Pope & Talbot Ltd. Arrow Lakes Timber Division TFL 23

2003 ANNUAL REPORT

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1.0 SUMMARY OF MANAGEMENT ACTIVITIES - TREE FARM LICENCE #23 - 2003

1.1 Performance

1.11	Total scaled volume (firmwood)	452,957 m3
1.12	Total volume removed by Contractors (excluding W&R)	445,939 m3
1.13	Area logged	1,588.0 ha
1.14	Area planted	1,957.7 ha
	Trees planted	2,659,840
1.15	2003 Forest Investment Account (FIA):	
	Strategic Resource Planning Component	\$200,302.04
	Infrastructure Component	\$9,645.82
	Restoration and Rehabilitation Component	\$17,078.17
	Information Gathering and Management Component	\$260,823.27
	FIA Program Delivery	\$44,921.32
	Total Expenditures	\$532,770.62
1.16	Total area abated using prescribed fire	89.2 ha
1.17	Total area mechanically site prepared	248.9 ha
1.18	Total area pruned	42.9 ha
1.19	Total area Juvenile Spaced	7.4 ha

2.0 PRODUCTION

2.1 Annual Cut 2003

The following Table summarizes the Cut Control to date in the Forest Development Plan (2000-2004):

Volume Summary of the Five-Year Plan: 2000-2004 (m³)				
YEAR ACTUAL CUT ALLOWABLE ANNUAL				
2000	588,925.5 m3	599,300 m3		
2001	493,224.6 m3	599,300 m3		
2002	548,140.0 m3	599,300 m3		
2003	452,956.6 m3	599,300 m3		
2004				
Final 5 Year Position	2,083,246.7 m3	2,397,200 m3		

Current 5-Year Cut Control Performance 87%
Pope & Talbot Ltd. Actual Cut = 452,957 m3
of which = 18,749 m3 was Partition Cut
Conventional Actual Cut = 434,208 m3

2.2 Waste & Residue Surveys

Waste & Residue surveys were carried out on TFL 23 according to Ministry of Forests procedures.

The following tables show the results of these surveys conducted in 2003:

2003 TOTAL WASTE & RESIDUE (m³)					
Columbia F.D. Arrow F.D. TOTAL					
Avoidable Residue & Waste	370.0	3979.9	4349.9		
Unavoidable Residue & Waste	123.0	126.9	249.9		
Total Residue & Waste Volume 493.0 4106.8 4599.8					
2003 Performance (m³/ha) 19.5 2.5 2.7					

The above Waste & Residue volumes will be applied to Cut Control volumes.

2003 TOTAL BILLABLE WASTE (m³)				
Columbia F.D. Arrow F.D. TOTAL				
Total Waste Volume	0	0	0	
2003 Performance (m³/ha)	0	0	0	

3.0 STAND TREATMENT

3.1 Hectares Harvested Treatment Class

	Area Harvested in 2003 by Treatment Class (ha)					
	Treatment Class Code	Hectares	% of Total			
1	Clearcut	64.3	4%			
2	Clearcut with Reserves	1409.1	89%			
3	Salvage	114.6	7%			
4	Seed Tree	0.0	0%			
5	Select	0.0	0%			
6	Shelter	0.0	0%			
	TOTAL	1588.0	100%			

Appendix II.03 lists the hectares harvested by landscape unit and cutting practice (Treatment Class).

3.2 Hectares Harvested by Age Class

	Area Harvested in 2003 by Age Class (ha)					
	Age Class	Hectares	% of Total			
1-5	100 years and under	431.7	27%			
6	101-120 years	307.9	19%			
7	121-140 years	287.3	18%			
8	141-250 years	555.0	35%			
9	Over 250 years	6.1	<1%			
	TOTAL	1588.0	100%			

Appendix II.04 lists the hectares harvested by landscape unit and age class

3.3 Hectares Harvested by Site Index Class

Area Harvested in 2003 by Site Index Class (ha)					
Site Index Class	Hectares	% of Total			
GOOD	637.5	40%			
MEDIUM	719.1	45%			
POOR	192.8	12%			
LOW	38.7	2%			
TOTAL	1588.0	100%			

Appendix II.05 lists the hectares harvested by landscape unit and site index class.

4.0 REFORESTATION

4.1 Tree Seed Inventory

As presented in Appendix II.06, there was private seed, sufficient to grow over 42 million trees, in storage at the Surrey Seed Center as of December 31, 2003. Species and amounts are summarized in Appendix II.06. See Appendix II.06 for tree seed inventory.

SPECIES	AMOUNT (000's)	YEARS OF SUPPLY
Bg	665.7	5+
BI	104.0	2+
Cw	1061.2	5+
Fdi	7340.4	5+
Lw	1259.8	5+
Pli	7966.4	5+
Pw (Class A)	196.1	5+
Ру	683.5	5+
Sx	22,751.9	5+
	Total all Species: 42,029.0	

4.2 Plantations

The 2003 planting program is summarized as follows:

2003 PLANTING SUMMARY					
	APPRAISAL	INDUSTRY OUTSTANDING	MINISTRY OUTSTANDING	TOTALS	
		Columbia Forest D	District		
Hectares	53.5	0.0	0.0	53.5	
Trees	63,320	0	0	63,320	
		Arrow Forest Dis	strict		
Hectares	1904.2	0.0	0.0	1904.2	
Trees	2,596,520	0	0	2,596,520	
TFL 23 Totals					
Hectares	1957.7	0.0	0.0	1957.7	
Trees	2,659,840	0	0	2,659,840	

The breakdown of seedlings by species for TFL 23 is as follows:

2003 PLAN	2003 PLANTING SEEDLINGS by SPECIES							
Species	TFL TOTALS	%						
Bg	15,420	0.6%						
ВІ	146,509	5.5%						
Cw	95,070	3.6%						
Fdi	384,800	14.5%						
Lw	266,509	10.0%						
Pli	397,040	14.9%						
Pw	215,320	8.1%						
Ру	44,840	1.7%						
Sx	1,094,332	41.1%						
TOTAL # OF SEEDLINGS	2,659,840	100%						

4.3 Silviculture Surveys

During 2003, 8837.3 hectares were surveyed on TFL 23 as follows:

			2003	SILVICL	JLTURE	SURVE	YS		W-th	
Survey	Co	olumbia F	.D.		Arrow F.D).	TF	TFL 23 TOTALS		
Туре	(by	Fund Sou	ırce)	(by	Fund Sou	ırce)	(by	Fund Sou	rce)	
(activity)	IA	Ю	MO	IA	Ю	МО	IA	Ю	МО	
BR	0.0	0.0	0.0	30.4	0.0	0.0	30.4	0.0	0.0	
FG	140.8	0.0	0.0	2019.5	0.0	0.0	2160.3	0.0	0.0	
JS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
PL	0.0	0.0	0.0	145.9	0.0	0.0	145.9	0.0	0.0	
RA	9.5	0.0	0.0	1009.5	0.0	0.0	1019.0	0.0	0.0	
RE	27.6	0.0	0.0	2363.9	0.0	0.0	2391.5	0.0	0.0	
RG	44.2	0.0	0.0	1302.6	0.0	0.0	1346.8	0.0	0.0	
PR	0.0	0.0	0.0	0.0	0.0	115.3	0.0	0.0	115.3	
su	83.2	0.0	0.0	1544.9	0.0	0.0	1628.1	0.0	0.0	
TOTAL	305.3	0.0	0.0	8416.7	0.0	115.3	8722.0	0.0	115.3	
Colu	ımbia To	otal 305.3	3 ha	Arrow	/ Total 85	32.0 ha	TFL 2	3 Total 88	37.3 ha	

LEGEND FOR SURVEY TABLE CODES

IA	Industry Appraisal (harvested after 1987)	Industry Outs (harvested between	1982 - 1987)	МО	Ministry Outstanding (harvested prior to 1982)
BR	Brushing	RE	TO THE STATE OF TH		naissance
FG	Free Growing	RG	Regen Delay – Stocking		
PL	Planting	PR		Pruning A	Assessment
RA	Regeneration Performance	SU		Su	rvival

4.4 Backlog Silviculture Plan

NSR AREA SUMMARY (ha) - as of December 31, 2003								
	I.A.	I.O.	M.O.	TOTAL				
Columbia F.D.	41.7	0.0	0.0	41.7				
Arrow F.D.	3,126.9	0.0	21.2	3,148.1				
TOTAL	3,168.6	0.0	21.2	3,189.8				

2004 PLANTING PLAN SUMMARY (ha)								
I.A. I.O. M.O. TOTAL								
Columbia F.D.	0.0	0.0	0.0	0.0				
Arrow F.D.	2,494.1	0.0	0.0	2,494.1				
TOTAL	2,494.1	0.0	0.0	2,494.1				

4.5 Site Preparation

Mechanical site preparation was conducted on a total of 248.9 hectares and prescribed burns were carried out on 89.2 hectares on TFL 23. The objective was to prepare areas for our planting program.

	2003 SITE PREPARATION										
TECHNIQUE &	Colu	mbia F	.D.	A	rrow F.D).	TFL	TFL 23 Totals			
METHOD	IA	10	МО	IA	10	МО	IA	10	МО		
BU BROAD	0.0	0.0	0.0	68.1	0.0	0.0	68.1	0.0	0.0		
BU LAND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
BU PBURN	0.0	0.0	0.0	21.1	0.0	0.0	21.1	0.0	0.0		
BU PILE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
BU SPOT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ME MOUND	0.0	0.0	0.0	115.0	0.0	0.0	115.0	0.0	0.0		
ME GUARD	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0	0.0		
ME PILE	0.0	0.0	0.0	36.8	0.0	0.0	36.8	0.0	0.0		
ME RESTU	0.0	0.0	0.0	95.5	0.0	0.0	95.5	0.0	0.0		
SE TUBEX	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.0	0.0	0.0	338.1	0.0	0.0	338.1	0.0	0.0		
TOTAL ALL		0.0			338.1			338.1			

5.0 STAND TENDING

5.1 Stand Treatments

5.11 Brushing

The objective is to maximize the survival and early growth of young plantations by removing competing vegetation. Manual brushing was conducted in both the Arrow and Columbia Forest Districts.

	2003 BRUSHING									
ACTIVITY &	Col	lumbia F	.D.	Ar	Arrow F.D. TFL 23 Total			al		
METHOD	I.A.	I.O.	M.O.	I.A.	I.O.	M.O.	I.A.	I.O.	M.O.	
MA BRUSH	37.7	0.0	0.0	114.2	0.0	0.0	151.9	0.0	0.0	
MA MANCT	0.0	0.0	0.0	57.9	0.0	0.0	57.9	0.0	0.0	
MA POWER	0.0	0.0	0.0	200.1	0.0	0.0	200.1	0.0	0.0	
TOTAL	37.7	0.0	0.0	372.2	0.0	0.0	409.9	0.0	0.0	
TOTAL ALL	37.7			ALL 37.7 372.2			140	409.9		

LEGEND FOR BRUSHING TABLE CODES

MA BRUSH	Manual – Brush Saw	Herbaceous Brushing Management
MA MANCT	Manual - Manual Cutting	Herbaceous Brushing Management
MA POWER	Manual – Power Saw	Conifer Release – Hardwood Management

5.12 Conifer Release

Conifer release was conducted on 200.1 ha of appraisal ground. No conifer release was done on pre-appraisal ground in 2003.

