



Detailed Forest Management Plan Approval Decision

**Weyerhaeuser Company Ltd.
Pembina Forestlands
Drayton Valley, Alberta**

**Forest Management Agreement
#0500042**

Date: November 10, 2006

Effective: November 18, 2000

Approved by: Original Signed by

**D. (Doug) A. Sklar, RPF
Executive Director
Forest Management Branch
Forestry Division**

Executive Summary

The Weyerhaeuser – Drayton Valley forest management plan dated February 2006 is approved subject to the satisfactory completion of the Approval Conditions summarized below.

Approval Conditions

<i>Condition</i>	<i>Requirement</i>	<i>Approval Authority</i>	<i>Due Date</i>
<i>7.1</i>	<i>VOIT Table</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007</i>
<i>8.1</i>	<i>Spatial Harvest Sequence</i>	<i>Area Manager Senior Manager, FPS</i>	<i>January 31, 2007 See 17.1ii</i>
<i>9.1</i>	<i>Predicted Future Forest</i>	<i>Senior Manager, FPS</i>	<i>May 1, 2007</i>
<i>10.1</i>	<i>Structure Retention and Monitoring</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007</i>
<i>12.1</i>	<i>Industrial Timber Salvage</i>	<i>Senior Manager, TPARS</i>	<i>January 31, 2007</i>
<i>13.1</i>	<i>Public Involvement</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007</i>
<i>14.1</i>	<i>Alternative Regeneration Standards</i>	<i>Senior Manager, FOS</i>	<i>May 1, 2011</i>
<i>15.1</i>	<i>Secondary Volume Monitoring and Replacement</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007</i>
<i>16.1</i>	<i>FireSmart Strategy</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007 See 17.1ii</i>
<i>17.1</i>	<i>Forest Health</i>	<i>Senior Manager, FPS</i>	<i>January 31, 2007</i>
<i>18.1</i>	<i>Performance Monitoring</i>	<i>Senior Manager, FPS</i>	<i>Annually and November 30, 2011</i>
<i>21.0</i>	<i>Next Forest Management Plan</i>	<i>Executive Director</i>	<i>May 1, 2015</i>

Authorization

The Detailed Forest Management Plan for the Weyerhaeuser FMA area dated February 2006 is approved subject to the Approval Conditions being met and the Annual Allowable Cuts presented in this Approval Decision.

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Introduction

The approval of forest management plans is the mandate of the Executive Director of the Forest Management Branch (FMB), Forestry Division of the Department of Sustainable Resource Development (department). This Approval Decision documents the rationale, and conditions of approval for the Weyerhaeuser Company Ltd – Drayton Valley (Weyerhaeuser) Detailed Forest Management Plan (FMP) dated February 2006. This approval provides direction for the successful and efficient implementation of the FMP.

Weyerhaeuser regulated forestry professionals have prepared the FMP, and it has been reviewed by government professional staff (see Table 1). Professional validation indicates the FMP is accurate as well as practical and feasible and has been prepared with due diligence. I commend Weyerhaeuser and those people who have contributed to the FMP for their efforts to address the complex issues of forest management.

The conditions in this Approval Decision are consistent with the terms of the Forest Management Agreement (FMA) and failure by Weyerhaeuser to fulfill the direction provided in this Approval Decision shall place the Company in default of its FMA.

1.0 Government of Alberta Participants: Forest Management Plan Appraisal

The following Government of Alberta staff participated in the appraisal of the Weyerhaeuser FMP. Their comments and recommendations are addressed in this Approval Decision. I extend my thanks to the staff for their personal and professional commitment to the task.

Table 1. Government of Alberta Participants

Government Reviewers	Title	Registration	DFMP Component
Darren Aitkin, RPF	Growth & Yield Forester	CAPF # 662	Growth & Yield
Jim Allen	Wildlife Biologist		All Chapters
Jamie Bruha, RPF	Senior Operations Forester	CAPF # 419	Ground Rules and Plan Implications
Bert Ciesielski, RPF	Area Forester	CAPF # 366	All Chapters
Dave Coish, RPF	Forest Management Planning Forester	CAPF # 371	All Chapters
Eric Damkjar	Cultural Land Use Analyst, Archaeology and History		Chapter 2 & 5
Grant Klappstein, RPF	Growth & Yield Forester	CAPF# 768	Components of Timber Supply
Dan Lux	Forest Health Officer SW Region		Chapters 3, 5 & 6; spatial harvest sequence
Dave Morgan, RPF	Manager, Biometrics Unit	CAPF # 434	Chapter 6; 4 & Appendices
Daryl Price, RPF	Senior Manager, Resource Analysis Section	CAPF # 82	Chapter 4 & Appendices
Marty O'Byrne, RPF	Provincial Silviculture Specialist	CAPF # 118	All Chapters
John Stadt, RPBio	Forest Ecology Specialist	ASPB	Appendix 6-3, 6-6
Doug Schultz, RPF	Senior Manager, Timber Production, Auditing & Revenue Section	CAPF # 215	Chapter 6
Robert Stokes, RPF	Senior Manager, Forest Planning Section	CAPF # 500	All Chapters
Bev Wilson, RPF	Senior Timber Supply Analyst	CAPF # 391	Chapter 4 and appendices

