup>1 13 204</sup> Lw <sup>9 14 32 203</sup>	3	1000	500	400	2.0	Pl Lw(1.4), Others(0.8)
MSxk)			Pl Fd <sup>9,14,32</sup> Sx <sup>10,13</sup> 28 204	BI <sup>10 13 204 208</sup> Lw <sup>9 14 32 203</sup>	4	1200	700	600	2.0	
		<del>                                     </del>		SI LW	1	400	200	200	0.0	
MSxk3 (use		l '	PI Fd BI PI Fd BI		2	600	300	250	1.0	
classification for	2	1065367	Pl Fd <sup>9,14</sup>	BI <sup>10 13 208</sup>	3	800	400	300	1.0	Pl(1.0),Others(0.6)
MSxk)		1	Pl Fd <sup>9,14</sup>	BI <sup>10 13 204 208</sup>	4	1000	500	400	1.0	
			Pl Fd Bl Sx Py Lw		1	400	200	200	0.0	
[		]	PI Fd BI Sx Py Lw		2	600	300	250	2.0	
MSxk3 (use				BJ10 13 28 204 Sx10 13 28 204						B1
classification for	5	1065368	Pl Fd <sup>9,14 32</sup>	BI <sup>10</sup> 13 28 204 Sx <sup>10</sup> 13 28 204 Py <sup>9</sup> 14 32 203 Lw <sup>9</sup> 14 32 203	3	800	400	300	2.0	Pl Lw(1.0), Others(0.6)
MSxk)				BI10 13 28 204 208 Sx 10 13 28 204						
]		1	Pl Fd <sup>9,1432</sup>	Py <sup>91432203</sup> Lw <sup>91432203</sup>	4	1000	500	400	2.0	
			Pl Sx Bl Fd		1	600	300	250	0.0	
MSxk3 (use		40555-5	PI Sx BI Fd		2	800	400	300	2.0	N/C O OUL COT
classification for	6	1065370	Pl, Sx Bl <sup>201</sup> 208	Fd <sup>14,32</sup>	3	1000	500	400	2.0	Pl(1.4), Others(0.8)
MSxk)		1	PI, Sx BI <sup>201</sup> 208	Fd <sup>14,32</sup>	4	1200	700	600	2.0	
			PI Sx BI		1	600	300	250	0.0	
MSxk3 (use	_	400507	PI Sx BI		2	800	400	300	2.0	514.0.01.00
classification for	8	1065371	Sx BI <sup>201</sup> <sup>208</sup>	Pl <sup>200</sup>	3	1000	500	400	2.0	Pl(1.4), Others(0.8)
MSxk)		]	Sx BI <sup>201 208</sup>	Pl <sup>200</sup>	4	1200	700	600	2.0	
			PI Sx BI		1	400	200	200	0.0	
MSxk3 (use	_	1065370	PI Sx BI		2	600	300	250	1.0	DI44 0) Oct(0 C)
classification for	9	1065372	Sx1	BI <sup>1 208</sup> PI <sup>1 200</sup>	3	800	400	300	1.0	Pl(1.0),Others(0.6)
MSxk)		1	Sx1	BI <sup>1 208</sup> PI <sup>1 200</sup>	4	1000	500	400	1.0	
			Py Fd		1	200	100	100	0.0	
DD: 1.4	404	4005075	Py Fd		2	300	125	125	2.0	All/o C
PPxh1	101	1065376	Py Fd <sup>27</sup>		3	300	150	150	2.0	All(0.6)
		]	Py Fd <sup>27</sup>		4	400	200	200	2.0	
			Py Fd		1	200	100	100	0.0	
	l	I ,	Py Fd		2	300	125	125	1.0	All/o C
DDv-I-4	100	1000000								All(0.6)
PPxh1	102	1065373	Py <sup>27</sup>	Fd <sup>27</sup>	3	300	150	150	1.0	711(6.5)
PPxh1	102	1065373		Fd <sup>27</sup> Fd <sup>27</sup>	3	300 400	150 200	150 200	1.0	/11(0.0)

			Py Fd		1	200	100	100	0.0	
PPxh1	103	1065374	Py Fd		2	300	125	125	2.0	All(0.6)
PPXIII	103	1005574	Py <sup>27</sup>	Fd <sup>27</sup>	3	300	150	150	2.0	All(U.0)
			Py <sup>27</sup>	Fd <sup>27</sup>	4	400	200	200	2.0	
			Py Fd		1	200	100	100	0.0	
			Py Fd		2	300	125	125	2.0	
PPxh1	104	1065375	Py <sup>27</sup> Fd <sup>27</sup>		3	300	150	150	2.0	All(0.6)
			Py <sup>27</sup> Fd <sup>27</sup>		4	400	200	200	2.0	
			Fd Py		1	300	150	150	0.0	
DDk4	110	1005277	Fd Py		2	400	200	200	2.0	All/O C)
PPxh1	110	1065377	Fd Py		3	500	300	300	2.0	All(0.6)
			Fd Py		4	600	400	400	2.0	
			Fd Py		1	400	200	200	0.0	
PPxh1	111	1065378	Fd Py		2	600	300	250	2.0	All(0.6)
I I AIII	'''	1003370	Fd Py		3	800	400	300	2.0	Aii(0.0)
			Fd Py		4	1000	500	400	2.0	
			Py Fd		1	200	100	100	0.0	
PPxh2	101	1065382	Py Fd		2	300	125	125	1.0	AIVO C)
PPXIIZ	101	1005362	Py Fd <sup>27</sup>		3	300	150	150	1.0	All(0.6)
			Py Fd <sup>27</sup>		4	400	200	200	1.0	
			Py Fd		1	200	100	100	0.0	
PPxh2	102	1065379	Py Fd		2	300	125	125	1.0	All(0.6)
FFXIIZ	102	1005579	Py <sup>27</sup> Fd <sup>27</sup>		3	300	150	150	1.0	All(0.0)
			Py <sup>27</sup> Fd <sup>27</sup>		4	400	200	200	1.0	
			Py Fd		1	200	100	100	0.0	
PPxh2	103a,	1065380	Py Fd		2	300	125	125	2.0	All(0.6)
PPXIIZ	103b	1000000	Py <sup>27</sup> Fd <sup>27</sup>		3	300	150	150	2.0	All(U.0)
			Py <sup>27</sup> Fd <sup>27</sup>		4	400	200	200	2.0	
			Fd Py		1	300	150	150	0.0	
PPxh2	110.1	1065383	Fd Py		2	400	200	200	2.0	All(0.6)
T T AIL		100000	Fd	Ру	3	500	300	300	2.0	, iii(0.0)
			Fd	Ру	4	600	400	400	2.0	
			Fd Py		1	300	150	150	0.0	
PPxh2	110.2	1065384	Fd Py		2	400	200	200	2.0	All(0.6)
T ALL	110.2	1000001	Fd	Py	3	500	300	300	2.0	, iii(0.0)
			Fd	Py	4	600	400	400	2.0	
			Fd Py		1	300	150	150	0.0	
PPxh2	111	1065385	Fd Py		2	400	200	200	2.0	All(0.6)
			Fd	Py	3	500	300	300	2.0	<i>C</i> 7
			Fd	Py	4	600	400	400	2.0	