5.13 Herbaceous Brushing

Herbaceous brushing was conducted on 209.8 ha of appraisal ground in 2003. No herbaceous brushing was done on pre-appraisal ground in 2003.

5.14 White Pine Pruning

Pathological pruning of White Pine was completed on 34.4 ha of pre-appraisal ground and 8.5 ha of appraisal ground in 2003. Pruning of 34.4 ha of ground was paid by Forest Investment Account funds.

5.15 Juvenile Spacing and Pruning

Juvenile spacing of natural stands defined as spacing in stands with an average corrected age of less than 40 years, was conducted on 7.4 ha of appraisal ground while no juvenile spacing took place on pre-appraisal on TFL 23 in 2003.

5.2 Stand Tending Summary

During 2003, stand tending treatments took place on a total of 460.2 ha. See Appendix II.09 for the Stand Tending Treatment summary to December 31, 2003.

6.0 GROWTH AND YIELD

6.1 Permanent Growth Plots

No Permanent Growth Plots were established in 2003.

6.2 Permanent Sample Plots (PSP's)

In 2003, 22 PSP's were re-measured using Forest Investment Account (FIA) funding.

7.0 WHITE PINE TREE IMPROVEMENT PROGRAM

As a member of the Inland Empire Tree Improvement Cooperative (IETIC), Pope & Talbot Ltd. received approximately 3 kilograms (about 20,000 seedlings) of rust resistant White Pine seed from the 2003 Moscow Arboretum Seed Orchard cone collection.

8.0 DEVELOPMENT

8.1 Forest Development Plans

On January 24, 2003 Pope & Talbot Ltd. submitted a Forest Development Plan covering the period 2003 - 2007. The 2003-2007 Forest Development Plan was approved on July 14, 2003. On October 23, 2003, the 2003-2007 FDP was amended to address the Ingersol and Halfway fires.

8.2 Cutting Permits

As of December 31, 2003 Pope & Talbot Ltd. had, under Cutting Permit, 1.87 years of documented conventional wood and 1.23 years of documented helicopter wood. In 2003 \$1,737,803 was spent on Cutting Permit development to maintain volumes under Cutting Permit and to ensure operational flexibility.

8.3 Road Construction - Appraisal

Total roads constructed in 2003 were 117.5 km in the Arrow District. The total cost of road construction was \$4,688,000.

8.4 Grass Seeding - Erosion Control

Grass seeding is done on newly constructed roads (ditchlines, cut slopes, fill slopes, and, in some cases, R/W landings), and again on roads in cut blocks post-harvesting. The seeding is done, primarily, on environmentally sensitive areas, but also to improve aesthetics.

A total of 169.7 kilometres of roads were grass seeded in 2003.

9.0 FOREST PROTECTION - INSECTS AND DISEASES

In the summer of 2003, a forest health helicopter inventory was conducted on TFL 23. P&T staff flew over a two-day period and noted all visible insect and disease activity. As a result, development planning was revised to address any potential concerns. A Forest Health Strategy was completed under the Forest Investment Account schedule. See Appendix II.10.

9.1 Mountain Pine Beetle

The mountain pine beetle is still present in many pine stands in the southern portion of TFL 23. As a result, P&T continued to work on and update its Beetle Management Plan. In the summer of 2003, forest technicians worked on collecting field data in order to establish stand risk indices. This work will continue in 2004.

Harvesting in 2003, that specifically targeted mountain pine beetle infested and susceptible timber types, was carried out in the following areas; CP 277 (Renata), CP 339 (Tulip), CP 334 (Tulip), CP 371 (Octopus), and CP 395 (Woden Creek).

Field layout was completed on the following mountain pine beetle permits; CP 298 (Charity Creek), CP 299 (Lower Bowman), CP 310 (Renata), CP 311 (Renata) as well as Sunshine Creek and Van Houten Creek.

In 2004, harvesting of mountain pine beetle infested and susceptible timber is scheduled for CP 298 (Charity Creek), CP 305 (Faith), CP 339 (Tulip Creek), CP 368 (Gladstone Creek), CP 362 (Gladstone Creek), CP 395 (Woden Creek), CP 383 (Heart Creek), CP 412 (Heart Creek), CP 413 (Stoney) and CP 414 (Octopus). CP layout targeting mountain pine beetle susceptible timber types will continue in 2003.

9.2 Pw Blister Rust

Endemic populations of white pine blister rust are resident in most stands in the Interior Cedar-Hemlock Biogeoclimatic Zone on TFL 23. Harvesting priorities on TFL 23 are not determined by the potential to salvage blister rust infected timber within this zone due to low concentration levels of white pine in most stands. However, Pw blister rust can combine with other forest pathogens to increase mortality.

9.3 Spruce Bark Beetle

Spruce blowdown attracts Spruce Bark Beetles making prompt salvage a priority. Minimal blowdown events have occurred making this a minor problem.

9.4 Douglas-Fir Bark Beetle

The Douglas-fir bark beetle seems to be making a comeback, possibly due to the recent mild winters. P&T continues to monitor for any signs of this pest. Salvage harvesting took place in CP 197 (Arrow Park) to salvage trees infested with the beetle. This was in the latter part of 2003. Also, endemic levels are present in CP 383, Blocks 6 & 7 (Heart Creek), CP 313 (Faith Creek) and CP 364 (Sunshine Creek). All are scheduled for harvest in 2004

9.5 Defoliators

Hemlock looper infested timber, from the last outbreak ending in 1994/1995, exists in compartment 122 (Upper Pingston Creek). No new outbreaks of looper have been detected on TFL 23.

9.6 Armillaria

In 2003, root removal harvesting was completed in CP 366 (Deer Ridge).

