

**APPENDIX I(b)**

**History of Selkirk Tree Farm Licence 55**

# **HISTORY OF SELKIRK TREE FARM 55**

## **INTRODUCTION**

TFL 55 is a relatively new tree farm licence only recently awarded in June 1993. Prior to that, the area had been the north block of TFL 23. As TFL 55 was an integral part of TFL 23 for the past 37 years, some of the early history of TFL 23 is related below.

### **EARLY DEVELOPMENT**

The first Europeans arrived in the Arrow Lakes area via the Columbia River in the 1830's, and consisted of explorers and fur-traders. The Hudson's Bay Company at Fosthall established the first trading post in the area, which is 12 miles north of Nakusp on the Upper Arrow Lake.

In 1860, gold was discovered in the Big Bend of the Columbia River, starting a gold rush in which 10,000 placer miners were said to have removed four to five million dollars worth of gold by 1865. With the completion of the Canadian Pacific Railway in 1885, settlement and homesteading of the district began, and the community of Revelstoke started to grow. As local markets for produce proved unreliable, growing fruit and farming for a living became unviable. Many "stump ranches" were also abandoned by settlers to work in the mines and woods. Settlers in the region became dependent on mining and sawmilling for their livelihoods. Throughout this time, small sawmills operated for varying periods. By the early 1950's, with the exception of Revelstoke, the only surviving communities along the CPR were those supported by the forest industry.

The first sawmill was established in Nakusp in 1893. The White Pine Lumber Company operated in Nakusp until it burnt down in 1929. The Big Bend Lumber Company then built a sawmill on the same site in 1935; it operated until 1960 when it was shutdown. Logs were obtained from small contractors who logged along the Upper Arrow Lakes. Fosthall was one of the early areas of large-scale harvesting. Logs were towed in flatbooms across the Upper Arrow Lake to the Nakusp mill site.

### **MANUFACTURING FACILITIES**

In the 1950's, the Celgar Development Company showed an interest in establishing a pulpmill at Castlegar. The Celanese Corporation of America operated a textile business in the US. After World War II, the corporation began searching for a new source of raw materials that lead them to the forests of British Columbia. In 1952, the company made an application to the BC government for a forest management licence over the Arrow Lakes forest. The government awarded the licence after holding public hearings, with the condition that Celgar Ltd. construct and operate an integrated pulpmill and sawmill complex at Castlegar, BC.

## **PULPMILL**

The construction of the integrated complex began in 1958, and the pulpmill started running in early 1961 along with a new sawmill and a wood room for whole log chipping. The pulpmill had a production capacity of 500 tonnes per day of bleached and semi-bleached kraft pulp.

In 1991, the new owners of the pulpmill, Celgar Pulp Company, built a state-of-the-art bleached kraft pulpmill adjacent to the old pulpmill. Its production capacity is 1,000 tons per day of bleached and semi-bleached kraft pulp. Sawmills in Revelstoke sell woodchips to the Celgar pulpmill. In the fall of 1994, Celgar re-opened the wood room, which had been closed since 1986, for processing roundwood and pulplogs into chips.

## **SAWMILL**

In 1952, the Celgar Development Company acquired the three sawmills that were cutting the majority of the timber within the proposed forest management licence area. The three sawmills were:

William Waldie and Sons Ltd., Castlegar  
Big Bend Lumber Company, Nakusp  
Columbia River Timbers, Sidmouth, north of Arrowhead

The Sidmouth sawmill stopped running in 1954. On being awarded the TFL, Celgar Ltd. proceeded to build a modern three-line sawmill at Castlegar. The last of the old sawmills was shutdown in 1960 with the opening of this new sawmill. The annual capacity of the new mill was 10 million board feet of lumber per year. The sawmill is the chief source of chip fibre for the pulpmill.

Westar Timber Ltd., who owned the sawmill at the time, completed a major upgrade of the sawmill in 1985-86. The sawmill is now owned by Pope & Talbot Ltd., and continues to operate in Castlegar as it has for the last 34 years. Continued modifications and upgrades have kept it modern and competitive.