# Footnotes applicable to Appendix J-1 and J-2 for Okanagan Shuswap Resource District FDUs

Conifer Tree Species	Footnote #	Footnote #	Footnote #	<u>Footnot e</u>
"Ba" means amabilis fir;	*	Avoid Logging	49	retired November 2010
"Bg" means grand fir;	1	suitable on elevated microsites	50	restricted to sites where the species occurs as a major species in a
"BI" means subalpine fir;	2	retired July 2017		pre-harvest, natural stand
"Bp" means noble fir;	3	suitable on coarse-textured soils	51	retired July 2017
"Cw" means western red cedar;	4	suitable on medium-textured soils	52	suitable on sheltered microsites with deep soil
"Fd" means Douglas-fir;	5	footnote retired	53	minor component
"Hm" means mountain hemlock;	6	suitable on nutrient-very-poor sites	54	retired July 2017
"Hw" means western hemlock;	7	suitable on nutrient-medium sites	55	retired July 2017
"Lt" means tamarack;	8	suitable on steep slopes		
"Lw" means western larch;	9	suitable on warm aspects	#	Broadle af Manage ment Constraints
"Pa" means whitebark pine;	10	suitable on cool aspects	a	productive, reliable, and feasible regeneration option
"PI" means lodgepole pine;	11	suitable on crest slope positions	b	limited in productivity, reliability and/or feasibility
"Pw" means white pine;	12	suitable on cold air drainage sites		
"Py" means ponderosa pine;	13	suitable at upper elevations	#	<u>Localize d Footnot e s</u>
"Sb" means black spruce;	14	suitable at lower elevations	56	retired July 2017
"Se" means Engelmann spruce;	15	suitable in the northern portion of biogeoclimatic unit	57	retired November 2010
"Ss" means sitka spruce;	16	suitable in the southern portion of biogeoclimatic unit	58	South Area - Fd limited to a max 50% of preferred and acceptable
"Sw" means white spruce;	17	suitable in the western portion of biogeoclimatic unit		well-spaced stems in the IDFmw and all subzones of the ICH due
"Sx" means hybrid spruce or interior spruce;	18	suitable in the eastern portion of biogeoclimatic unit		to root rot. See Root Rot Handbook for management issues
"Sxs" means hybrid sitka spruce;	19	retired July 2017		(FLNRORD 2018).
"Sxw" means hybrid white spruce;	20	retired July 2017	59	Prince George region - max 1,400 total sph of aspen and
"Yc" means yellow cedar.	21	retired July 2017		cottonwood. Treat as 'ghost' trees in surveys.
,	22	suitable in the southern Gardner Canal-Kitlope area	60	retired July 2017
Broadle af Tree Species	23	retired July 2017	61	retired July 2017
Diodaled. Thee openes	23 24	suitable in wetter portion of biogeoclimatic unit	62	retired November 2010
"Acb" means balsam poplar;	25		63	retired July 2017
"Act" means black cottonwood;	25 26	retired July 2017 suitable minor species on nutrient poor sites	66	Mackenzie forest district - may be preferred where risk of snow
"At" means trembling aspen;		·	00	damage is low or risk of frost damage is excessive on spruce.
"Dr" means red alder;	27	partial high-canopy shade required for successful	67	retired July 2017
"Ep" means common paper birch;	20	establishment	68	retired July 2017
"Mb" means bigleaf maple;	28	limited by moisture deficit	69	suitable at upper elevations of the biogeoclimatic unit only when
"Qg" means garry oak;	29 30	risk of heavy browsing by moose	09	used in the southern portion of the biogeoclimatic unit
"Ra" means arbutus.		retired November 2010	70	
	31	must use of blister rust resistant stock. See BC Journal of	70	retired July 2017
"Biogeoclimatic unit" or "BGC classification"		Ecosystems and Management 10(1): 97-100 for supplementary		
means the zone, subzone, variant and site	22	information.	200	Pl can be moved from Acceptable to Preferred, to the extent
series described in the most recent field	32	limited by growing-season frosts	200	
guide published by the Ministry of Forests	33	footnote retired and replaced with footnote 'a'		specified below, only on sites where there is a low risk of damage
for the identification and interpretation of	34	risk of snow damage		from forest health factors:  • where there is > 50% Pl in the pre-harvest stand, Pl can be
ecosystems, as applicable to a harvested	35	use resistant stock to mitigate risk of spruce weevil damage -		moved to preferred;
area.		See Ss Weevil Decision Tool: http://pubs.cif-		where there is 25-50% Pl in the pre-harvest stand, Pl can be
	25	ifc.org/doi/abs/10.5558/tfc2013-042		·
"MIN or "Min" means minimum.	36	retired July 2017		moved to preferred to a maximum of 50% well-spaced stems.
	37	retired November 2010		For areas with less than 25% Pl in the pre-harvest stand, or where risk of damage from forest health factors is moderate or high, Pl
" <b>p</b> " means Preferred, " <b>a</b> " means	38	footnote retired		remains acceptable.
Accepta ble .	39	retired July 2017	201	·
	40	risk of redheart damage in areas subject to cold winter outflow	201	maximum 50% of preferred and acceptable well-spaced trees
		winds	202	no advance regeneration in even aged stand management recommended on sites for climate change adaptation
	41	limited by poorly drained soils	203	9 .
	42	suitable on sites with a fresh soil moisture regimes	204	not recommended due to climate change concerns
	43	retired July 2017	205	limited by cold temperatures
	44	suitable in areas of the subzone variant with relatively strong	206	plant on exposed mineral soils
		maritime influence	207	obstacle planting recommended
	45	suitable in areas of the subzone variant with relatively strong	208	In addition to the free growing damage criteria, BI advanced
		continental influence		regeneration can be counted as well-spaced only where it meets
	46	use resistant seedlot south of the Dean Channel		the following criteria at free growing in even aged management:
	47	risk of balsam wooly adelgid within quarantine area see		apical dominance > 1 (as measured by comparing ratio of leader
		http://www2.gov.bc.ca/gov/content/industry/agriculture-		height to length of most recent branch whorl) at free growing;
		seafood/animals-and-crops/plant-health/insects-and-plant-		• 75% live crown;
		disease s/n u r se ry -a n d-or n a me nt al s/bal s a m-w o o lly -a d elgi d		• no scars, forks, crooks, or sweeps, and;
	48	risk of browsing by deer		• where it is < 1.5 m ht at time of harvest.
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# Appendix K: Stocking Standard Reference Tables for the Selkirk Natural Resource District (including Cascadia TSA, Golden TSA, Revelstoke TSA, TFL 55 and TFL 56)

## **Even-aged Stocking Standards for the Selkirk Natural Resource District**

Grey shaded cells displaying "Okanagan" in the BGC Classification column apply only to Harvest Authority areas within the Okanagan Shuswap Natural Resource District that were approved prior to the effective date of FSP Amendment #6.

BGC		ID#		Reg	jeneration				Free Growing	
Classificat	ion		Spe	cies		Stocking(i	)		Height	
			Con	ifer	Target	MIN N pa	ЛIN p	Regen Date	Species	Height
Zone/SZ/Variant	Series	ID#	Preferred (p)	Acceptable (a)	(we	ell-spaced/ha)		(yrs)		(m)
ESSFdc1	01	1059596	Pl Se	Bl	1200	700	600	4	Pl	1.6
Okanagan									Others	8.0
	02	1059597	Pl	Bl <sup>13</sup> Se	1000	500	400	7	Pl	1.2
									Others	0.6
	03	1059598	Pl	Bl <sup>13</sup> Se	1000	500	400	4	PI	1.2
									Others	0.6
	04	1059599	Pl Se	BI	1200	700	600	4	PI	1.6
									Others	0.8
	05	1059600	Pl Se	BI <sup>10,13</sup>	1000	500	400	4	PI	1.2
									Others	0.6
	06	1059601	Pl <sup>1</sup> Se <sup>1,32</sup>	BI <sup>1,32</sup>	1000	500	400	4	PI	1.2
									Others	0.6
ESSFdc2	01	1059602	Pl Se	Bl	1200	700	600	4	PI	1.6
Okanagan									Others	0.8
	02*	_	_	-	-	_	_	_	_	-
	03	1059603	Pl	Bl <sup>13</sup> Se	1000	500	400	4	PI	1.2
	00	1000000	• • • • • • • • • • • • • • • • • • • •	Di CC	1000	000	400	-	Others	0.6
	04	1059604	Pl	Bl <sup>13</sup> Se	1000	500	400	4	Pl	1.2
	04	1003004		Di Ge	1000	300	+00	7	Others	0.6
	05	1059753	Pl Se	BI <sup>10,13</sup>	1000	500	400	4	Pl	1.2
	05	1059755	FI 3e	ы	1000	500	400	4	Others	0.6
	06	1059605	Pl Se	ВІ	1200	700	600	4	Pl	1.6
	- 00	1009000	1106	DI	1200	700	000	7	Others	0.8
	07	1059606	Pl Se <sup>32</sup>	ВІ	1200	700	600	4	Pl	1.6
	07	1039000	PI Se	DI	1200	700	000	4	Others	0.8
	00	4050007	Pl <sup>1</sup> Se <sup>1,32</sup>	BI <sup>1,32</sup>	4000	E00	400			
	80	1059607	PI Se	DI "	1000	500	400	4	Pl	1.2
									Others	0.6