CAPF – College of Alberta Professional Foresters
ASPB – Alberta Society of Professional Biologists

2.0 Forest Management Area

The area under consideration is the Forest Management Agreement area of Weyerhaeuser – Drayton Valley, FMA # 0500042 allocated to the Company through Order-in-Council 514/2005, dated November 16, 2005. The FMA area is within Forest Management Unit (FMU) R12.

The FMA is located in central Alberta (south and southwest of Drayton Valley), and spans the Lower Foothills and Upper Foothills natural sub-regions, with small portions of the Sub-Alpine, Alpine, and the Dry Mixedwood natural sub-regions. Chapter 1 of the FMP, the *General Description of the Sustained Yield Unit* describes the FMA in greater detail.

3.0 FMP Background

The original FMA required Weyerhaeuser to submit a Detailed Forest Management Plan by January 31, 2001. The Company submitted a FMP by this date but that plan did not meet department standards and was not approved. Since then, FMA boundary changes; quota rationalization; FMU amalgamation; and Company restructuring contributed to extended FMP re-submission delays. Several extensions were granted with the latest being to September 30, 2006.

Weyerhaeuser submitted its FMP on February 10, 2006 at which time the government review began. The department has identified a number of items to be addressed during implementation of the FMP. These are documented and comprise the discussion and conditions of FMP approval contained herein.

4.0 Public Involvement

FMA Sections 10(3) and 10(4) require Weyerhaeuser to conduct an acceptable public and First Nations consultation process. FMP Objectives 5.1 through 5.6; their associated strategies; and the Weyerhaeuser Public Involvement Plan describe work in this regard. To solicit feedback and facilitate public awareness of its forest management activities, Weyerhaeuser included a wide range of stakeholders and department staff on its Forest Advisory Committee. The focus of this group was the FMP and forest operations in general.

Weyerhaeuser is expected to enhance its effort to conduct meaningful public involvement throughout the FMP implementation. Meaningful consultation is characterized by sincere efforts to help stakeholders understand the implications of the plans, sincere efforts to make the plans available at a time and in a manner sufficient for stakeholders to read and study them, and sincere and accurate explanations of how the interests and concerns of the stakeholders have been addressed.

Requirements regarding the public involvement program are further discussed in the Approval Conditions section of this document.

5.0 Research

Weyerhaeuser's leadership and participation in forestry research is noted in Chapter 8 of the FMP. The Company's efforts are significant. However, there is scant mention in the FMP of how research results were used to formulate and support the objectives and strategies presented. A more specific discussion of research integration is warranted.

I encourage the Company to continue collaborating with the scientific community but also to increase its efforts to ensure there is a strong linkage to the operational forest planner and manager to ensure that current knowledge is used in planning and operational practice.

6.0 Approval Scope

This Approval Decision relates to the Weyerhaeuser FMP dated February 10, 2006. All coniferous and deciduous operators within FMU R12 shall conduct their activities in accordance with the FMP and the Approval Conditions.

Weyerhaeuser shall meet the requirements (dates and content) of the Approval Conditions unless the Executive Director, Forest Management Branch, agrees to alternate requirements in writing. Weyerhaeuser will execute meaningful dialogue with the designated department decision-maker during the development of the required submissions. Where deadlines for submissions are specified, Weyerhaeuser shall submit the documents at least one month prior to the date in order to allow department staff sufficient time for review.

In the Approval Decision **bold text** identifies specific timelines, requirements and the department manager responsible for the review. Non-bolded text provides the rationale for the condition and specific considerations to be addressed in meeting the condition.

In the event of an inconsistency between the FMP and existing, new, or revised legislation or regulation, the legislation or regulation shall apply.

7.0 Value, Objective, Indicator and Target (VOIT) matrix

FMPs prepared by industry are required to identify performance standards, which are described by Values, Objectives, Indicators and Targets (VOIT). These VOITs must be addressed in detail in the FMP.

Weyerhaeuser has identified Goals (which equate to Values) and Objectives in the FMP, but their respective indicators and targets have not been identified. These integral components of

FMPs are necessary for performance monitoring, accomplishment reporting and gauging the success of the FMP. The plan must be amended in the following way.