Armillaria is a significant forest health pathogen in the southern portion of TFL 23. As a result root removal operations are planned for CP 364 (Sunshine/Gladstone), CP 481 (Cape Horn) and CP 489 (St. Leon Creek) in 2004.

9.7 Spruce Budworm

No spruce budworm was observed in 2003.

9.8 Other Pests

Balsam Bark Beetle – Large-scale salvage was completed in the fall/winter of 2003 in CP 253. Pockets of this beetle still exist in some stands. As a result, all remaining stands will be monitored over the next few years.

Blowdown – Wind continues to damage standing timber. In 2003, blowdown was salvaged in CP 1 (Eddy Road). In 2004, salvage is planned for CP 512 (Blind Bay), CP 483 (McLeod Road) and CP 419 (Eddy Road).

Wildfire – The summer of 2003 brought numerous wildfires. P&T began salvage operations on CP 197 (Ingersol fire), CP 395 (Burton fire), CP 597 (halfway fire and a small fire in CP 1 (Cayuse Creek). Salvage will continue in 2004 in all these permits as well as CP 245 and CP 243 within the Ingersol fire.

10.0 FOREST INVESTMENT ACCOUNT (FIA)

In May 2003, Pope & Talbot entered into a recipient agreement with PricewaterhouseCoopers LLP, administrator of the land base investment program of the Forest Investment Account (FIA). The land base investment program (LBIP) was established by the Provincial Government to deliver high priority and cost-effective forest productivity and sustainability investments. As the FIA program is founded upon a Vote of the Legislature, there is no guarantee of funding in subsequent years. The 2003-2004 FIA allocations were reduced by 21% from the previous year. A reduction of FIA funding is anticipated for 2004-2005.

Pope & Talbot's 2003-2004 FIA Investment Schedule for TFL 23 included eligible projects within the following LBIP components: Strategic Resource Planning, Infrastructure, Restoration and Rehabilitation and Information Gathering and Management. This range of activities represents a balance of investments over the management unit. Currently Pope & Talbot is developing a Sustainable Forest Management Plan (SFMP) for three management units identified within the licensed land base. The SFMP will drive future FIA investment decisions, as well as support the regulatory framework, timber supply analysis and resource specific strategies.

Total expenditures for the TFL 23 2003-2004 FIA Investment Schedule were \$532,771. All total expenditures reported below include a delivery allowance to cover FIA program planning, management and administrative costs. The delivery allowance is calculated based on a percentage of actual project costs.

10.1 Strategic Resource Planning Component

Land Base Investment Rationale (LBIR) documents were developed to guide FIA funding for 2003-2004 and 2004-2005. Several projects were carried out under the Sustainable Forest Management Planning activity area to support preparation of Pope & Talbot's SFMP Version 1.0. These projects include a funding contribution for the West Kootenay Representation Analysis, the joint Pope & Talbot/Slocan Forest Products Management Implications project to assess the operational implications of strategic timber supply analyses, and development of Social and Economic Criteria and Indicator for TFL 23. The Management Unit Strategies activity area included the following projects: TFL 23 Spatial Analysis Update, Silviculture Treatment Regime Initiative Project (STRIP), Caribou Habitat Assessments and a Forest Health Strategy.

Total 2003-2004 expenditures in the Strategic Resource Planning component were \$200,302.04. See Appendix II.10.

10.2 Infrastructure Component

The Infrastructure component included monitoring and maintenance of roads that were deactivated under the Forest Renewal BC program and the 2002-2003 FIA program. A total of 70 km of road was inspected, improvements were made to surface and subsurface drainage on Batys Road and one slide site was stabilized.

Total 2002-2003 expenditures for the Infrastructure component were \$9,645.82. See Appendix II.10.

10.3 Restoration and Rehabilitation Component

Prescriptions were developed and works were completed for the following projects in the Terrestrial Activity Area: 0.35 km of permanent deactivation on Cusson Road Spur C, a bridge removal on Pin Road Branch 7, and a bridge removal on the Finkle Creek Mining Trail. All areas were seeded following deactivation. A channel restoration prescription was revised and works were carried out under the Riparian Activity Area for a tributary to Wilkie Creek.

Total 2003-2004 expenditures for the Restoration and Rehabilitation component were \$17,078.17. See Appendix II.10.

10.4 Information Gathering and Management Component

Six activities were completed under the Information Gathering and Management component. Twenty-two permanent sample plots (PSP) were remeasured on TFL 23. RIC-standard field sampling was conducted to support PEM verification and quality assurance through the Habitat Site Investigations project. The Fish and Fish Habitat Inventory (FFHI) activity included a Phases 1-3 Pre-field Planning project, sampling of 226 sites in the Phases 4-6 Reconnaissance Level (1:20,000) project and the Follow-up Sampling project, and a Digital Mapping Update project. The Pope & Talbot Arrow Lakes Timber Division completed several partnership projects in 2003-2004 including the Central Selkirk Caribou aerial population census, an evaluation of conservation values of different types of old-growth forests in the Incommapleux River valley using epiphytic lichen indicators, and a data exchange project to transform data from GENUS to RESULTS and FTA.

Total 2003-2004 expenditures for the Information Gathering and Management component were \$260,823.27. See Appendix II.10.

11.0 AMENDMENTS TO THE TFL 23 DOCUMENT

There were no Amendments to the TFL 23 Document in 2003.

12.0 2003 INTERNAL EMS AUDIT / EXTERNAL FPB AUDIT

An EMS (Environmental Management System) Audit of the Arrow Timber Division was conducted on December 4th and 5th, 2003, with follow-up as necessary following the audit dates. The audit scope at Arrow for 2003 included the following:

- Planning Program;
- Silviculture Program and
- Divisional EMS maintenance and administration.