ESSFdk	01, 03, 04	1059754	PI Sx Fd 14 Lw 14	Bl	1200	700	600	4	PI, Lw	1.6
Columbia	01, 03, 04	1039734	TIOXIU LW	ы	1200	700	000	4	Fd	1.0
									Others	0.8
	02	1059755	Fd <sup>9,14</sup> Lw <sup>9,14</sup> Pl	Sx	1000	500	400	4	PI, Lw	1.2
									Fd	8.0
									Others	0.6
	05, 06	1059756	Bl <sup>32</sup> Pl Sx <sup>32</sup>		1200	700	600	4	Pl	1.6
									Others	8.0
ESSFvc	01	1059608	Bl Se	Hm	1200	700	600	4	All	8.0
Okanagan	02	1059609	Se	Bl Hm	1000	500	400	4	All	0.6
	03	1059610	Bl Se	Hm	1000	500	400	4	All	0.6
	04	1059611	Bl Se	Hm	1200	700	600	4	All	8.0
	05	1059612	BI <sup>1,32</sup> Se <sup>1,32</sup>	Hm <sup>1</sup>	1000	500	400	4	All	0.6
ESSFvc	01, 04	1059757	Sx Bl Hm <sup>71,34</sup>		1200	700	600	4	All	8.0
Columbia	02, 03, 05	1059758	Sx Bl Hm <sup>71,34</sup>		1000	500	400	4	All	0.6
ESSFvv	01	1059613	Bl <sup>32</sup> Se <sup>32</sup>	Hm	1200	700	600	4	All	8.0
Okanagan	02	1059614	Bl <sup>32</sup> Se <sup>32</sup>	Hm	600	400	400	7	All	0.6
	03	1059615	Bl <sup>32</sup> Se <sup>32</sup>	Hm	1000	500	400	7	All	0.6
	04	1059616	Bl <sup>32</sup> Se <sup>32</sup>	Hm	600	400	400	4	All	0.6
ESSFwc1	01, 03, 04	1059759	BI Sx PI <sup>23,34</sup>	$Cw^{9,32}HmHw^{9,32}$	1200	700	600	4	PI	1.6
Columbia									Others	8.0
	02	1059760	Pl <sup>34</sup> Sx Bl	Cw <sup>55</sup> Hm Hw	1000	500	400	4	PI	1.2
									Others	0.6
ESSFwc2	01	1059617	Bl Se		1200	700	600	4	All	8.0
Okanagan	02	1059618	Se <sup>10,13</sup>	BI <sup>10,13,14</sup>	1000	500	400	4	All	0.6
	03	1059619	Se	BI <sup>10,13,14</sup>	1000	500	400	4	All	0.6
	04	1059620	Bl Se		1200	700	600	4	All	8.0
	05	1059621	Bl Se		1200	700	600	4	All	8.0
	06	1059622	BI <sup>32</sup> Se <sup>32</sup>		1200	700	600	4	All	8.0
	07	1059623	BI <sup>32</sup> Se <sup>32</sup>		1200	700	600	4	All	8.0
	08	1059624	BI <sup>1,32</sup> Se <sup>1,32</sup>		1000	500	400	4	All	0.6
	09	1059625	Pl <sup>1</sup> Se <sup>1,32</sup>	BI <sup>1,32</sup>	400	200	200	4	All	0.6

r										
ESSFwc2 Columbia	01, 04, 05	1059761	BI Sx	Pl <sup>23,34</sup> Hm	1200	700	600	4	Pl Others	1.6 0.8
	02	1059762	PI Sx <sup>10,13</sup>	Bl <sup>10</sup> Hm	1000	500	400	4	PI	1.2
									Others	0.6
	03	1059763	BI Sx PI <sup>23,34</sup>	Hm	1000	500	400	4	PI	1.2
									Others	0.6
	06, 07	1059764	Sx <sup>32</sup> Bl <sup>32</sup> Pl <sup>23,34</sup>	Hm	1200	700	600	4	PI	1.8
			122 - 1222224						Others	8.0
	08	1059765	BI <sup>1,32</sup> Sx <sup>1,32</sup> PI <sup>23,34</sup>	Hm	1000	500	400	4	PI	1.2
			1 o 132	132					Others	0.6
	09*	1059766	Pl <sup>1</sup> Sx <sup>1,32</sup>	BI <sup>1,32</sup> Hm	400	200	200	4	Pl	1.2
ESSFwc4	01	1059626	BI Se	Pl <sup>34</sup>	1200	700	600	4	Others Pl	0.6
Okanagan	UI	1059626	ы эе	FI	1200	700	600	4	Others	1.6 0.8
- managan	02	1059627	Se Pl <sup>34</sup>	ВІ	1000	500	400	4	PI	1.2
									Others	0.6
	03	1059628	Se Bl	Pl <sup>34</sup>	1000	500	400	4	PI	1.2
									Others	0.6
	04	1059629	Se Bl	Pl <sup>34</sup>	1200	700	600	4	PI	1.6
									Others	0.8
	05	1059630	BI Se BI <sup>1,32</sup> Se <sup>1,32</sup>		1200	700	600	4	All	0.8
	06	1059631		PI <sup>1,34</sup>	1200	700	600	4	All	0.8
	07	1059632	Se <sup>1</sup> Bl <sup>1</sup>	PI "	1000	500	400	4	PI Others	1.2 0.6
ESSFwc4	01, 04, 05	1059767	BI Sx Pl <sup>23,34</sup>	Hm	1200	700	600	4	PI	1.6
Columbia	01, 04, 03	1039707	DI OXTT	1 1111	1200	700	000	4	Others	0.8
	02, 03	1059768	Sx Pl <sup>23,34</sup>	Hm	1000	500	400	4	PI	1.2
	·		Bl <sup>54</sup> (02 Only)						Others	0.6
	06	1059769	Sx <sup>1,32</sup> BI <sup>1,32</sup>	Hm	1200	700	600	4	All	0.8
	07	1059770	Sx <sup>1</sup> Bl <sup>1</sup>	Hm	1000	500	400	4	PI	1.2
			PI <sup>1,23,34</sup>						Others	0.6
ESSFwm	01	1059771	BI Sx Fd <sup>14</sup> Lw <sup>14</sup>	Pl <sup>34</sup>	1200	700	600	4	Lw, Pl	2.0
Columbia									Others	1.0
	02	1059772	Sx Pl <sup>34</sup>	BI Hw <sup>14</sup>	1200	700	600	4	PI	2.0
			0.00						Others	1.0
	03	1059773	Fd <sup>9,32</sup> Lw <sup>9,32</sup> Sx	BI PI <sup>34</sup> Hw	1200	700	600	4	Lw, PI, Pw	2.0
				Pw <sup>9,31,32,57</sup>					Fd	1.4
									Others	1.0

ESSFwm Columbia	04	1059774	BI Sx	PI <sup>34</sup> Hw <sup>14</sup>	1200	700	600	4	Pl	2.0
(cont'd)									Others	1.0
ESSFxc Okanagan	01	1059633	Pl Se <sup>32</sup>	BI <sup>10,13</sup>	1200	700	600	4	Pl Others	1.6 0.8
	02	1059634	PI	Bl <sup>13</sup> Se	600	400	400	7	PI	1.2
				40					Others	0.6
	05	1059635	PI	BI <sup>13</sup> Se	1000	500	400	7	PI	1.2
		4050000	DI O	Bl <sup>13</sup>	4000	700	222	_	Others	0.6
	06	1059636	Pl Se	BI	1200	700	600	7	Pl	1.6 0.8
	07	4050627	PI Se <sup>32</sup>	Bl <sup>32</sup>	4000	700	600	4	Others Pl	
	07	1059637	Pi Se	ы	1200	700	600	4	Others	1.6 0.8
	08	1059638	Pl <sup>1</sup> Se <sup>1,32</sup>	BI <sup>1,32</sup>	1000	500	400	4	Pl	1.2
	00	1039030	11 00	ы	1000	300	400	4	Others	0.6
ICHmk1	01	1059639	Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl	BI <sup>10,13</sup> Cw <sup>10,13,32</sup>	1200	700	600	4	PI, Lw	2.0
Okanagan	01	1000000	Sx <sup>10,13</sup>	5. 0	1200	700	000	7	Fd	1.4
Okanagan									Others	1.0
	02	1059640	Fd Pl	BI <sup>10,13</sup> Sx <sup>10,13</sup>	600	400	400	4	PI	1.4
	<b>~</b>	.0000.0						•	Fd	1.0
									Others	0.8
	03	1059641	Fd Lw Pl	BI <sup>10,13</sup> Cw <sup>10,13</sup>	1000	500	400	4	PI, Lw	1.4
			Sx <sup>10,13</sup>						Fd	1.0
									Others	0.8
	04	1059642	Fd <sup>32</sup> Lw <sup>32</sup> Pl	BI 10,13 Cw 10,13,32	1200	700	600	4	PI, Lw	2.0
			Sx <sup>10,13</sup>						Fd	1.4
									Others	1.0
	05	1059643	PI Sx Fd <sup>9,14,32</sup> Lw <sup>9,14,32</sup>	BI Cw <sup>32</sup>	1200	700	600	4	PI, Lw	2.0
									Fd	1.4
									Others	1.0
	06	1059644	Pl Sx Fd <sup>9,14,32</sup> Lw <sup>9,14,32</sup>	Bl Cw <sup>32</sup>	1200	700	600	4	PI, Lw	2.0
									Fd	1.4
			1 _ 1122 . 122	4 00					Others	1.0
	07	1059645	Pl <sup>1</sup> Sx <sup>1</sup> Fd <sup>1,32</sup> Lw <sup>1,32</sup>	BI <sup>1</sup> Cw <sup>32</sup>	1000	500	400	4	PI, Lw	1.4
									Fd	1.0
									Others	0.8