Approval Condition 7.1 - VOIT Table

- i. By January 31, 2007, Weyerhaeuser shall develop a VOIT table, consistent with the Alberta Forest Management Planning Standard - Annex 4, using the existing FMP goals, objectives and strategies as a starting point. The work must be completed to the satisfaction of the Senior Manager, Forest Planning Section.**

8.0 Spatial Harvest Sequence

The spatial (mapped) harvest sequence (SHS) is the most important output of the FMP as it implements the strategies the companies must follow to achieve the predicted future forest condition. While dependent on many factors, the future forest condition is strongly influenced by harvest patterns, intensity and schedules. It presents spatially and temporally how the integration of environmental, economic, and social values will be achieved on the FMA. Adherence to a properly planned harvest sequence is imperative to achieving the forecasted future forest.

Weyerhaeuser commits to tracking variance, but there is insufficient detail as to how this will be carried out.

Approval Condition 8.1 – Spatial Harvest Sequence

- i. Weyerhaeuser must follow the mapped 10-year harvest sequence as presented in the FMP (or as revised per Approval Condition 17.1).**
- ii. To address operational planning concerns, all timber disposition holders are authorized to modify the SHS by deleting no more than 20% of the total sequenced area in each Landscape Management Unit (LMU) by decade, while harvesting no more than 100% of the total area within the SHS by LMU, by decade.**
- iii. Preference should be given to selecting stands from the second 10-year period of the SHS (years 16-25) when replacing deleted stands (from ii above). Where this is not feasible, replacements may be from any other stands identified in the approved net landbase of the FMP, with the following exception:**
 - a. Late seral stage stands may be selected provided that the late seral stage targets are still met.**
- iv. Where timber operators exceed the variance described in (ii), the Area Manager, may require the completion of a compartment (LMU) assessment**

and the Senior Manager, Forest Planning Section may recommend the adjustment of the approved annual allowable cut (AAC) to reflect the impact of the variance.

- v. The department requires the variance from the SHS to be reported annually, and the 5-year Stewardship Report to analyze the variance from the SHS.**
- vi. Following the achievement of Approval Condition 17.1, the department will generally not request a modification of the approved harvest sequence for the first 15 years of the planning period unless required by a change in legislation or a policy approved by the Minister.**

9.0 Predicted Future Forest

The Timber Supply Analysis contains a description of the future forest that is based on a wildfire dominated natural disturbance regime. In defining this future forest, Weyerhaeuser uses a coarse-filter approach to maintaining species diversity. A fine-filter assessment of selected feature species was not provided.

Although the coarse filter approach is deemed to be effective for a majority of wildlife, fine filter assessments are used as checks against the coarse-filter approach. This can be accomplished using predictions of habitat availability for selected species throughout the planning period. The objective is to ensure that habitat for the species selected does not disappear through time.

Approval Condition 9.1 – Predicted Future forest

- i. By May 1, 2007, Weyerhaeuser shall forecast habitat availability for selected wildlife species and report the results. The analyses shall be submitted to the Senior Manager, Forest Planning Section and appended to the Preferred Forest Management Scenario of the FMP. The list of wildlife species shall be determined in consultation with the Fish and Wildlife Program Manager and the Senior Manager, Forest Planning Section.**
- ii. To address FMP implementation and enable variance analysis for Stewardship Reporting, the department will assume the levels of interior older forest, seral stages, and patch size distribution to be targets the companies will achieve. These shall be documented in the VOIT table developed to meet Approval Condition 7.1.**

10.0 Structure Retention in Harvested Areas

Throughout the province, forest industries practice green tree retention within harvested areas to create residual (post-harvest) stand structure. The department has approved detailed forest management plans that proposed structure retention targets ranging between 1% and 15% of the merchantable volume, with the view that the result will be a variety of forest conditions that when assessed, will enable a refinement of future targets. Weyerhaeuser's strategy to maintain an average of 5% of merchantable volume within stands falls within this range.

The FMP indicates that Weyerhaeuser has reduced the proposed harvest levels by a "flat-rate" volume reduction of 5% to account for merchantable volume retained for residual structure in harvested areas. This strategy is acceptable but needs to be supported by a program to monitor and report actual retained volumes for timber harvest production reconciliation for all operators.

Approval Condition 10.1 – Structure Retention and Monitoring

- i. All operators in FMU R12 will plan and carry out their operations to achieve the average structure retention target of 5% of the coniferous and 5% of the deciduous AAC. Species composition and timber profile representative of the original stand conditions shall be retained to achieve acceptable biodiversity results. Non-merchantable timber may also be used where it occurs in sufficient quantity, pattern and profile to supplement the desired condition.**
- ii. By January 31, 2007, Weyerhaeuser must develop standard operating procedures acceptable to the Senior Manager, Forest Planning Section for annually quantifying the structure (merchantable and non-merchantable) retained on harvested areas. The Stand Level Retention Monitoring Report shall report the results and analysis of the structure retention monitoring program in the Stewardship Report.**
- iii. Merchantable volume retained after May 1, 2006 for structure that exceeds the 5% target shall be chargeable as AAC production and shall be reconciled every 5 years at the end of each cut control period.**

11.0 Silviculture Strategy

Defining the silviculture practices that will be used to establish managed stands is important. FMPs must present the reforestation strategies to be used to achieve the timber yields from the regenerated stands. Silvicultural practices must be appropriate for the local range of conditions.