Westar Timber Ltd. acquired the Malakwa sawmill in 1988. Prior to being acquired by Westar Timber the mill had a number of different owners and had been in receivership during the economic downturn of the early 1980s. In 1993 the mill and TFL 55 were acquired from Westar by Evans Forest Products Ltd. In 1997 Evans upgraded the mill to include a small log line. In November of 1999 the mill was acquired by Louisiana-Pacific Canada (LP). In 2005, LP officially closed the Malakwa cedar sawmill, however LP continues to manage TFL 55.

## LICENCE HOLDER

TFL 23 was first awarded to Celgar Development Company Ltd. on July 20, 1955 as Forest Management Licence 23. Forest Management Licence 23 covered 889,360 acres (359,923 ha), and extended from Mica Creek south to Castlegar in the Upper Columbia River/Arrow Lakes Valley. Although it was one of the largest TFLs in the province, only one-third was estimated to be harvestable timber. The remaining land consists of alpine tundra, mountain peaks, glaciers, scrubland, lakes, and rivers. In the 1970's, the Province of BC acquired ownership of the licence. A new company, Canadian Cellulose Company Ltd. (Cancel), was formed and assigned TFL 23. Subsequent licensee and licensee name changes are noted below.

In 1992, TFL 23 was subdivided to create TFL 55 from the licence area north of Revelstoke, and a new TFL 23 to the south. Pope & Talbot Ltd. purchased the Castlegar sawmill and the TFL 23 assets from Westars southern operations the same year. Westar remained as the licence holder of TFL 55 until June 1993. Subsequently, TFL 55 was subdivided into a northern block that remained as TFL 55, and a southern block that became TFL 56. Evans Forest Products Ltd. became the new licensee of TFL 55 in June 1993. The new licence area covers 92,227 ha extending from the Mica Creek in the north and bounded by the Goldstream River to the south. TFL 56 is held by the Revelstoke Community Forest Corporation.

## LICENSEE

Changes in licensee and name are noted below:

- 1955** Forest Management Licence 23 awarded to Celgar Development Company Ltd.
- 1958** Name change to Columbia Cellulose Company Ltd. (Celgar)
- 1973** Ownership acquired by BC provincial government. New company Canadian Cellulose Ltd. (Cancel) formed and assigned TFL 23 as new licensee.
- 1980** Name change to BC Timber Ltd. Assets became part of BRIC (British Columbia Investment Corporation).
- 1984** Name change to Westar Timber Ltd.
- 1992** Subdivision of TFL 23. Castlegar sawmill and southern assets acquired by Pope & Talbot Ltd., new licence holder of TFL 23. Westar Timber retained TFL 55, northern block of previous TFL 23.
- 1993** TFL 55 divided into northern and southern blocks. Evans Forest Products Limited acquired the northern block that remained TFL 55 (Selkirk Tree Farm Licence). The southern block became TFL 56 held by Revelstoke Community Forest Corporation.
- 1999** Licence sold by Evans Forest Products Limited to Louisiana-Pacific Canada Ltd.

## BOUNDARY REVISIONS

Since Forest Management Licence 23 was issued in 1955, numerous parcels of crown land have been removed from the licence for other uses. Some of these uses include home sites, mineral claims, park reserves, lookout and cabin sites, TV and radio repeater sites, BC Hydro transmission line rights-of-way, various access roads and highway gravel pits, recreation sites, and water reservoirs.

These land deletions have diminished the size of TFL 23, and have resulted in the creation of TFL's 55 and 56.

- (1) Removal for the Columbia River hydro project. In 1955-56, crown land was removed around the perimeter of the Upper and Lower Arrow Lakes and the Columbia River for the creation of the High Arrow Reservoir. This was followed by a further withdrawal of lands in 1977-78 in the Upper Columbia Valley north of Revelstoke to create the Upper Columbia Reservoir.
- (2) In 1987, the Downie Block northwest of Revelstoke was removed from TFL 23 and added to the Revelstoke timber supply area. This reduced the TFL by approximately 244,868 ha.
- (3) In 1992, TFL 23 was subdivided and the TFL lands north of Revelstoke became the new TFL 55.
- (4) As TFL 55 is a relatively new licence, few boundary changes have occurred since it was subtracted from TFL 23. The most notable revision was in 1993 when the licence was divided into north and south blocks, the north one being TFL 55 and the south the newly created TFL 56. As a consequence TFL 55 went from 211,975 hectares to its present size of 92,227 hectares.
- (5) New TRIM mapping and definition of the height of land boundaries resulted in an increase in gross area to 92,700 hectares.