ICHmk1	01	1059775	Fd <sup>9,14,32</sup> Lw <sup>9,14,32</sup> PI	BI <sup>10,13</sup> Cw <sup>10,13,32</sup>	1200	700	600	4	PI, Lw	2.0
Columbia			Sx <sup>10,13</sup>						, Fd	1.4
									Others	1.0
	02	1059776	Fd Pl	Sx <sup>10,13</sup> Bl <sup>10,13</sup>	600	400	400	4	PI	1.4
				Py <sup>9,14</sup>					Fd	1.0
									Others	8.0
	03	1059777	Fd Lw Pl Sx <sup>10,13</sup>	Cw <sup>10,13</sup> Bl <sup>10,13</sup>	1000	500	400	4	PI, Lw	1.4
									Fd	1.0
									Others	8.0
	04	1059778	Fd <sup>32</sup> Lw <sup>32</sup> PI Sx <sup>10,13</sup>	BI <sup>10,13</sup> Cw <sup>10,13,32</sup>	1200	700	600	4	PI, Lw	2.0
									Fd	1.4
									Others	1.0
	05, 06	1059779	Pl Sx Fd <sup>9,14,32</sup>	BI Lw <sup>9,14,32</sup> Cw <sup>32</sup>	1200	700	600	4	PI, Lw	2.0
									Fd	1.4
									Others	1.0
	07	1059780	$Pl^1 Sx^1 Fd^{1,32}$	BI <sup>1</sup> Cw <sup>32</sup> Lw <sup>1,32</sup>	1000	500	400	4	PI, Lw	1.4
									Fd	1.0
			0.44.00	10.12 -					Others	8.0
ICHmk2	01	1059646	Fd Pl Sx Lw 9,14,32	BI <sup>10,13</sup> Cw	1200	700	600	4	PI, Lw	2.0
Okanagan									Fd Sx	1.4 0.8
									Others	1.0
	02	1059647	Fd Pl	BI <sup>10,13</sup>	600	400	400	4	PI	2.0
	02	1039047	ru Fi	ы	000	400	400	4	Fd	1.4
									Others	1.0
	03	1059648	Fd Pl Sx <sup>10,13</sup> Lw	BI <sup>10,13</sup> Cw <sup>10,13</sup>	1000	500	400	4	PI	2.0
									Fd	1.4
									Others	1.0
	04	1059649	Fd Pl Lw Sx	BI <sup>10,13</sup> Cw <sup>10,13</sup>	1200	700	600	4	PI, Lw	2.0
									Fd	1.4
									Sx	8.0
									Others	1.0
	05	1059650	Fd <sup>9,14,32 Pl</sup> Sx	Bl <sup>13</sup> Cw <sup>32</sup>	1200	700	600	4	PI	2.0
									Fd	1.4
			4 4 400						Others	1.0
	06	1059651	Pl <sup>1</sup> Sx <sup>1</sup> Fd <sup>1,32</sup>	BI <sup>1</sup> Cw <sup>32</sup>	1000	500	400	4	PI	1.4
									Fd	1.0 0.8
									Others	0.0

ICHmw1	01	1059781	Fd Pl Cw Sx Lw <sup>23</sup>	BI Pw <sup>31,57</sup>	1200	700	600	4	PI, Lw	2.0
Columbia			Hw <sup>71</sup>						Fd, Pw	1.4
									Others	1.0
	02, 04	1059782	Fd Pl Lw <sup>23</sup>	Cw <sup>28</sup> Sx <sup>28</sup> Bl <sup>28</sup>	1200	700	600	4	PI, Lw	2.0
				$Hw^{28}Pw^{31,57}$					Fd, Pw	1.4
									Others	1.0
	03	1059783	Fd Pl Hw <sup>71</sup>	Bl <sup>28</sup>	1200	700	600	4	PI, Lw	2.0
			Sx <sup>10,13,28</sup> Lw <sup>23</sup>	Pw <sup>31,57</sup>					Pw, Fd	1.4
			Cw <sup>28</sup>						Others	1.0
	05	1059784	Cw <sup>32</sup> Fd <sup>1,32</sup> Hw <sup>32</sup> Sx	BI PI Pw <sup>1,31,57</sup>	1200	700	600	4	PI, Lw	2.0
			Lw <sup>9,14,23</sup>						Fd, Pw	1.4
									Others	1.0
	06	1059785	Cw Fd <sup>9,14</sup> Bl	PI Pw <sup>31,57</sup>	1200	700	600	4	PI, Lw, Pw	2.0
			Hw Sx Lw <sup>9,14,23</sup>						Fd	1.4
									Others	1.0
	07	1059821	Cw Hw Sx Fd <sup>14</sup>	BI PI	1000	500	400	4	PI	1.4
									Fd	1.0
									Others	8.0
ICHmw2	01	1059652	Fd Lw Sx <sup>10,13</sup>	Hw Cw	1200	700	600	4	PI,Pw,Lw	2.0
Okanagan			Pw <sup>31</sup>	Pl <sup>51</sup> Py <sup>9,14,23</sup>					Fd	1.4
				04 40 40					Others	1.0
	02	1059653	Fd Lw Pl <sup>51</sup>	Cw Pw <sup>31</sup> Sx <sup>10,13</sup>	1200	700	600	4	PI,Pw,Lw	2.0
			Py <sup>9,14,23</sup>						Fd	1.4
	00	4050050	<b>- -</b> . 51	31	4000	700	000	4	Others	1.0
	03	1059653	Fd Lw Pl <sup>51</sup> Py <sup>9,14,23</sup>	Cw Pw <sup>31</sup> Sx <sup>10,13</sup>	1200	700	600	4	PI, Pw, Lw	2.0
			Py** * *	SX **					Fd Others	1.4 1.0
	04	1059654	Cw Fd 14 Hw Lw 14 Sx	BI PI <sup>51</sup>	1200	700	600	4	PI, Pw, Lw	2.0
	04	1039034	Pw <sup>31</sup>	DI PI	1200	700	000	4	Fd. Fd.	1.4
			1 **						Others	1.4
	05	1059655	Cw <sup>32</sup> Sx Fd <sup>1,32</sup>	BI Hw <sup>32</sup> Pl <sup>51</sup>	1200	700	600	4	PI, Pw, Lw	2.0
		.00000	Pw <sup>31</sup> Lw <sup>1,32</sup>	DITIW 11				·	Fd	1.4
									Others	1.0
	06	1059656	Cw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1</sup> Hw <sup>1,32</sup> Pw <sup>1,31</sup>	1000	500	400	4	PI, Pw	1.4
									Others	0.8
	07	1059657	Cw <sup>1,32</sup> Sx <sup>1</sup>	Bl <sup>1</sup> Hw <sup>1, 32</sup>	1000	500	400	4	PI	1.4
									Others	0.8