The Silviculture table presented in FMP (Appendix 6-1) is a reasonable summary of the silviculture tactics to be used to regenerate the future forest. These prescriptions are to be applied by all timber operators operating in the FMA.

12.0 Industrial Timber Salvage

Accounting for all sources of timber volume drain is critical to ensuring the approved AACs are sustainable. In Alberta, non-forestry industrial operations contribute to this drain and must be included in the total.

Weyerhaeuser's salvage strategy does not adequately address the following:

1. Accounting for salvaged and unsalvaged merchantable timber;
2. Charging timber volumes proportionally to timber dispositions;
3. Weakly defined tracking and reporting systems.

Approval Condition 12.1 – Industrial Timber Salvage

- i. All timber depleted (salvaged and non-salvaged merchantable timber) by non-forestry operations shall be reported as production for cut control purposes, except for low impact seismic programs where the average line width is less than 2.5 metres.**
- ii. The volumes used shall be those from the published timber damage assessment tables or as otherwise agreed by the Senior Manager, Timber Production, Auditing and Revenue Section.**
- iii. The volumes shall be charged to the FMA by cover group (C, CD, DC, D).**
- iv. By January 31, 2007, in consultation with quota operators, Weyerhaeuser shall implement a salvage timber volume tracking and reporting system acceptable to the Senior Manager, Timber Production, Auditing and Revenue Section.**

13.0 Public Involvement

Weyerhaeuser must demonstrate that meaningful consultation has been carried out in an open, inclusive and effective manner, for the general public, stakeholders, the Forest Advisory Committee (FAC) and First Nations. Specific goals, objectives and strategies have been provided that directed consultation activities, but the FMP does not provide evidence of the actual activities carried out or a listing of the specific concerns raised and how they have been addressed.

Approval Condition 13.1 – Public Involvement

- i. By January 31, 2007, Weyerhaeuser shall provide the following information to the Senior Manager, Forest Planning Section.**
 - a. A report summarizing the public involvement activities (with dates) completed by Weyerhaeuser during the development of the FMP including a specific reference to the public review of the completed FMP submitted for approval.**
 - b. A summary of comments received from each public involvement activity including those received during review of the completed FMP. The list shall identify how Weyerhaeuser addressed each comment and, where possible, identify specific references in the FMP.**
- ii. On an on-going basis, Weyerhaeuser shall keep complete and accurate written records of its consultations with the public, stakeholders, FAC and First Nations (i.e., comments received, and how concerns identified have been addressed and incorporated into forest management planning). This information shall be reported in the Stewardship Report and future FMPs.**
- iii. When Alberta’s policy for First Nations consultation is complete, the Company shall work with the department in identifying necessary action plans, and where required, sections within the FMP shall be amended.**

14.0 Alternative Regeneration Standards

The Regeneration Survey Manual establishes provincial reforestation performance standards (provincial survey standard) that are intended to create fully stocked natural stand yields. These standards shall be used until alternative regeneration performance standards are developed that relate to each yield projection used in the FMP.

Approval Condition 14.1 – Alternative Regeneration Standards

- i. By May 1, 2011, Weyerhaeuser must be using alternative regeneration performance standards acceptable to the Senior Manager, Operations Section.**

15.0 Secondary Volume Monitoring and Replacement

The coniferous and deciduous AACs include both primary and secondary (incidental) volumes. The Provincial Reforestation Standards allow for incidental volumes of secondary species to contribute to the reforestation success of the harvest area. To ensure appropriate volumes are produced at maturity, a management strategy specifically addressing secondary volume replacement is necessary. Weyerhaeuser is developing alternative reforestation

standards that will encompass incidental replacement, but in the interim, the FMP offers no guidance on this subject.

Approval Condition 15.1 - Secondary Volume Monitoring and Replacement

- i. By January 31, 2007, Weyerhaeuser shall develop a silviculture strategy to ensure appropriate stocking levels of secondary coniferous and deciduous species are replaced on harvested areas.**
- ii. The strategy shall be acceptable to the Senior Manager, Forest Planning Section.**

16.0 FireSmart Strategy

Weyerhaeuser has created a Fire Behaviour Prediction map as well as Crown Susceptibility Ratings for the management area. This is the first step in determining the treatments necessary to reduce fire threat for the planning period but more work is necessary. I believe that FireSmart planning can be integrated into the re-planning work to address Mountain Pine Beetle susceptibility reduction.

Decision Condition 16.1 – FireSmart Strategy

- i. Weyerhaeuser will develop a plan for reducing wildfire threat on the management area in consultation with the Forestry Manager of the Clearwater Area. The plan must meet the approval of the Senior Manager, Forest Planning Section and be included in the revised SHS being prepared for MPB planning.**

17.0 Forest Health

Weyerhaeuser’s FMP contains an objective and several strategies for maintaining a healthy forest. The FMP infers the department is primarily responsible for forest health rather than communicating the shared responsibility. This does not align with the Alberta Forest Health Strategy and must be re-visited.