## FOREST MANAGEMENT

Forest management in TFL 55 can be chronicled through the past management of TFL 23 until 1992 when the licence was subdivided. Because TFL 55 was only created in 1992, prior to then no year by year summary statistics are available except for the former TFL 23.

### LOG TRANSPORTATION AND HARVESTING

The first logging on TFL 23 began in 1959 in order to supply pulpwood to Celgar Ltd.'s new pulpmill which was due to be commissioned in 1961. Initial logging operations occurred between Arrowhead and Revelstoke as well as the Fosthall area. The following year, logging commenced north of Revelstoke in Spikers Valley, and the Goldstream area that is now part of TFL 55. An attached article from the Castlegar News in 1964 describes the early years of operations on TFL 23.

During the early sixties, water transport was an important component of log transportation. A combined system of trucking, river drives on the Columbia River, and towing of bundle booms to Castlegar served to transport logs to the pulp and sawmills. River drives were also utilized to transport logs on the Canoe River.

With the announcement of the Columbia River hydro project, log transport by that river system would end. BC Hydro planned the construction of three dams during the mid 1960's to the late 1970's: the High Arrow dam, the Mica dam, and the Revelstoke dam. Because the river could no longer be used as a transportation corridor, new roads would have to be built.

A new highway from Nakusp to Galena Bay was opened in 1967. Clearing of the High Arrow Reservoir took place in 1967, and the High Arrow dam was completed and closed in 1968. The last river drive on the Upper Columbia River to Galena Bay was in 1963. River drives continued on the last open section of the Columbia River until 1978, when the Revelstoke dam was closed. Since 1978, a combination of truck haul to a lake dumpsite and then towing in bundle booms down the Arrow Lakes has served to transport logs to the Castlegar mill site. In addition, a system of main line forest roads was progressively constructed into all the main drainages and networked to link with the lake towing system.

A number of main roads access TFL 55. The French creek mainline was initially constructed by placer miners in the 1940s and later upgraded by Westar Timber in 1992. The Bigmouth road was constructed in the early 1970s and a crossing over the Bigmouth River constructed in 1986. Most construction since that time has been connected to these mainline roads or directly to Highway 23 North.

Until the late 1960's, selective harvesting of preferred species such as white pine, spruce, Douglas-fir, larch, and cedar poles was a common system. The timber stands were regarded as defective and low in sawlog quality. Timber was logged by small crawler tractor. Early cutting patterns consisted of small clearcut blocks or strips, surrounded by leave blocks that acted as fire breaks and seed blocks. This gradually evolved into a clearcutting system using rubber-tired skidders, but crawler tractors were still used on steeper ground.

Cable harvesting was first introduced in TFL 23 in 1974. A feller-buncher system followed in 1975. During the 1970's, the conventional interior ground-based skidding systems were established. The use of crawler tractors and FMC skidders on steeper ground (>50% slope) drew criticism due to the large amount of soil disturbance, sidecuts, and skidtrails involved in logging a cutblock. In the mid-1980's various cable yarding systems were introduced and are now a standard logging system in TFL 55.

Log utilization standards have also changed through the years. In 1970, a major shift from the intermediate utilization standard to close utilization (CU) occurred, lowering the compulsory minimum harvestable tree diameter from 22.5 cm to 17.5 cm dbh. During the 1980 economic recession in the forest industry, Westar obtained temporary exemption from this standard so that lower quality logs did not have to be utilized. However, by the mid 1980's, utilization rose back to the normal CU standard, and by the early 1990's was exceeding the minimum standard due to a buoyant market for pulplogs.

By the mid-1990s development and first pass logging of the Mica Creek drainage was completed and the road system was semi-permanently deactivated. In the late 1990s harvesting of first pass was also substantially completed up Norman Wood Creek. By 2000 most of the main drainages on the TFL had primary access constructed. More recent development commenced into McCulloch Creek and French Creek, while harvesting continued at high elevations of Caribou Creek and the Bigmouth Creek.