ICHmw2	01, 04	1059786	Fd Lw Pl <sup>71</sup>	Pw <sup>31,57</sup> Bl <sup>10,13</sup>	1200	700	600	4	PI, Lw, Pw	2.0
Columbia			Sx Cw Hw	Py <sup>9,14,23</sup>					Fd	1.4
									Others	1.0
	03	1059787	Fd Lw Pl Cw	Pw <sup>31,57</sup> Bl <sup>10,13</sup>	1200	700	600	4	PI, Lw, Pw	2.0
				Sx <sup>10,13</sup> Hw					Fd	1.4
				Py <sup>9,14,23</sup>					Others	1.0
	05	1059788	Cw Sx Hw Pl <sup>71</sup>	BI Pw <sup>31,57</sup>	1200	700	600	4	PI, Lw, Pw	2.0
			Fd <sup>9,14</sup> Lw <sup>9,14</sup>	Py <sup>14,23</sup>					Fd	1.4
									Others	1.0
	06	1059789	Cw <sup>32</sup> Sx Pl <sup>71</sup>	BI Pw <sup>31,57</sup>	1200	700	600	4	PI, Lw, Pw	2.0
			Fd <sup>1,32</sup> Lw <sup>1,32</sup> Hw <sup>32</sup>	Py <sup>14,23</sup>					Fd	1.4
									Others	1.0
	07, 08	1059790	Cw <sup>1,32</sup> Hw <sup>1,32</sup>	Bl <sup>1</sup> Pl <sup>1</sup>	1000	500	400	4	PI, Pw	1.4
			Sx <sup>1</sup> Fd <sup>23</sup>	Pw <sup>1,31,57</sup>					Others	8.0
ICHmw3	01	1059659	Fd Lw Cw <sup>10,13</sup> Sx <sup>10,13</sup>	Hw <sup>10,13</sup>	1200	700	600	4	PI, Pw, Lw	2.0
Okanagan			Pw <sup>31</sup>						Fd	1.4
									Others	1.0
	02	1059660	Fd Lw	Cw <sup>10,13</sup> Pw <sup>31</sup>	1000	500	400	4	Lw,PI,Pw	1.4
				PI <sup>51</sup>					Fd	1.0
									Ру	8.0
	03	1059661	Fd Lw <sup>32</sup>	Cw BI <sup>10,13</sup> Pw <sup>31</sup>	1000	500	400	4	PI, Pw, Lw	1.4
				PI <sup>51</sup> Sx <sup>10,13</sup>					Fd	1.0
				54 40.40					Others	8.0
	04	1059662	Fd Sx <sup>10,13</sup> Lw	PI <sup>51</sup> Cw <sup>10,13</sup>	1200	700	600	4	PI, Pw, Lw	2.0
			Pw <sup>31</sup>						Fd	1.4
			10.12 - 10.12						Others	1.0
	05	1059663	Fd Cw <sup>10.13</sup> Sx <sup>10,13</sup>		1200	700	600	4	PI, Pw, Lw	2.0
			Pw <sup>31</sup>						Fd	1.4
			44						Others	1.0
	06	1059664	Cw Fd <sup>14</sup> Hw Sx	Bl	1200	700	600	4	PI, Pw, Lw	2.0
			Pw <sup>31</sup>						Fd	1.4
			- 22122	20					Others	1.0
	07	1059665	Cw <sup>32</sup> Sx Fd <sup>1,32</sup>	BI Hw <sup>32</sup>	1200	700	600	4	PI, Pw, Lw	2.0
			Pw <sup>31</sup>						Fd	1.4
			132 132 1	24					Others	1.0
	08	1059666	Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup>	BI Pw <sup>31</sup>	1000	500	400	4	PI	1.4
				PI <sup>1,51</sup>					Other	8.0

ICHmw3	01, 04,	1059791	Fd Pl <sup>71</sup> Lw <sup>23</sup>	Pw <sup>31,57</sup> BI	1200	700	600	4	PI, Lw	2.0
Columbia	05, 06	1000101	Cw <sup>10,13</sup> Sx <sup>10,13</sup>		1200	700	000	•	Fd, Pw	1.4
Columbia	33, 33		Hw <sup>10,13</sup>						Others	1.0
	02	1059792	Fd Pl Lw <sup>23</sup>	Py <sup>9,14,23</sup> Pw <sup>31,57</sup>	1000	500	400	4	PI, Lw, Pw	1.4
				,					Fd	1.0
									Ру	0.8
	03	1059793	Cw <sup>10,13</sup>	Pw <sup>31,57</sup>	1000	500	400	4	PI, Lw, Pw	1.4
	03	1039793	Ow .	Sx <sup>10,13</sup> Bl <sup>10,13</sup>	1000	300	400	4	FI, LW, FW	1.0
				OX DI					Others	0.8
	06	1059794	Fd <sup>14</sup> Pl <sup>71</sup> Lw <sup>23</sup>	Pw <sup>31,57</sup> BI	1200	700	600	4	PI, Lw, Pw	2.0
	00	1000704	Cw Sx Hw		1200	700	000	7	Fd	1.4
			OW CX TIW						Others	1.0
	07	1059795	Cw <sup>32</sup> Sx Hw <sup>32</sup>	BI Pw <sup>31,57</sup>	1200	700	600	4	PI, Lw, PI	2.0
	07	1000700	Fd Pl <sup>71</sup>	Lw <sup>1,23,32</sup>	1200	700	000	7	Fd	1.4
									Others	1.0
	08	1059796	Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup>	Bl <sup>1</sup> Pw <sup>57</sup>	1000	500	400	4	PI, Pw	1.4
			Pl <sup>1</sup>						Others	8.0
ICHvk1	01	1059667	Cw <sup>32</sup> Sx	Bl Fd <sup>1,14,32,34,70</sup>	1200	700	600	4	Pw	2.0
Okanagan			Pw <sup>31</sup>	Hw <sup>32</sup>					Fd	1.4
									Others	1.0
	02	1059668	Cw Fd <sup>9</sup> Sx	BI Hw	1200	700	600	4	Pw	2.0
			Pw <sup>31</sup>						Fd	1.4
									Others	1.0
	03	1059669	Cw Fd <sup>9,14,34</sup> Hw Sx	BI <sup>10,13</sup>	1200	700	600	4	Pw	2.0
			Pw <sup>31</sup>						Fd	1.4
			44.24.70	42					Others	1.0
	04	1059670	Cw Fd 14,34,70 Hw Sx	Bl <sup>13</sup>	1200	700	600	4	Pw	2.0
			Pw <sup>31</sup>						Fd	1.4
			0 132 0 1	Dil D. 131 v. 23					Others	1.0
	05	1059671	Cw <sup>1,32</sup> Sx <sup>1</sup>	Bl <sup>1</sup> Pw <sup>1,31</sup> Yc <sup>23</sup>	1000	500	400	4	Pw	1.4
			- 122 122 1	Hw <sup>1,32</sup>					Others	8.0
	06	1059672	Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup>	BI <sup>1</sup> Pw <sup>1,31</sup>	1000	500	400	4	Pl	1.4
									Others	8.0

24.57	Fd ners , Lw Fd ners	1.4 1.0 2.0 1.4
03 1059798 Fd <sup>9</sup> Cw Sx Hw Pw <sup>31,57</sup> 1200 700 600 4 Pw	, Lw Fd	2.0
	Fd	
D123		1.4
l Bi	ers	
		1.0
05, 06	PI	1.4
	ers	8.0
	w,Lw	2.0
Okanagan Pw <sup>31</sup>	Fd	1.4
	thers	1.0
	w,Lw	1.4
Pw <sup>31</sup>	Fd	1.0
	thers	8.0
03 1059675 Fd Cw <sup>10,13</sup> Sx <sup>10,13</sup> Hw <sup>10,13</sup> 1200 700 600 4	Pw	2.0
Pw <sup>31</sup>	Fd	1.4
	thers	1.0
	PI, PW	2.0
Pw <sup>31</sup>	Fd	1.4
	thers	1.0
	PI, Pw	2.0
Pw <sup>31</sup> Yc <sup>23</sup>	Fd	1.4
	thers	1.0
	PI, Pw	1.4
	thers	8.0
07 1059679 Cw <sup>1,32</sup> Hw <sup>1,32</sup> Sx <sup>1</sup> Bl <sup>1</sup> 1000 500 400 4	Pl	1.4
	thers	0.8
ICHwk1		2.0
- 10.12	Fd	1.4
	ers Pw	1.0 1.4
	Fd	1.0
Oth		0.8
05 1059802 Sx Cw <sup>32</sup> Hw <sup>32</sup> Bl <sup>23</sup> Pw <sup>31,57</sup> 1200 700 600 4 PI, Lw,		2.0
104400 4440000 00 00	Fd	1.4
Oth		1.0
06, 07, 08 1059803 Cw <sup>1,32</sup> Sx <sup>1</sup> Hw <sup>1,32</sup> Bl <sup>123</sup> Pw <sup>1,3157</sup> Pl <sup>1,23,34</sup> 1000 500 400 4 Pl,		1.4
06, 07, 08 1059805 CW 3X 11W BI FW FI 1000 500 400 4 FI, Oth		0.8