Approval Condition 17.1 – Forest Health

- i. Weyerhaeuser’s forest health activities shall adhere to the “*Alberta Forest Health Strategy and the Shared Roles and Responsibilities between SRD and the Forest Industry*”. The FMP shall be revised to acknowledge this shared commitment.**

ii. **By January 31, 2007, Weyerhaeuser shall analyze the harvest sequence in relation the requirements of the *Mountain Pine Beetle Action Plan for Alberta* and provide a report to the Senior Manager, Forest Planning Section.**

a. **Weyerhaeuser shall re-sequence as necessary to comply with the requirements of the *Interpretive Bulletin - Planning Mountain Pine Beetle Response Operations*.**

b. **Weyerhaeuser shall schedule planning activities to achieve the mountain pine beetle susceptibility reduction targets identified in the Prevention (Pine) Strategy of the *Mountain Pine Beetle Action Plan for Alberta* and the *Interpretive Bulletin - Planning Mountain Pine Beetle Response Operations*.**

18.0 Performance Monitoring

Annual Reports and 5-year Stewardship Reports are used to monitor the successful implementation of FMPs.

Approval Condition 18.1 – Performance Monitoring

- i.) **Weyerhaeuser shall submit Annual Reports and Stewardship Reports reporting on all objectives and associated indicators (including 2.2(a)) as described in FMP Chapter 7, Section 7.5. Where variance exists, the analysis shall discuss the reason for the variance and the Company’s corrective action taken or proposed.**
- ii.) **A Stewardship Report acceptable to the Senior Manager, Forest Planning Section shall be submitted by November 30, 2011.**

19.0 Timber Quotas and Timber Production Control

The approval of the AAC effective date (November 18, 2000) for FMU R12 required that administrative adjustments be made to the timber production control records. The Hansen and Tall Pine Timber quotas and the Weyerhaeuser FMA are affected.

The quadrant (quota) and periodic (FMA) allowable cuts have been adjusted as of November 18, 2000, the effective date of the new AAC. All volume reconciliations (positive or negative) of the quadrant or periodic allowable cuts shall be made in subsequent quadrants. Refer to table 3.1 Quadrant and Periodic Allowable Cuts for 2000 to 2006.

Financial penalties will not be assessed against quota holders in cases where the department’s administrative adjustments result in quota timber production to exceed 110% of the quadrant allowable cut.

20.0 Approved Annual Allowable Cuts

Refer to Tables 2.1, and 2.2: Historical Allocations and Approved Annual Allowable Cuts.

Refer to Tables 3.1, 3.2 and 3.3: Quadrant and Periodic Allowable Cuts.

21.0 Authorization

The Detailed Forest Management Plan for the Weyerhaeuser – Drayton Valley FMA area dated February 10, 2006 is approved subject to the Approval Conditions being met, and the Annual Allowable Cuts presented in this Approval Decision. The Annual Allowable Cuts are effective beginning November 18, 2000.

The next DFMP shall be received by the department for approval prior to May 1, 2015.

22.0 Regulated Forestry Professional Validation of Allocation Tables

The following regulated forestry professionals agree and validate that the following tables;

- i. 2.1 Historical Allocations for FMU R12,
- ii. 2.2 Allocations and Approved Annual Allowable Cuts for FMU R12,
- iii. 3.1 FMA Periodic Allowable and Quadrant Cuts for 2000 to 2006,
- iv. 3.2 Quota Periodic Allowable and Quadrant Cuts for 1996 to 2006, and
- v. 3.3 Quota Periodic Allowable and Quadrant Cuts for 2006 to 2011,

are complete and accurate and document the timber dispositions, allocations, and approved harvest levels for FMU R12.

Original signed and sealed by:

Robert W. Stokes, RPF 500 - College of Alberta Professional Foresters

Janet M. B. Schilf, RPF 240 - College of Alberta Professional Foresters

Albert Ciesielski, RPF 366 - College of Alberta Professional Foresters

Douglas Schultz, RPF 215 - College of Alberta Professional Foresters

Daryl Price, RPF, 82 - College of Alberta Professional Foresters

Paul Scott, RPF, 398 - College of Alberta Professional Foresters

Robert Winship, RPF 320 - College of Alberta Professional Foresters

David G. Coish, RPF 371 - College of Alberta Professional Foresters

Table 2.1 Historical Allocations for FMU R12

Company Name	Disposition #	Coniferous Timber			Deciduous Timber		
		Allocation	AAC ¹ (m ³ /yr)	Incidental AAC ¹ (m ³ /yr)	Allocation	AAC ² (m ³ /yr)	Incidental AAC ² (m ³ /yr)
Weyerhaeuser	FMA 8500023	48.47%	178,175	38,245	93.21%	244,032	10,930
Weyerhaeuser	CTQR020006	8.70%	32,000				
Weyerhaeuser	CTQR020009Y	5.52%	20,273				
Weyerhaeuser	CTQR020009U	22.69%	83,399				
Weyerhaeuser	DTARU20001				5.85%	15,315	
Weyerhaeuser	CTQR050008	2.11%	7,753				
Tall Pine Timber Co. Ltd.	CTQR010004	5.98%	22,000				
Tall Pine Timber Co. Ltd.	CTQR010005	1.24%	4,550				
Tall Pine Timber Co. Ltd.	CTQR040011	1.10%	4,051				
Dale Hansen	CTQR020007	2.46%	9,053				
Lodgepole Community Timber Program	CTP	1.10%	4,035				
Miscellaneous Timber Use	LTP	0.63%	2,328	386	0.94%	2,465	110
Total		100.00%	367,617	38,631	100%	261,812	11,040

¹ Coniferous utilization standard is 15/11/30

² Deciduous utilization standard is 15/10/30

AC
 PA BW
 DL

Table 2.2: Allocations and Approved Annual Allowable Cuts for FMU R12¹

Company Name	Disposition #	Land Base Stand Type/Source	Coniferous Timber		Deciduous Timber	
			FMU Allocation (%)	AAC ² (m ³ /yr)	FMU Allocation (%)	AAC ³ (m ³ /yr)
Weyerhaeuser	FMA0500042	C, CD, DC, & D	86.05%	421,025	91.94%	263,090
Weyerhaeuser	CTQR120005	C, CD, DC, & D	4.22%	20,669		
Weyerhaeuser	DTAR120001	C, CD, DC, & D			7.13%	20,402
Dale Hansen	CTQR120001 (R1 Q7)	C & CD	1.76%	8,600		
Tall Pine Timber Co. Ltd.	CTQR120002 (R1 Q4)	C & CD	3.23%	15,806		
Tall Pine Timber Co. Ltd.	CTQR120003 (R1 Q5)	C & CD	0.67%	3,269		
Tall Pine Timber Co. Ltd.	CTQR12004 (R4 Q11)	C & CD	2.30%	11,254		
Lodgepole Community Timber Program	CTP	C & CD	0.82%	4,000 (fixed volume)		
Miscellaneous Timber Use	LTP	C, CD, DC, & D	0.95%	4,669	0.93%	2,657
Total			100.00%	489,292	100.00%	286,149

¹ Period beginning November 18, 2000

² Coniferous utilization standard is 15/11/15

³ Deciduous utilization standard is 15/10/15

Table 3.1 FMA Periodic Allowable and Quadrant Cuts for 2000 to 2006

Company Name	Disposition Number	FMU	Periodic/Quadrant Cut Control Period	Approved Coniferous Quadrant Reconciliation Volume (m ³)	Approved Deciduous Quadrant Reconciliation Volume (m ³)	Coniferous Periodic/Quadrant Allowable Cut (m ³)	Deciduous Periodic/Quadrant Allowable Cut (m ³)	Comments
Weyerhaeuser	CTQR020006	R2	May 1, 1996 to November 17, 2000			145,622		QAAC : 4.550684931 years x 32,000 m ³ /yr = 145,622 m ³ . Quota production from Dec 2000 to April 2001 transferred to FMA8500023. Total production assessed against CTQ to November 17, 2000 was 96,689 m ³ .
Weyerhaeuser	CTQR020009	R2	May 1, 1996 to November 17, 2000	1,949		473,728		QAAC : 4.550684931 years x 103,672 m ³ /yr + 1,949 m ³ from previous quadrant = 473,728 m ³ . Quota production from Dec 2000 to April 2001 transferred to FMA8500023. Total production assessed against CTQ to November 17, 2000 was 367,010 m ³ .
Weyerhaeuser	CTQR050008	R5	May 1, 1996 to November 17, 2000	-1,664		33,617		QAAC : 4.550684931 years x 7,753 m ³ /yr -1,664 m ³ from previous quadrant = 33,617 m ³ . Quota production from Dec 2000 to April 2001 transferred to FMA8500023. Total production assessed against CTQ to November 17, 2000 was 25,570 m ³ .
Weyerhaeuser	DTAR020001	R2	May 1, 1996 to April 30, 2001		8,918		203,708	QAAC : 5 years x 38,958 m ³ /yr + 8,918 = 203,708 m ³ . Quota production from May 1996 to April 2001 resulted in underproduction of 104,220 m ³ . DTA split 60.69% in Sundre Forest Products Ltd. FMA under DTAR100002 and 39.31% rolled into Weyerhaeuser FMA. Underproduction allocated to DTAR100002 is 63,251 m ³ and 40,969 m ³ to FMA8500023.