## **TIMBER INVENTORY**

The initial inventory of TFL 23 was undertaken in 1952 to gather data for the proposed licence application. Columbia Cellulose used aerial photographic surveys as the basis for identifying and mapping the forest cover types.

In 1973, Reid Collins and Associates, forestry consultants, of Vancouver completed a comprehensive timber inventory, using BC Forest Service's latest inventory techniques. Refinements were added during the next 20 years by identifying terrain slope classes and determining an operable cut line.

In 1989, Westar engaged Industrial Forestry Services Ltd. of Prince George to undertake a re-inventory for the entire TFL 23. The re-inventory used new MoF systems to reclassify the forest cover of the younger age classes. The new inventory was entered into a computer database and is accessible through a GIS and was maintained by Timberline Forest Inventory Consultants until 1996.

In 1997 the Ministry of Forests undertook an inventory audit. The results concluded that the mature component is statistically reliable. Non-forest classification did not meet the new inventory standards. It also suggested that site index assignment of immature standards may not be accurate.

In 2001 LP began the process of conducting a re-inventory of the TFL using Vegetative Resource Inventory methodology. In 2005 this project was completed which also included a Net Volume Factor Adjustment phase. Additionally LP is undertaking a Site Index Adjustment project for managed stands.

**PLANNING****Licensee**

Forest management in TFL 55 has been guided by seven successive management and working plans for TFL 23 until division of TFL 23 into TFL's 23, 55, and 56. Each MWP was written for a five-year period and approved by the provincial chief forester. Management and Working Plan 7 originally outlined management strategies and commitments for TFL 55 through to December 1993, after which it was extended through to the end of 1994. Management Plan #3 was approved for the previous period 2001 to 2005.

The Minister's Advisory Committee plan (2000) and the Revelstoke Higher Level Plan Order have directly influenced forest land allocation and resource planning strategies on TFL 55.

**TFL 55 L.P. Harvesting Summary [1992 to 2005]**

<b>MPlan #</b>	<b>Year</b>	<b>AAC (m<sup>3</sup>/yr)</b>	<b>Harvested (m<sup>3</sup>)</b>	<b>% AAC</b>
<b>1</b>	<b>1992</b>	212,356	117,117	55%
	<b>1993</b>	100,542	106,205	106%
	<b>1994</b>	97,955	130,956	134%
	<b>1995</b>	97,955	89,318	91%
	<b>1996</b>	92,229	101,564	110%
<b>Total</b>		<b>601,037</b>	<b>545,160</b>	
<b>2</b>	<b>1997</b>	92,022	57,226	59%
	<b>1998</b>	97,022	82,673	85%
	<b>1999</b>	97,022	116,670	120%
	<b>2000</b>	97,022	121,852	126%
	<b>2001</b>	89,953	77,376	86%
<b>Total</b>		<b>458,041</b>	<b>455,797</b>	
<b>3</b>	<b>2002</b>	78,325	75,205	96%
	<b>2003</b>	78,325	80,889	103%
	<b>2004</b>	78,325	51,771	66%
	<b>2005</b>	78,325	99,450	127%
<b>Total</b>		<b>313,300</b>	<b>307,315</b>	

AAC excludes SBFEP volume of 11,675 m<sup>3</sup>/yr



## BC Timber Sale Program

This program was initiated in 1991 when an operating area was allocated at Stitt Creek. The timber was sold under a value-added timber sale licence to Downie Timber Ltd. Downie Timber carried out construction of access roads and carried out harvesting of blocks.

A large fire occurred in the Stitt on the north side of the Stitt River during the summer of 1998. Downie Timber recently completed the heli-log salvage of this area. A large amount of merchantable timber was recovered.

Harvesting completed during the three management plan terms is summarized below.