DFdk2	IDFdk1	01	1059680	PI Fd <sup>32</sup>	Sx <sup>10,13</sup>	1000	500	400	7	PI, Lw	1.0
DFdk2	Okanagan				Py <sup>9,14</sup>					Fd	8.0
DFdk2										Sx, Py	0.6
DFdk2		02	1059681	Fd <sup>27</sup> Py <sup>9,14</sup>		600	400	400	7	Fd	8.0
DFdk2										Ру	0.6
Py   0.6   Py   0.6		03	1059682	Fd Pl	Py <sup>9,14,23</sup>	600	400	400	7	PI	1.0
DFdk2											
DFdk2											0.6
DFdk2		04	1059683	Fd Pl		1000	500	400	7	Pl	1.0
DFdk2					Py <sup>9,14,23</sup>						
DFdk2										Others	0.6
DFdk2		05	1059684	Fd <sup>9,14,32</sup> Sx	BI <sup>10,13</sup> PI	1000	500	400	7		
DFdk2											
IDFdk2					4.00						
IDFdk2		06	1059685	Pl <sup>1</sup> Sx <sup>1</sup>	Fd <sup>1,32</sup> Bl <sup>1</sup>	1000	500	400	4		
DFdk2											
Okanagan         Py9.14         Fd         0.8           02         1059687         Fd <sup>27</sup> Py <sup>14</sup> 600         400         400         4         Fd         0.8           03         1059688         Fd <sup>32</sup> Pl         Py <sup>14</sup> 1000         500         400         4         Pl         1.0           Fd         0.8         Py         0.6         0.6         0.8         Py         0.6         0.8         Py         0.6 <td< th=""><th></th><th></th><th></th><th></th><th>40.40</th><th></th><th></th><th></th><th></th><th></th><th></th></td<>					40.40						
02       1059687       Fd²² Py¹⁴       600       400       400       4       Fd       0.8       Py       0.6       0.6       0.8       Py       0.6       0.6       0.8       Py       0.6		01	1059686	Pl Fd <sup>32</sup>		1000	500	400	4		
02 1059687 Fd <sup>27</sup> Py <sup>14</sup> 600 400 400 4 Fd 0.8 Py 0.6 O3 1059688 Fd <sup>32</sup> Pl Py <sup>14</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Py 0.6 O4 1059689 Fd <sup>32</sup> Pl Py <sup>9,14</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Sx, Py 0.8 O5 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8 O6 1059691 Pl <sup>1</sup> Sx <sup>1</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6	Okanagan				Py <sup>®, 14</sup>						
03 1059688 Fd <sup>32</sup> Pl Py <sup>14</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Py 0.6 O4 1059689 Fd <sup>32</sup> Pl Py <sup>9,14</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Sx, Py 0.8 O5 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8 Others 0.6				27 - 14							
03		02	1059687	Fd <sup>2</sup> ′ Py <sup>14</sup>		600	400	400	4		
04 1059689 Fd <sup>32</sup> Pl Py <sup>9,14</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Sx, Py 0.8  05 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8  06 1059691 Pl <sup>1</sup> Sx <sup>1</sup> Fd <sup>1,32</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6				32	D 14						
04 1059689 Fd <sup>32</sup> Pl Py <sup>9,14</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Sx, Py 0.8  05 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8  06 1059691 Pl <sup>1</sup> Sx <sup>1</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6		03	1059688	Fd <sup>32</sup> Pl	Py	1000	500	400	4		
04 1059689 Fd <sup>32</sup> Pl Py <sup>9,14</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Sx, Py 0.8 O5 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8 Others 0.6											
Sx <sup>10,13</sup> 05 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4  Fd 1.0  Others 0.8  Pl <sup>1</sup> Sx <sup>1</sup> Fd 1.0  Others 0.8  Others 0.6		04	1050690	⊏432 DI	D <sub>1</sub> ,9,14	1200	700	600	4		
05 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8 Pl fd <sup>1.32</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6		04	1059069		ı y	1200	700	000	4		
05 1059690 Fd <sup>32</sup> Sx Pl Cw <sup>32</sup> 1200 700 600 4 Pl, Lw 1.4 Fd 1.0 Others 0.8  06 1059691 Pl <sup>1</sup> Sx <sup>1</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6				3x							
06 1059691 Pl¹Sx¹ 1000 500 400 4 Pl 1.0 Fd 0.8 Fd 0.8 Others 0.6		05	1050600	Ed <sup>32</sup> Sv DI	Cw <sup>32</sup>	1200	700	600	1		
06 1059691 Pl <sup>1</sup> Sx <sup>1</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6		03	1039090	TU SXFI	OW	1200	700	000	4		
06 1059691 Pl <sup>1</sup> Sx <sup>1</sup> 1000 500 400 4 Pl 1.0 Fd 0.8 Others 0.6											
Fd <sup>1,32</sup> Others 0.6		06	1059691	Pl <sup>1</sup> Sy <sup>1</sup>		1000	500	400	4		
Others 0.6		- 00	1033031			1000	500	400	7		
				i u							
01 1000002 11 0A 011 1000 300 400 4 FI 1.0		07	1059692	Pl <sup>1</sup> Sx <sup>1</sup>	Cw <sup>32</sup>	1000	500	400	4		
Others 0.6		01	1033032	11 0		1000	500	400	7		

IDFdm1	01	1059693	Fd <sup>32</sup> Lw <sup>32</sup> Pl	Py <sup>9,14</sup> Sx <sup>10,13</sup>	1000	500	400	7	PI, Lw	1.0
Okanagan	01	1009093	FU LW FI	1 y - 0x	1000	300	400	,	FI, LW Fd	0.8
Okanagan									Others	0.6
	03	1059694	Fd <sup>27</sup> Py <sup>9,14</sup>	Pl	600	400	400	7	PI	1.0
	00	1000001	,		000	100	100	•	Fd	0.8
									Ру	0.6
	04	1059695	Fd <sup>32</sup> Lw <sup>32</sup> Pl	Sx <sup>10,13</sup>	1000	500	400	7	PI, Lw	1.0
			Py <sup>9,14</sup>						Fd	0.8
			,						Others	0.6
	05	1059696	Fd <sup>32</sup> Lw <sup>32</sup> Pl	Py <sup>9,14</sup> Cw <sup>32</sup>	1200	700	600	7	PI, Lw	1.4
			Sx <sup>10,13</sup>						Fd	1.0
									Sx	0.8
	06	1059697	Fd <sup>32</sup> Lw <sup>32</sup> Sx	PI Cw <sup>32</sup>	1200	700	600	4	PI, Lw	1.4
									Fd	1.0
									Others	0.8
	07	1059698	Pl <sup>1</sup> Sx <sup>1</sup>	Fd <sup>1,32</sup> Lw <sup>1,32</sup>	1000	500	400	4	PI, Lw	1.0
									Fd	8.0
									Others	0.6
IDFdm2	01	1059804	Fd <sup>32</sup> Lw <sup>32</sup> Py	PI <sup>10,13</sup>	1000	500	400	4	PI, Lw	1.0
Columbia									Fd	8.0
			27 10.12						Ру	0.6
	03	1059805	Fd <sup>27</sup> Py Lw <sup>10,13</sup>		600	400	400	4	Lw	1.0
									Fd	0.8
	0.4	405000	E 132 1 32 DI O		4000	700	222		Py	0.6
	04	1059806	Fd <sup>32</sup> Lw <sup>32</sup> Pl Sx		1200	700	600	4	PI, Lw	1.4
									Fd Others	1.0 0.8
	05, 07	1050907	Pl Sx Fd <sup>1,32</sup> Lw <sup>1,32</sup>		1000	<b>500</b>	400	4		
	05, 07	1059807	FISX FU LW		1000	500	400	4	PI, Lw Fd	1.0 0.8
									Sx	0.6
									<b>Ο</b> λ	0.0