Appendix II.01 2003 Cut Control Volume

APPEND	IX II.01				
		ope & Talbo			
	Arrow L	_akes Timbe	er Divisi	on	
	Annu	al Report fo	r TFL 23	}	
					
	<u> </u>	ut Control -	2003		
Sum of VO	LUME (m3)	IAAC CATECO	DV		
ICENCE	TIMBERMARK	AAC CATEGO Conventional	Partition	14/ 0 D	Crand Tata
FL23	23/1	2,620.2	Partition	W & R	
11 L23	23/103	921.4		18.4	2,638.6
	23/148	921.4		100.7	921.4
	23/152		-	109.7	109.7
	23/153	2 522 4		209.8	209.8
	23/157	3,533.4		136.9	3,670.3
	23/159	2,285.4		254.4	2,285.4
	23/187	2,018.3		351.4	2,369.7
	23/191	1.6		55.2	55.2
	23/197	1.6		365.9	367.5
	23/199	4,295.8		0.46.0	4,295.8
	23/201	0 242 0		946.3	946.3
	23/207	8,342.8		254.0	8,596.8
	23/207	6,683.4		60.8	6,744.2
	23/215	12,986.6			12,986.6
	23/217	6,172.2			6,172.2
	23/223	191.3			191.3
		29,518.2		477.4	29,518.2
	23/228	54.5		477.4	531.9
	23/232	27,612.6			27,612.6
	23/234	45,373.4			45,373.4
	23/235	100.8			100.8
	23/236	10,138.0			10,138.0
	23/240	1,358.9			1,358.9
	23/256			157.7	157.7
	23/257			207.6	207.6
	23/259	30,300.9		405.4	30,300.9
	23/267	20.000.5		105.4	105.4
	23/277	20,929.5		64.3	20,993.8
	23/285			27.3	27.3
	23/287			24.7	24.7
	23/289	6 605 0		65.3	65.3
	23/295	6,665.3			6,665.3
	23/297			8.8	8.8
	23/301	10.000.0		178.1	178.
	23/302	19,693.3		26.1	19,719.4
	23/304	162.8			162.8
	23/333			9.3	9.3
	23/345	4.500.0		45.9	45.9
	23/362	1,599.6			1,599.0

APPEND	IX II.01				
	Po	pe & Talbo	t Ltd.		I
		akes Timb		ion	
, - P		al Report fo			
		ut Control -		<u> </u>	
			2003		
				· · · · · · · · · · · · · · · · · · ·	
	LUME (m3)	AAC CATEGO	RY		
LICENCE	TIMBERMARK	Conventional	Partition	W&R	Grand Total
TFL23	23/363			96.3	96.3
	23/365			167.3	167.3
	23/366	3,354.7		184.5	3,539.2
	23/368	4,918.5			4,918.5
	23/371			824.0	824.0
	23/385		11,554.6	13.7	11,568.3
	23/395	59,345.8			59,345.8
	23/399	22,563.8			22,563.8
	23/402	3,347.9			3,347.9
	23/406	11,235.8			11,235.8
	23/416	6,503.6		227.0	6,730.6
	23/418	1,252.2	4,833.0		6,085.2
	23/422		1,786.2	603.3	2,389.5
	23/483		,	66.2	66.2
	23/491			90.6	90.6
	23/499	3,814.7		23.6	3,838.3
	23/505	2,135.3			2,135.3
	23/529	10,238.5		164.7	10,403.2
	23/577	2,376.9			2,376.9
	BZ001	39.3			39.3
	R07922	40,301.7		591.3	40,893.0
	R10983			17.6	17.6
	T0519A	9,219.2			9,219.2
	T0595A	10.9			10.9
	T0610A	3,569.8			3,569.8
	T0649A			18.0	18.0
TFL23 Tota		427,788.7	18,173.8	6,994.3	452,956.8
Grand Tota	al	427,788.7	18,173.8	6,994.3	452,956.8

Appendix II.03 **Hectares Harvested by Treatment Class**

Pope & Tulbot Ltd. Arrow Lakes Timber Division - 2003 Annual Report - May 2004

APPENDIX II.03					
	Pope &	Talbo	t Ltd.		
Arr	ow Lakes			n	
2003	- Annual	Repor	t for TFL	23	
Area (hecta	res) Harv	ested	by Treatm	ent Type)
Sum of AREA	TREATMENT	CLASS			
LANDSCAPE_UNIT	CCRES	CLEAR	SALVAGE	Grand Total	
Barnes-Whatshan	303.4	15.4		318.8	
Cayuse	34.1			34.1	
Fosthall	56.3			56.3	
Gladstone	37.5		3.4	40.9	
Halfway	77.8		8.6	86.4	
Johnston	223.4	9.5		232.9	
Trout	78.6			78.6	
Vipond	321.0	19.1	96.4	436.6	
Woden	276.9	20.3	6.2	303.4	
Grand Total	1409.1	64.3	114.6	1588.0	
	89%	4%	7%	100%	

Appendix II.04 **Hectares Harvested by Age Class**

APPENDIX II.04									
		e & Talbo							
Arrow Lakes Timber Division 2003 - Annual Report for TFL 23									
		,		0.000					
Sum of AREA	AGE CLASS			· · · · · · · · · · · · · · · · · · ·					
LANDSCAPE_UNIT	Age Class 5	Age Class 6	Age Class 7	Age Class 8	Age Class 9	Grand Total			
Barnes-Whatshan	0.1	29.9	40.7	245.9	2.2	318.8			
Cayuse	25.8		1.3	7.0	~	34.1			
Fosthall	3.7	19.8	5.2	26.9	0.6				
Gladstone	19.7	0.8	19.8	0.7		40.9			
Halfway	24.5	21.3	8.0	32.5	0.1	86.4			
Johnston	157.5	14.1	15.5	45.8		232.9			
Trout		0.0	30.0	47.8	0.8	78.6			
Vipond	41.6	123.2	153.4	116.1	2.3	436.6			
Woden	158.7	98.8	13.5	32.3	0.0	303.4			
Grand Total		307.9	287.3	555.0	6.1	1588.0			
	27%	19%	18%	35%	0%	100%			
Age Class Key									
Age Class 5	81-100 years								
Age Class 6									
Age Class 7	121-140 years								
Age Class 8	141-250 years								
Age Class 9	251+ years								