### TFL 55 BCTS Harvesting Summary 1992 to 2005

<b>MPlan #</b>	<b>Year</b>	<b>AAC m<sup>3</sup></b>	<b>Actual Cut m<sup>3</sup></b>
<b>1</b>	<b>1992</b>	13,000	10,557
	<b>1993</b>	11,675	7,515
	<b>1994</b>	11,675	4,279
	<b>1995</b>	11,675	8,493
	<b>Total</b>	<b>48,025</b>	<b>30,844</b>
<b>2</b>	<b>1996</b>	11,675	2,460
	<b>1997</b>	11,675	16,831
	<b>1998</b>	11,675	10,272
	<b>1999</b>	11,675	9,934
	<b>2000</b>	11,675	23,961
<b>Total</b>	<b>58,375</b>	<b>63,458</b>	
<b>3</b>	<b>2001</b>	11,675	40,055
	<b>2002</b>	11,675	1,000
	<b>2003</b>	11,675	0
	<b>2004</b>	11,675	0
	<b>2005</b>	17,675	14,180
<b>Total</b>	<b>64,375</b>	<b>55,235</b>	

## BCTS Silviculture Activity Report for Years 1999-2004

<b>Year</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
<b>Activity</b>						
Manual Brushing	52.3	62.7	185.7	149.3	79.9	89.9
Planting (Fill)	21.5	46.4	15.5	0	0	0
Planting	46.7	40.1	53.7	6.5	38.7	0
Site Prep (BB)	7.5	35.8	0	0	0	0
Site Prep (Spot Burn)	0	8	0	0	0	0
Site Prep (chemical)	0	0	0	36.1	0	0
Site Prep (grass seed)	3.5	0	0	0	0	0

BB= Broadcast Burn

## **FOREST PROTECTION**

Since TFL 23 was first awarded in 1955, the area has been relatively stable and protected from major catastrophic events such as wildfire or disease outbreaks. Forest fires, caused by lightning and operations, have occurred sporadically, but have been contained without major losses.

A review of fire history data reveals that the 10 largest fires which occurred during a 49 year period (2004- 1955) accounted for 97% of the area burned. Further analysis revealed that the majority of the area was salvaged or if the fire occurred today would be salvaged as the areas in question are now well roaded. Annual losses for fire are estimated to be 704 m<sup>3</sup>/year.

## **SILVICULTURE**

The first plantation on TFL 55 was in 1978 on CP 770. The planting program varied dramatically until 1986, as the program was concentrated in either the South or North each year. This resulted in little or no planting on TFL 55 several years between 1978 and 1986.

The first plantation was all B class spruce. Most plantations were single species until the early 90s, and the program has rapidly evolved until virtually all plantations are multi-species.

Genetically improved spruce was first planted on TFL 55 in 1992, and has become available to cover most elevations. Since 1996 almost all of the spruce now planted on the TFL is 'A' class seed orchard seed of improved genetic worth.

Efforts were made to re-establish white pine through Westar's white pine management program. This involved cooperation with the US Forest Service and the BC Forest Service in a tree improvement program and reforestation with genetically improved rust-resistant seedlings. Harvesting of rust-infected white pine trees also received priority.

The new Silviculture Regulations introduced in 1987 gave individual companies technical and financial responsibility for reforestation programs. The licensee at the time, Westar Timber Ltd., began placing more emphasis on practices that would improve the survival, establishment, and growth of plantations. Improvements began at the initial reforestation planning level. Detailed ecosystem-based pre-harvest silviculture prescriptions were now being prepared for every cutblock prior to harvesting. The Forest Renewal Initiative commenced in 1989 to restock and brush 12,000 hectares of backlog NSR, and had been largely completed by 1994.

In 1990, changes in site preparation strategy were implemented. The strategy called for less broadcast burning and planting over a larger area. Mechanical site preparation evolved from use of crawler tractors with brush blades to mounding with backhoes.

The nutrient-rich valley bottom sites have proven difficult to re-establish with conifers due to dense regrowth of brush species after logging. It was recognized that stand-tending brush control needed a higher priority. Various hand brush control techniques were tested in this period. From 1990 to 1993, up to 4,000 sheep were used to graze brush on plantations as well as browse herbaceous brush in other areas prior to planting.