IDFmw1	01	1059699	Fd <sup>32</sup> Lw <sup>32</sup>	Cw <sup>10,13</sup> Sx <sup>10,13</sup>	1200	700	600	4	PI, Lw	1.6
Okanagan				PI, Py <sup>9,14</sup>					Fd	1.0
				-					Others	8.0
	02	1059700	Fd <sup>27</sup> Py	Pl	600	400	400	4	Pl	1.2
									Fd	8.0
									Py	0.6
	03	1059701	Fd <sup>27</sup> Py <sup>9,14</sup>	PI Lw <sup>10,13</sup>	600	400	400	4	PI, Lw	1.2
									Fd	8.0
				- 10 12 - 10 12					Ру	0.6
	04	1059702	Fd Lw Pl	Cw <sup>10,13</sup> Sx <sup>10,13</sup>	1000	500	400	4	PI, Lw	1.2
				Py <sup>9,14</sup>					Fd	8.0
			20 20						Others	0.6
	05	1059703	Sx Fd <sup>32</sup> Lw <sup>32</sup>	PI Cw	1200	700	600	4	PI, Lw	1.6
									Fd	1.0
	00	4050704	Sx Fd <sup>1,32</sup> Lw <sup>1,32</sup>	0	4000	700	000	4	Others	0.8
	06	1059704	SX FU LW	Cw	1200	700	600	4	PI, Lw Fd	1.6 1.0
									Others	0.8
IDFmw2	01	1059705	Fd Pl	Cw <sup>10,13</sup> Lw <sup>32</sup>	1200	700	600	4	PI, Lw	1.6
Okanagan	01	1039703	1411	Py <sup>9,14,23</sup> Sx <sup>10,13</sup>	1200	700	000	4	Fd	1.0
Okanagan				BI <sup>10,13</sup>					Others	0.8
	02	1059706	Fd <sup>27</sup> Pl	Py <sup>9,14</sup>	600	400	400	4	Fd, Pl	0.8
	02	1059700	ru ri	ı y	000	400	400	4	Py	0.6
	03	1059707	Fd <sup>14</sup> Pl	Py <sup>9,14</sup> Cw <sup>10,13</sup> Sx <sup>10,13</sup>	1000	500	400	4	PI, Lw	1.6
	00	1033707	14 11	Lw <sup>32</sup>	1000	300	400	7	Fd	1.0
				EW .					Others	0.8
	04	1059708	Fd <sup>32</sup> Sx Pl	Lw <sup>32</sup> Cw <sup>32,37</sup>	1200	700	600	4	PI, Lw	1.6
		1000100	I G OXII		.200		000	•	Fd	1.0
									Others	0.8
	05	1059709	Pl <sup>1</sup> Sx <sup>1</sup>	Cw <sup>1,32</sup>	400	200	200	4	PI	1.2
			5/					•	Others	0.6

IDFxh1	01	1059711	Fd <sup>27</sup> Py	Lw <sup>1,10,13,32</sup>	1000	500	400	7	All	0.6
Okanagan	02*	1059710	Py Fd <sup>27</sup>		400	200	200	7	All	0.6
	03	1059712	Py Fd <sup>27</sup>		600	400	400	7	All	0.6
	04	1059713	Py Fd <sup>27</sup>		600	400	400	7	All	0.6
	05	1059714	Py Fd <sup>27</sup>		600	400	400	7	All	0.6
	06	1059715	Fd <sup>27</sup> Py	Lw <sup>1,10,13,32</sup>	1000	500	400	7	All	0.6
	07	1059716	Fd Py	$Lw^{1,10,13,32} Cw^{37}$	1000	500	400	7	All	0.6
	80	1059717	Fd <sup>1,32</sup> Sx Pl <sup>1</sup>	Cw <sup>37</sup>	1200	700	600	4	PI	1.0
									Others	0.8
IDFxh2	01	1059718	Fd <sup>27</sup> Py		1000	500	400	7	All	0.6
Okanagan	02	1059719	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
	03	1059720	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
	04	1059721	Py Fd <sup>27</sup>		600	400	400	7	All	0.6
	05	1059722	Fd <sup>27</sup> Py		1000	500	400	7	All	0.6
	06	1059723	Fd Py		1200	700	600	7	All	0.6
	07	1059724	Fd <sup>32</sup> Sx	Py <sup>32</sup> Cw <sup>32</sup>	1200	700	600	4	All	0.6
	80	1059725	Sx <sup>1</sup> Fd <sup>1,32</sup>	Pl <sup>1,23</sup>	1000	500	400	4	PI	0.8
									Others	0.6
MSdk	01,05	1059808	Fd <sup>32</sup> Lw <sup>32</sup> Pl Sx	BI	1200	700	600	4	PI, Lw	1.4
Columbia									Others	0.8
	03	1059809	Fd Lw Pl	Sx Bl	1000	500	400	4	PI, Lw	1.0
	0.4	4050040	5.11 DI	0. 51	4000	700	000		Others	0.6
	04	1059810	Fd Lw Pl	Sx Bl	1200	700	600	4	PI, Lw	1.4
	06	1059811	Sx Fd <sup>1,32</sup> Lw <sup>1,32</sup>	Pl <sup>1</sup> Bl	1200	700	600		Others PI, Lw	0.8 1.4
	00	1000011	JA 1 4 2.1	11 51	1200	700	000		Others	0.8
MSdm1	01	1059726	Pl Sx	BI Fd <sup>9,14,32</sup>	1200	700	600	7	PI, Lw	1.4
Okanagan			Lw <sup>9,14,32</sup>						Others	0.8
	02	1059727	Fd Pl Lw		600	400	400	7	PI, Lw	1.0
									Others	0.6
	03	1059728	PI Fd <sup>32</sup> Lw <sup>32</sup>	Sx <sup>10,13</sup>	1000	500	400	7	PI, Lw	1.0
									Others	0.6
	04	1059729	Fd <sup>14,32</sup> Lw <sup>14,32</sup> Pl	Sx <sup>10,13</sup>	1200	700	600	7	PI, Lw	1.4
				10.120.14.22					Others	8.0
	05	1059730	PI Sx	BI <sup>10,13</sup> Fd <sup>9,14,32</sup>	1200	700	600	4	PI, Lw	1.4
									Others	8.0
	06	1059731	Pl Sx	BI Fd <sup>9,14,32</sup> Lw <sup>9,14,32</sup>	1200	700	600	4	PI, Lw	1.4
									Others	0.8

MSdm1	07	1059732	Pl <sup>1</sup> Sx <sup>1</sup>	Bl <sup>1</sup>	1000	500	400	4	PI	1.0
(cont'd)									Others	0.6
MSdm2 Okanagan	01	1059733	PI Sx Fd <sup>9,14,32</sup>	BI <sup>10,13</sup> Lw <sup>14,32</sup>	1200	700	600	4	PI, Lw Others	1.4 0.8
	03	1059734	Fd <sup>9,14</sup> Pl	BI <sup>10,13</sup> Sx <sup>10,13</sup>	1000	500	400	4	PI	1.0
	04	1059735	PI Fd <sup>9,14,32</sup> Sx <sup>10,13</sup>	BI <sup>10,13</sup> Lw <sup>1432</sup>	1200	700	600	4	Others PI, Lw	0.6 1.4
			DI O = 19.14.32	21 2 32 14 32				_	Others	0.8
	05	1059736	PI Sx Fd <sup>9,14,32</sup>	BI Cw <sup>32</sup> Lw <sup>14,32</sup>	1200	700	600	4	PI, Lw Others	1.4 0.8
	06	1059737	PI Sx Fd <sup>9,14,32</sup>	ВІ	1200	700	600	4	PI, Lw	1.4
	07	1059738	PI Sx	ВІ	1000	500	400	4	Others Pl	0.8 1.4
									Others	0.8
MSxk	01	1059739	PI Sx <sup>10,13</sup> Fd <sup>9,14,32</sup>	BI <sup>10,13</sup>	1200	700	600	7	PI Others	1.4 0.8
Okanagan	02	1059740	PI Fd <sup>9,14</sup>	BI <sup>10,13</sup>	1000	500	400	7	PI	1.0
									Others	0.6
	05	1059741	PI Fd <sup>9,14</sup>	BI <sup>10,13</sup> Sx <sup>10,13</sup>	1000	500	400	7	PI	1.0
	00	4050740	PI Fd <sup>9,14,32</sup> Sx <sup>10,13</sup>	BI <sup>10,13</sup>	4000	700	222	_	Others	0.6
	06	1059742	PI Fa Sx Sx	BI,	1200	700	600	7	PI, Lw Others	1.4 0.8
	07	1059743	Pl Sx Fd <sup>9,14,32</sup>	BI <sup>10,13</sup>	1200	700	600	4	PI	1.4
									Others	8.0
	08	1059744	PI Sx Fd <sup>9,14,32</sup>	ВІ	1200	700	600	4	PI	1.4
									Others	8.0
	09	1059745	Pl <sup>1</sup> Sx <sup>1</sup>	Bl <sup>1</sup>	1000	500	400	4	PI	1.0
			D 27 E 127					_	Others	0.6
PPxh1	01	1059746	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
Okanagan	02*	1059747	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
	04	1059748	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
	05	1059749	Py <sup>27</sup> Fd <sup>27</sup>		400	200	200	7	All	0.6
	06	1059750	Fd Py <sup>27</sup>		600	400	400	7	All	0.6
	07	1059751	Fd Py	4.00	1000	500	400	7	All	0.6
	08	1059752	Fd <sup>1</sup> Sx <sup>1</sup>	Py <sup>1,32</sup>	1000	500	400	4	All	0.6

# Uneven-aged Stocking Standards\* -- Single-tree selection only¹ (all FDUs) and Intermediate Cutting Stocking Standards (Okanagan)

Note: This section applies to any Okanagan Harvest Authority areas approved prior to the effective date of FSP amendment #6 and all Columbia FDUs. See **Appendix J-2** for current Okanagan Uneven-aged Stocking Standards.