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Table 3.1 FMA Periodic Allowable and Quadrant Cuts for 2000 to 2006 (cont'd)

Company Name	Disposition Number	FMU	Periodic/Quadrant Cut Control Period	Approved Coniferous Quadrant Reconciliation Volume (m ³)	Approved Deciduous Quadrant Reconciliation Volume (m ³)	Coniferous Periodic/Quadrant Allowable Cut (m ³)	Deciduous Periodic/Quadrant Allowable Cut (m ³)	Comments
Weyerhaeuser	FMA8500023	R12	November 18, 2000 to November 17, 2005	13,789	40,969	2,118,914	1,356,419	<p>Coniferous PAC : 421,025 m³ x 5 yrs +(48,933 m³ + 106,718 m³ + 8,047 m³ -149,909 m³ (overcut)). Note the numbers in brackets are the AAC reconciliation tied to the cancellation of CTQR020006; CTQR020009 and CTQR050008 respectively, effective Nov. 17, 2000. Total audited production 2,014,752 m³ + 3,985 m³ + 153,301 m³ + 9,366 m³ = 2,181,404 m³</p> <p>Deciduous PAC : 263,090 m³ x 5 years + 40,969 m³. Note: The 40,969 m³ is the AAC reconciliation tied to the cancellation of DTAR020001. Total audited production 1,198,016 m³.</p>
Weyerhaeuser	FMA0500042	R12	November 18, 2005 to April 30, 2006	-62,490	158,403	126,683	276,613	<p>Coniferous PAC : 421,025 m³ x .449315068 yrs - 62,490 m³. Unaudited production to April 2006 was 208,587 m³ for an overcut volume of 81,904 m³. Deciduous PAC : 263,090 m³ x .449315068 years + 158,403 m³. Unaudited production to April 2006 was 122,372 m³ for a carryover volume of 154,241 m³.</p>

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Table 3.2 Quota Periodic Allowable and Quadrant Cuts for 1996 to 2006

Company Name	Disposition Number	FMU	Periodic/Quadrant Cut Control Period	Approved Coniferous Quadrant Reconciliation Volume (m ³)	Approved Deciduous Quadrant Reconciliation Volume (m ³)	Coniferous Periodic/Quadrant Allowable Cut (m ³)	Deciduous Periodic/Quadrant Allowable Cut (m ³)	Comments
Dale Hansen	CTQR020007	R2	May 1, 1996 to April 30, 2001			45,061		QAAC : May 1, 1996 to Nov 17, 2000 @ 9,053 m ³ /yr + Nov 18, 2000 to April 30, 2001 @ 8,600 m ³ /yr. Total audited production 42,547 m ³ for a carryover volume of 2,514 m ³ . A non-competitive CTP was issued for 3,658 m ³ based on the old AAC and a total volume produced was 4,065 m ³ . Excess production of 1,551 m ³ to be assessed against CTQR120001.
Dale Hansen	CTQR020007	R2	May 1, 2001 to April 30, 2004			25,800		QAAC : 8,600 m ³ x 3 years. Total audited production was 17,620 m ³ for a carryover volume of 8,180 m ³ . Quota cancelled and replaced with CTQR120001.
Dale Hansen	CTQR120001	R12	May 1, 2004 to April 30, 2006	8,180		25,380		QAAC : 8,600 m ³ x 2 years + 8,180 m ³ . Total audited production was 31,239 m ³ for an over production of 5,859 m ³ .
Tall Pine Timber Co. Ltd.	CTQR010004	R1	May 1, 1996 to April 30, 2001			107,217		QAAC : May 1, 1996 to Nov 17, 2000 @ 22,000 m ³ /yr + Nov 18, 2000 to April 30, 2001 @ 15,806 m ³ /yr. Total audited production 83,853 m ³ for a carryover volume of 23,364 m ³ .
Tall Pine Timber Co. Ltd	CTQR010004	R1	May 1, 2001 to April 30, 2004	23,364		70,782		QAAC : 15,806 m ³ x 3 years + 23,364 m ³ . Total audited production was 47,252 m ³ for a carryover volume of 23,530 m ³ . Quota cancelled and replaced with CTQR120002.
Tall Pine Timber Co. Ltd	CTQR120002	R12	May 1, 2004 to April 30, 2006	23,530		55,142		QAAC : 15,806 m ³ x 2 years + 23,530 m ³ . Total unaudited production was 49,733 m ³ for a carryover volume of 5,409 m ³ .