### TFL 55 L-P Logging and Silviculture Activities -- 1992 to 2005

Activity	units	M P # 1				M P # 2					M P # 3					Total
		1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	
Volume Logged	m <sup>3</sup>	117,117	106,205	130,956	89,318	101,564	57,226	82,672	116,670	121,852	77,376	75,205	80,889	51,771	1,208,821	
Logged Vol/ha	vol/ha	730	353	530	473	506	376	521	500	455	386	386	360	362	452	
Logged	ha	160	301	247	189	201	152	159	233	268	200	195	225	143	2,673	
Natural Regen	ha	431														431
Broadcast Burned	ha	27	31	27	1	67										153
Site Preparation	ha	64	14	84	9	21										192
Plantation	ha	593	184	85	242	401	123	140	224	160	429	193	91	346	3,212	
No. Seedlings	000's	746	249	137	306	575	204	186	310	198	651	257	143	490	4,451	
Brushing (manual)	ha	334	209	284	401	482	541	664	336	310	493	525	538	626	5,743	
Brushing (chemical)	ha	34				7 4 19										64
Survey (regen)	ha	435	1,405	691	808	1,613	682	1,241	488	1,037	772	1,263	821	836	12,092	
Survey (survival)	ha	764	207	179	264	355	425	152	166						2,512	
Survey (free growing)	ha	289	9	231	161	42	415	574	1,342	643	431	449	77	228	4,891	
Ratio Area Treated/Harvested		6.35	1.46	2.08	3.46	4.51	4.36	5.11	2.71	1.82	4.60	3.68	2.80	6.80	3.50	

**Table 1: TFL 55 L-P Harvest by Cut Control Period (m<sup>3</sup>)**

<b>Period</b>	<b>Year</b>	<b>Allowable Annual Cut Dec 31 (m<sup>3</sup>)</b>	<b>Adjusted Undercut (m<sup>3</sup>)</b>	<b>Allowable Annual Rate of Cut (m<sup>3</sup>)</b>	<b>Volume Harvested (m<sup>3</sup>)</b>	<b>% AAC</b>
<b>Second</b>	<b>1992</b>			212,356	117,117	55%
	<b>1993</b>			100,542	106,205	106%
	<b>1994</b>			97,955	130,956	134%
	<b>1995</b>			97,955	89,318	91%
	<b>1996</b>			92,229	101,564	110%
	<b>Total</b>			<b>601,037</b>	<b>545,160</b>	<b>91%</b>
<b>Third</b>	<b>1997</b>	88,325	8,697	97,022	57,226	59%
	<b>1998</b>	88,325	8,697	97,022	82,673	85%
	<b>1999</b>	88,325	8,697	97,022	116,670	120%
	<b>2000</b>	88,325	8,697	97,022	121,852	126%
	<b>2001</b>	81,257	8,696	89,953	77,376	86%
	<b>Total</b>	<b>434,557</b>	<b>43,484</b>	<b>478,041</b>	<b>455,797</b>	<b>95%</b>
<b>Fourth</b>	<b>2002</b>	78,325		78,325	75,205	96%
	<b>2003</b>	78,325		78,325	80,889	103%
	<b>2004</b>	78,325		78,325	51,771	66%
	<b>2005</b>	78,325		78,325	99,450	127%
	<b>2006</b>					
	<b>Total</b>	<b>313,300</b>	<b>0</b>	<b>313,300</b>	<b>307,315</b>	<b>98%</b>

AAC excludes SBFEP 11,675 m<sup>3</sup>/yr

**Table 2: Summary of Harvesting Commitments****TFL 55 L-P Problem Forest Types\***

Activity	Units	M P # 2 (1996-2000)					Total
		1996	1997	1998	1999	2000	
TFL Volume Logged	m <sup>3</sup>	101,564	57,226	82,673	116,670	120,000	<b>478,133</b>
Problem Forest Types Volume Logged	m <sup>3</sup>	45,196	35,881	40,344	30,684	37,759	<b>189,864</b>
TFL Area Logged	ha	201	152	159	233	268	<b>1,013</b>
Planned Problem Forest Types	ha	59	59	59	59	59	<b>295</b>
Problem Forest Types Area Logged	ha	89	95	83	117	93	<b>477</b>
% Logged of Planned	%	151.6%	161.5%	140.1%	197.9%	157.6%	<b>161.7%</b>
% Problem Forest Types	%	44.5%	62.7%	52.0%	50.1%	34.7%	<b>48.8%</b>