Appendix II.05 **Hectares Harvested by Site Index Class** Pope & Talbot Ltd. Arrow Lakes Timber Division ~ 2003 Annual Report ~ May 2004

APPENDIX II.05										
Pope & Talbot Ltd.										
Arrow Lakes Timber Division										
2003 - Annual Report for TFL 23										
Area (hectares) Harvested by Site Index Class										
Sum of AREA	ADJ SI GROUP									
LANDSCAPE UNIT	GOOD	MEDIUM	POOR	LOW	Grand Total					
Barnes-Whatshan	40.9	229.1	48.5	0.2	318.8					
Cayuse	1.0	15.7	4.7	12.8	34.1					
Fosthall	24.5	16.3	15.5		56.3					
Gladstone	12.7	26.3	2.0		40.9					
Halfway	25.5	34.3	25.2	1.4	86.4					
Johnston	150.9	68.2	13.4	0.4	232.9					
Trout	22.6	42.3	13.7		78.6					
Vipond	151.9	195.5	69.7	19.4	436.6					
Woden	207.5	91.4	0.0	4.5	303.4					
Grand Total	637.5	719.1	192.8	38.7	1588.0					
	40%	45%	12%	2%	100%					

Appendix II.06 Tree Seed Register as of December 31, 2003

APPEN	DIX II.06							
					_			
				& Talbo				
			ow Lake					
		2003	<u>- Annu</u>	al Repo	rt for TF	L 23		
			See	dlot Lis	ting			
			(Ap	ril 14, 20	004)		-	
Sp.	Seedlot	Genetic Class	Mean Elev.	Min. Elev.	Max. Elev.	Collection Year	Total Grams	Trees (k)
	42054	В	550	350	850	1996	6,232	77.7
BG	42067	В	800	600	1100	1997	5,343	53.2
	44018	В	750	550	1050	1999	20,216	292.1
	44019	В	900	700	1200	1999	18,043	242.5
	Total F	or Species:					49,834	665.5
	Totali	- Openies.					45,034	
BL	48045	В	1650	1450	1950	2002	5,604	89.2
	42072	В	1700	1500	2000	1997	174	4.8
	Total F	or Species:					£ 770	94.0
	10411	or opecies.					5,778	34.0
	42083	В	900	700	1200	1997	1,658	620.6
CW	42084	В	1150	950	1450	1997	1,060	440.6
	Total	C					2 = 42	
	Total F	For Species:					2,718	1,061.2
FDI	05458	В	732	532	1032	1983	143	5.9
	05729	В	701	501	1001	1987	18,226	830.9
· · · · · · · · · · · · · · · · · · ·	05744	В	1050	850		1988	2,085	90.7
	05746	В	950	750	L	1988	131	6.9
	30604	В	650	450	950	1990	35,365	1,409.0
	30605	В	750	550	1050	1990	18,794	966.8
	31407	В	800	600	1100	1990	14,839	690.2
	33331	В	530	330	830	1990	5,245	229.4
	33332	В	630	430	930	1990	5,167	226.0
	33333	В	720	520	1020	1990	5,651	257.6
	33337	В	720			1990	5,703	308.3
	33338	В	550				1,555	80.8
	33339	В	650		 		1,139	52.9
	33340	В	750				2,835	129.2
<u> </u>	33341	В	850			·	5,949	263.0
	33342	В	950				13,924	701.6
	33343	В	1050				150	7.0
	33344	В	810	 			6,446	311.6
	33345	В	900				7,840	382.7
L.,	33349	В	550	350	850	1990	6,618	292.5

APPENDIX II.06 Pope & Talbot Ltd. **Arrow Lakes Timber Division** 2003 - Annual Report for TFL 23 **Seedlot Listing** (April 14, 2004) Genetic Collection Total Sp. Seedlot Mean Elev. Min. Elev. Max. Elev. Trees (k) Class Year Grams 1.5 **Total For Species:** 157,838 7,244.5 LW В 2,062 223.5 В 4.0 В 18.2 В 2,354 79.3 В 1,024 54.2 В 5,471 219.7 В 3.2 В 1,571 57.8 В 27.7 В 8.0 В 28.4 В 10,078 512.6 **Total For Species:** 23,756 1,229.4 PLI В 6.049 758.4 В 9.2 В 7,982 914.2 В 24.8 В 3,981 687.5 В 3,699 625.2 В 5,197 913.9 В 125.7 В 8,921 1,187.3 В 29.2 В 77.6 В 79.3 В 48.8 B+ 2,728 394.4 В 3,353 453.1 B+ 117.7 В 71.8 В 59.1 В 1,681 262.4