Table 3.2 Quota Periodic Allowable and Quadrant Cuts for 1996 to 2006 (cont'd)

Company Name	Disposition Number	FMU	Periodic/Quadrant Cut Control Period	Approved Coniferous Quadrant Reconciliation Volume (m ³)	Approved Deciduous Quadrant Reconciliation Volume (m ³)	Coniferous Periodic/Quadrant Allowable Cut (m ³)	Deciduous Periodic/Quadrant Allowable Cut (m ³)	Comments
Tall Pine Timber Co. Ltd	CTQR010005	R1	May 1, 1996 to April 30, 2001			22,174		QAAC : May 1, 1996 to Nov 17, 2000 @ 4,550 m ³ /yr + Nov 18, 2000 to April 30, 2001 @ 3,269 m ³ /yr. Total audited production 14,938 m ³ for a carryover volume of 7,236 m ³ . An non-competitive CTP was issued for 7,812 m ³ and a total volume produced was 7,621 m ³ . Excess CTP production of 385 m ³ to be applied to the next quadrant for CTQR010005.
Tall Pine Timber Co. Ltd	CTQR010005	R1	May 1, 2001 to April 30, 2004	-385		9,422		QAAC : 3,269 m ³ x 3 years - 385 m ³ . Total audited production was 17,946 m ³ for an over production of 8,524 m ³ . Quota cancelled and replaced with CTQR120003.
Tall Pine Timber Co. Ltd	CTQR120003	R12	May 1, 2004 to April 30, 2006	-8,524		-1,986		QAAC : 3,269 m ³ x 2 years - 8,524 m ³ . No production for this quadrant.
Tall Pine Timber Co. Ltd	CTQR040011	R4	May 1, 1996 to April 30, 2001			23,491		QAAC : May 1, 1996 to Nov 17, 2000 @ 4,051 m ³ /yr + Nov 18, 2000 to April 30, 2001 @ 11,254 m ³ /yr. Total audited production 21,070 m ³ for a carryover volume of 2,421 m ³ .
Tall Pine Timber Co. Ltd	CTQR040011	R4	May 1, 2001 to April 30, 2004	2,421		36,183		QAAC : 11,254 m ³ x 3 years + 2,421. Total audited production was 8,095 m ³ for a carryover volume of 28,088 m ³ . Quota cancelled and replaced with CTQR120004.
Tall Pine Timber Co. Ltd	CTQR120004	R12	May 1, 2004 to April 30, 2006	28,088		50,596		QAAC : 11,254 m ³ x 2 years + 28,088 m ³ . Total unaudited production of 8,418 m ³ for a carryover volume of 42,178 m ³ .

Table 3.3 Quota Periodic Allowable and Quadrant Cuts for 2006 to 2011

Company Name	Disposition Number	FMU	Periodic/Quadrant Cut Control Period	Approved Coniferous Quadrant Reconciliation Volume (m ³)	Approved Deciduous Quadrant Reconciliation Volume (m ³)	Coniferous Periodic/Quadrant Allowable Cut (m ³)	Deciduous Periodic/Quadrant Allowable Cut (m ³)	Comments
Weyerhaeuser	FMA0500042	R12	May 1, 2006 to April 30, 2011	-81,904	154,241	2,023,221	1,469,691	Coniferous PAC : 421,025 m ³ x 5 yrs - 81,904 m ³ . Deciduous PAC : 263,090 m ³ x 5 yrs + 154,241 m ³ .
Weyerhaeuser	CTQR120005	R12	May 1, 2006 to April 30, 2011	112,625		215,970		Assuming 5 yrs x 20,669 m ³ /yr + ((Nov 18, 2000 to April 30, 2006) 20,669 * 5.448993 = 112,625 m ³)
Weyerhaeuser	DTAR120001	R12	May 1, 2006 to April 30, 2011		111,170		213,180	Assuming 5 yrs. x 20,402 m ³ /yr. +((Nov 18, 2000 to April 30, 2006) 20,402 * 5.448993 = 111,170 m ³)
Dale Hansen	CTQR120001	R12	May 1, 2006 to April 30, 2011	-5,859		37,141		Assuming 5 yrs. x 8,600 m ³ /yr - 5,859 m ³ .
Tall Pine Timber Co. Ltd	CTQR120002	R12	May 1, 2006 to April 30, 2011	5,409		84,439		Assuming 5 yrs. x 15,806 m ³ /yr + 5,409 m ³ .
Tall Pine Timber Co. Ltd	CTQR120003	R12	May 1, 2006 to April 30, 2011	-1,986		14,359		Assuming 5 yrs. x 3,269 m ³ /yr - 1,986 m ³ .
Tall Pine Timber Co. Ltd	CTQR120004	R12	May 1, 2006 to April 30, 2011	42,178		98,448		Assuming 5 yrs. x 11,254 m ³ /yr + 42,178 m ³ .
Lodgepole Community Timber Program	CTP	R12	May 1, 2006 to April 30, 2011			20,000		Assuming 5 yrs. x 4,000 m ³ /yr m ³ (coniferous).
Local Timber Use	LTP	R12	May 1, 2006 to April 30, 2011			23,345	13,285	Assuming 5 yrs. X 4,669 m ³ /yr (coniferous) Assuming 5 yrs. X 2,657 m ³ /yr (deciduous)
Total						2,516,923	1,696,156	