**Steep Slope Harvest\***

Activity	Units	M P # 2 (1996-2000)					Total
		1996	1997	1998	1999	2000	
TFL Volume Logged	m <sup>3</sup>	101,564	57,226	82,673	116,670	120,000	<b>478,133</b>
Steep Slope Volume Logged	m <sup>3</sup>	42,657	15,451	28,357	47,601	65,138	<b>194,791</b>
Requirement	%	17.0%	17.0%	17.0%	17.0%	17.0%	<b>17.0%</b>
Minimum Target Volume	m <sup>3</sup>	17,266	9,728	14,054	19,834	20,400	<b>81,283</b>
% Logged of Target	%	247.1%	158.8%	201.8%	240.0%	319.3%	<b>233.4%</b>
% Steep Slope of TFL Volume	%	42.0%	27.0%	34.3%	40.8%	59.6%	<b>40.7%</b>
TFL Area Logged	ha	201	152	159	233	268	<b>1,013</b>

**Partition Cut Performance\***

Activity	Units	M P # 2 (1996-2000)					Total
		1996	1997	1998	1999	2000	
TFL Volume Logged	m <sup>3</sup>	101,564	57,226	82,673	116,670	120,000	<b>478,133</b>
Partition AAC Requirement	m <sup>3</sup>	6,666	10,000	10,000	10,000	10,000	<b>46,666</b>
Partition Cut Logged	m <sup>3</sup>	16,760	32,356	27,104	19,954	12,912	<b>109,086</b>
% of Requirement Logged	%	251.4%	323.6%	271.0%	199.5%	129.1%	<b>233.8%</b>
% of TFL volume Logged	%	16.5%	56.5%	32.8%	17.1%	10.8%	<b>26.7%</b>

**Harvesting Commitments not applicable to Management Plan # 3.**

\* Information based on TFL 55 Annual Reports

Table 3: L-P Species Planted 1992 to 2005

Year Planted	S P E C I E S P L A N T E D														Total	
	Sx		Fdi		Cw		Pw/Pli		Hw/Lw		BI		Hm		# plntd	%
	# plntd	%	# plntd	%	# plntd	%	# plntd	%	# plntd	%	# plntd	%	# plntd	%		
1992	730,005	97.9	15,765	2.1											<b>745,770</b>	17%
1993	190,600	76.5	14,400	5.8	18,900	7.6	3,200	1.3			21,900	8.8			<b>249,000</b>	6%
1994	104,184	76.3	21,129	15.5	11,160	8.2									<b>136,473</b>	3%
1995	294,095	96.2	6,060	2.0	5,595	1.8									<b>305,750</b>	7%
1996	346,500	60.3	122,010	21.2	106,280	18.5									<b>574,790</b>	13%
1997	129,845	63.6	13,060	6.4	61,325	30.0									<b>204,230</b>	5%
1998	98,935	53.3	18,070	9.7	56,599	30.5	7,140	3.8	4,960	2.7					<b>185,704</b>	4%
1999	213,300	68.8	18,900	6.1	30,600	9.9	8,700	2.8			30,000	9.7	8,700	2.8	<b>310,200</b>	7%
2000	112,823	57.0	9,000	4.5	53,016	26.8	15,800	8.0			7,395	3.7			<b>198,034</b>	4%
2001	346,953	53.4	46,492	7.1	115,410	17.7	50,370	7.7	810	0.1	57,375	8.8	33,840	5.2	<b>651,250</b>	15%
2002	138,741	53.9	32,613	12.7	48,684	18.9	6,120	2.4			14,610	5.7	16,590	6.4	<b>257,358</b>	6%
2003	49,300	34.5	40,400	28.3	24,000	16.8	17,300	12.1	2,300	1.6	9,400	6.6			<b>142,700</b>	3%
2004	242,600	49.5	74,700	15.2	87,000	17.7	29,400	6.0			36,600	7.5	20,300	4.1	<b>490,600</b>	11%
2005																
<b>Total</b>	2,997,881	67%	432,599	10%	618,569	14%	138,030	3%	8,070	0%	177,280	4%	8,700	0%	<b>4,451,859</b>	100%