Target from	Layer**	Stoc	king***		Target from	Layer**	Stock	(ing***	
Table A standards		Target p	a MIN pa	MIN p	Table A standards		Targetpa	MINpa	MIN p
(stems/ha)		(	well-spaced/	'ha)	(stems/ha)		(w	/ell-spaced/	ha)
1200	1	600	300	250	800	1	300	150	150
	2	800	400	300		2	400	200	200
	3	1000	500	400		3	600	300	300
	4	1200	700	600		4	800	400	400
1000	1	400	200	200	600	1	300	150	150
	2	600	300	250		2	400	200	200
	3	800	400	300		3	500	300	300
	4	1000	500	400		4	600	400	400
900	1	400	200	200	400	1	200	100	100
	2	500	300	250		2	300	125	125
	3	700	400	300		3	300	150	150
	4	900	500	400		4	400	200	200

Regeneration date is **seven years**. Regeneration date can be met immediately following harvest if the residual stand has no significant damage or pest problems and meets minimum stocking standards. For intermediate cut, regeneration date is N/A

Free growing date for uneven aged stocking standards is the default date specified in Forest Planning and Practices Regulation, section 44(4) and section 97 (3)

Preferred and acceptable species, "Target from Table A standards", and minimum height at free growing are as specified in Table A by biogeoclimatic ecosystem classification (BEC) variant and site series.

#### \*\*Stand Layer Definition

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

<sup>\*\*\*</sup> MIN = minimum stocking pa - preferred and acceptable species p - preferred species

<sup>&</sup>lt;sup>1</sup>The practice of Single Tree Selection is as defined in the Silviculture Systems Guidebook (Apr 1995) and the Silviculture Systems Handbook for British Columbia (October 2001)

#### **Intermediate Cut, No Regeneration Objectives-Standards (Columbia)**

Minimum Crop Tree Basal Area Retained (M²/ha)	Standards ID #	Additional Criteria (all areas)
50 45 40 35 30 26 24 min for all other BEC zones 18 min for the MSdk, IDFdm2, ICHmk1, ICHmw1, ESSFdk BEC zones only	1059812 1059813 1059814 1059815 1059816 1059817 1059818	To meet the minimum BA standard - retained crop tree basal area must be comprised of merchantable trees (Pli 12.5 cm DBH, other species 17.5 cm DBH) that meet or exceed the minimum leave tree characteristics outlined below. To qualify as an IC a minimum of 40% of the stand's original BA must be retained or the minimum BA by BEC zone whichever is greater.  "No Regen" Obligation Window is early 1 year and late 4 years.  When reporting the Forest Cover Inventory for an intermediate Entry report the Total BA retained in the
15 min for beetle proofing. HDR does not apply	1059820	Inventory label and the Crop Tree BA in the Silviculture label

Preferred and acceptable species to be retained are as specified in Appendix A by biogeoclimatic ecosystem classification (BEC) site series.

#### Minimum leave tree characteristics:

#### Stands Age Class 6 and Younger:

Crop trees must meet limits defined in the Tree Wounding and Decay guidebook (dated Feb 97)—Long Term Retention Objective to be acceptable.

Crop trees of all species must have a height to diameter ratio (HDR) of 1.0 or less to be acceptable – except Pli which must have a HDR of 1.2 or less.

All trees must meet criteria defined in Appendix 10, Establishment to Free Growing Guidebook: Nelson Region - May 2000.

#### Stands Age Class 7 and Older:

Crop1 trees must meet the limits defined in the Cruising Manual (effective June 1, 2008) for tree classes 1, 2, 5, and 8.

Crop trees of all species must have a height to diameter ratio (HDR) of 1.0 or less to be acceptable – except Pli which must have a HDR of 1.2 or less.

All trees must meet criteria defined in Appendix 10, Establishment to Free Growing Guidebook: Nelson Region - May 2000.

#### Minimum Strata Size for Reforestation Obligations:

Any contiguous strata greater than one hectare, that as a result of harvesting have a basal area less than

18 m2 per ha for the MSdk, IDFdm2, ICHmk1, ICHmw1 and ESSFdk BEC zones, and 24 m2 for all other BEC zones shall be reforested as specified in Appendix A by BEC site series.

## Footnotes applicable to Appendix K for Columbia FDUs and Okanagan Harvest Authority areas approved prior to the effective date of FSP Amendment #6

	Footnote #	<u>Footnot e</u>	Footnot e	# Footnote
Conifer Tree Species	1	elevated microsites are preferred	#	Broadle af Management Constraints
"Ba" means amabilis fir;	9	recommended on southerly aspectsSSW to WSW	а	productive, reliable, and feasible regeneration option
"BI" means subalpine fir;	10	recommended on northerly aspectsNW to ENE	b	limited in productivity, reliability and/or feasibility
"Cw" means western red cedar;	13	recommended in upper elevations of biogeoclimatic unit		
"Fd" means Douglas-fir;	14	recommended in lower elevations of biogeoclimatic unit		
"Hm" means mountain hemlock;	23	restricted to max 20% of well-spaced P&A		
"Hw" means western hemlock;	27	partial canopy cover required for successful establishment		
"Lw" means western larch;	28	limited by moisture deficit		
"Pa" means whitebark pine;	31	risk of white pine blister rust		
"PI" means lodgepole pine;	32	limited by growing-season frosts		
"Pw" means white pine;	34	risk of snow damage		
"Py" means ponderosa pine;	37	risk of heart rots		
"Se" means Engelmann spruce;	51	severe risk of needle blight, snow press and bear damage;		
"Sw" means white spruce;		species is restricted to areas with proven PI performance*		
"Sx" means hybrid spruce or interior spruce;	55	Columbia - acceptable in sx-sm portions of site series		
"Sxw" means hybrid white spruce;	57	Columbia - Pw rust-resistant stock may be		
"Yc" means yellow cedar.		preferred to a max 50% of preferred and acceptable ws stems.		
	70	Restricted to a maximum of 20% of preferred and acceptable		
Broadle af Tree Species		well-spaced stems on northerly aspects.		
"Act" means black cottonwood;	71	Restricted to a maximum of 50% of preferred and		
acceptable "At" means trembling aspen;		well-spaced stems.		
"Ep" means common paper birch;	t	only applies to those portions of the site series that are		
		on the toe, depression or level ground (as per blue book)		
"Biogeoclimatic unit" or "BGC classification" means		* "Proven PI performance" means that PI is present in natural	stands withir	n 500 m of the site and has
been planted the zone, subzone, variant and site series de	scribed	in a reason ably comparable ecological area (i.e. site series and	elevation) al	nd has reached a free growing

status

in the most recent field guide published by the Ministry of Forests for the identification and interpretation of ecosystems, as applicable to a harvested area.

Where a Biogeoclimatic unit is listed twice in the Table, "Okanagan" applies to Harvest Authority areas located within Okanagan TSA, TFL 33, TFL 49 and TFL 59 that were approved prior to the effective date of FSP amendment #6. "Columbia" applies to FDUs located within Revelstoke TSA, Golden TSA, Cascadia TSA, TFL 55 and TFL 56.

"MIN or "Min" means minimum.

"p" means Preferred, "a" means Acceptable

with minimal losses from either needle blight, snow press and/or bear damage.