APPENDIX II.06 Pope & Talbot Ltd. **Arrow Lakes Timber Division** 2003 - Annual Report for TFL 23 **Seedlot Listing** (April 14, 2004) Genetic Collection Total Sp. Seedlot Mean Elev. Min. Elev. Max. Elev. Trees (k) Class Year Grams 42017 В 1000 900 1300 1995 944 145.2 42087 В 950 850 1250 1995 1,547 223.0 42100 В 1000 900 1300 1997 2,498 386.5 46091 В 1280 1180 1580 1997 100 12.1 46098 В 1800 1700 2100 1997 2,385 360.5 **Total For Species:** 56,069 7,966.9 PW 06957 1204 1450 1994 165 2.8 60419 Α 950 1 1450 1997 6,826 84.2 61227 Α 975 1 1400 1998 1,529 24.0 61229 Α 975 1 1400 2000 33.4 2,300 61230 Α 975 1 1400 2001 2,042 36.8 61231 Α 975 1400 2002 1,089 17.7 **Total For Species:** 289.388 4.274.9 PΥ 30455 В 905 705 1205 1991 421 3.1 31821 В 840 640 1140 1991 14,814 98.3 32742 В 840 640 1140 1991 18,007 119.5 33354 В 660 460 960 1991 124 0.9 40370 В 875 675 1175 1997 3,518 27.5 42001 В 600 400 900 1994 33,275 114.1 42004 В 700 500 1000 1994 12,705 65.4 44020 В 1000 800 1300 1999 32,562 241.6 **Total For Species:** 115,426 670.4 SX 02431 В 1463 1263 1863 1974 2,706 266.4 02432 В 1463 1263 1863 1974 2,296 215.9 05459 В 777 577 1177 1983 21,707 3,615.1 05740 В 1400 1200 1800 1988 13,990 2,650.4 05741 В 1500 1300 1900 1988 10,822 1,485.2 05743 В 1200 1000 1600 1988 6,234 970.7 30318 В 746 546 1146 1990 43,743 5,578.7 33336 В 1290 1090 1690 1990 639 115.0 33355 В 1100 900 1500 1991 11,223 2,226.8

990

1590

1991

5,452

1,075.0

1190

33356

В

APPEN	IDIX II.06			· .			· I	
			Pope	& Talbo	t Ltd.			
		Arı	ow Lake			ion		
			- Annu					
				dlot Lis				
-	7			ril 14, 20				
Sp.	Seedlot	Genetic Class	Mean Elev.	Min. Elev.	Max. Elev.	Collection Year	Total Grams	Trees (k)
	33357	В	1680	1480	2080	1991	14,222	1,550.4
	33366	В	1370	1170	1770	1991	9,530	1,742.2
	33367	В	1280	1080	1680	1991	1,539	261.5
	33368	В	1190	990	1590	1991	5,337	998.6
	Total F	or Species:					149,440	22,751.9
	Total F	or Division:						45,958.7

Appendix II.07
Summary of Artificial Reforestation as of December 31, 2003

APPENDIX II.07 T.F.L. # 23 **SUMMARY OF ARTIFICIAL REFORESTATION** As of December 31, 2003 **GROSS HECTARES PLANTED GROSS HECTARES DIRECT SEEDED GROSS AREA (ha)** Revelstoke Arrow Revelstoke **Arrow** ARTIFICIALLY Year Forest District Forest District Total Year Forest District Forest District Total REFORESTED 1957 4.9 1957 4.9 1961 24.3 24.3 1961 24.3 1962 61.5 61.5 1962 TRIAL 61.5 1963 16.2 16.2 1963 16.2 1964 15.4 79.3 94.7 1964 8.1 8.1 102.8 1965 132.4 27.9 160.3 1965 160.3 1966 32.8 63.2 96.0 1966 96.0 1967 42.5 68.8 26.3 1967 8.1 8.1 76.9 1968 55.1 42.1 97.2 1968 97.2 1969 161.1 161.1 1969 161.1 1970 370.9 370.9 1970 30.4 30.4 401.3 1971 168.4 168.4 1971 168.4 1972 170.9 29.1 200.0 1972 200.0 102.8 1973 166.0 268.8 1973 268.8 1974 138.1 138.1 1974 138.1 1975 312.6 466.8 779.4 1975 779.4 1976 336.4 214.2 550.6 1976 550.6 1977 95.5 594.0 689.5 1977 689.5 1978 401.2 544.1 945.3 1978 945.3 1979 853.0 177.2 1.030.2 1979 1,030.2 1980 406.7 565.9 972.6 1980 972.6 1981 983.5 983.5 1981 2.2 2.2 985.7 1982 777.3 777.3 1982 777.3 1983 158.5 678.5 837.0 1983 837.0 1984 1,005.5 1,121.1 115.6 1984 1,121.1 1985 248.5 860.8 1,109.3 1985 1,109.3 1986 780.8 750.4 1,531.2 1986 1,531.2 1987 847.0 660.7 1,507.7 1987 1,507.7 1988 1,158.3 1,270.3 2,428.6 1988 2,428.6 1989 1,423.8 2,428.3 3,852.1 1989 3,852.1 1990 886.4 4.407.1 5,293.5 1990 5,293.5 1991 1,667.1 2,471.9 4,139.0 1991 4,139.0 1992 485.2 1,373.0 1,858.2 1992 1.858.2 1,452.6 1993 7.7 1.444.9 1993 1,452.6 1994 367.8 1,595.2 1,963.0 1994 1,963.0 1995 185.9 1,733.9 1995 1,919.8 1,919.8 1996 92.8 1,722.4 1,815.2 1996 1,815.2 1997 159.8 1,423.4 1,583.2 1997 1,583.2 1998 51.8 1,464.5 1,516.3 1998 1,516.3 1999 53.2 1,801.3 1,854.5 1999 1,854.5

2,022.8

2,598.2

2000

2001

2000

2001

55.0

144.6

1,967.8

2,453.6

2,022.8

2,598.2

APF	PENDIX II.0	7						
			-	T.F.L	. # 23	<u>. </u>	l	
		SUMMA	RY OF	ARTIFIC	IAL REF	ORESTA	TION	***
·			As	of Decem	ber 31, 2	003		
	GROSS HEC	TARES PLANTE	D	GR	OSS HECTARES	DIRECT SEED	ED	GROSS AREA (ha)
	Revelstoke	Arrow			Revelstoke	Arrow		ARTIFICIALLY
Year	Forest District	Forest District	Total	Year	Forest District	Forest District	Total	REFORESTED
2002	83.2	2,431.5	2,514.7	2002				2,514.7
2003	53.5	1,904.2	1,957.7	2003				1,957.7
	14,351.4	39,183.9	53,535.3		46.6	2.2	48.8	53,584.1
	cjs							
	6/3/2004							

Appendix II.09			
Summary of Pre-C	Commercial Sta	nd Treatment a	s of December 3

APPE	NDIX II.09		1								
-		1			T.F.L	. #23	<u></u>		<u> </u>		•
	SUMMARY OF PRE-COMMERCIAL STAND TREATMENT										
<u> </u>	AS OF DECEMBER 31, 2003										
HECTARES BY TREATMENT TYPE (1) 4 2 2 3											
				BRUSHING		T		ŕ	a	J	
	PRE-COMMERCIAL	JUVENILE	CONIFER	&		PRUNING		RUNING	DECIDUOUS	RESIDUAL	
YEAR	THINNING	SPACING	RELEASE	WEEDING	PRIMARY	SECONDARY	PRIMARY	SECONDARY	CONTROL	FALLING	TOTAL
1980		3	- 11 2 1		0						3
1981		11			0						11
1982		31	7	98	0	111					136
1983	399	171	23	51	3	131	6		87	45	785
1984	57	185	266		0	443		285	123	15	646
1985	88	115	3	43	6	116				594	849
1986	47	98	2	12	24	14				79	262
1987		188	13		0	201				192	393
1988		102	36	67	0	139			36	120	361
1989		50		331	0						381
1990		207		1,954	0	40					2,161
1991	3	152		3,687	0						3,842
1992		18		2,521	6		2	18			2,547
1993		18		2,456	21	19					2,495
1994		31		1,355	165	17					1,551
1995		7		1,625	570	0					2,202
1996	0	95	0	1,436	492	0	13	0	0	0	2,036
1997	0	263	0	1,724	296	0		0	0	0	2,283
1998	0	265	0	1,508	282	0	0	0	0	0	2,055
1999	0	38	0	1,399	234	0	0	0	0	0	1,671
2000	0	24	0	1,721	0	0	0	0	0	0	1,745
2001	0	0	0	1,408	0	0	0	0	0	0	1,408

APPE	NDIX II.09										
	T.F.L. #23										
	SUMMARY OF PRE-COMMERCIAL STAND TREATMENT										
	AS OF DECEMBER 31, 2003										
				HECTA	I RES BY TRE	ATMENT TYPE	(1)				
				4		2		2		3	
	PRE-COMMERCIAL	JUVENILE	CONIFER	BRUSHING &	PW F	RUNING	FIR P	RUNING	DECIDUOUS	RESIDUAL	· · · · · ·
YEAR	THINNING	SPACING	RELEASE	WEEDING	PRIMARY	SECONDARY	PRIMARY	SECONDARY	CONTROL	FALLING	TOTAL
2002	0	15	0	787	186	0	0	0	0	0	989
2003	0	7	0	410	43	0	0	0	0	0	460
TOTALS	594	2,094	350	24,593	2,328	1,231	21	303	246	1,045	31,272
1	For areas where a	combination	of treatment	s were applie	d, the total	area (rounded	to the neare	est hectare) wa	s defined by th	e primary tre	atment
	type.										
2	PRIMARY: Refers										
	SECONDARY: Refe	ers to areas	where prunir	ng was carrie	d out concu	rrently with an	associated	primary treatm	ent.		
	The later areas do r	not contribute	e to the total	treatment he	ctares listed	d.					
3	The 1984 hectares	given for ded	ciduous seed	tree control	are approxi	mate net hecta	ires.				
	Gross hectares wer	e essentially	the cut bloc	k size while n	et hectares	were the appr	oximate por	tions of the cu	t blocks treated	l.	
4	Includes Sheep Gra										

Appendix II.10 2003 Forest Investment account (FIA) summary of expenditures for the year ending March 31, 2003 Pope & Talbot Ltd. Arrow Lakes Timber Division - 2003 Annual Report - May 2004

APPENDIX II.	10										
			Pope & Talbot Ltd.								
			w Lakes Timber Division								
	2003-2004 FOREST INVESTMENT ACCOUNT										
		INVESTME	NT SCHEDULE #SOTFL234217			,					
Component	Activity Area	Eligible Activities	Project Description	FIA Project#	Outputs	Total Cost*					
	Land Base Investment	2003-2004 LBIR Preparation	LBIR document to guide FIA project funding allocation for 2003-2004 fiscal year.	4217011	1 document	\$ 2,117	'.50				
	Rationale (LBIR)	2004-2005 LBIR Preparation	LBIR document to guide FIA project funding allocation for 2004-2005 fiscal year.	4217022	1 document	\$ 770	.35				
	Sustainable Forest Management Planning	Preparation of SFM Plan Version 1.0	Further development of the sustainable forest management framework into Version 1.0 of the SFM Plan	4217001	1 report	\$ 9,904.	00				
		Analysis	Representation analysis of ecosystem clusters in an unmanaged state	4217002	report and database	\$ 12,625.0	00				
Strategic Resource		Management Implications	Assessment of the operational implications of strategic timber supply analyses by mapping current operational conditions.	4217018	report	\$ 40,700.8	80				
Planning		Social & Economic Criteria & Indicator Development	Identification and selection of potential social and economic indicators for TFL 23	4217015	report	\$ 8,455.	13				
		TFL 23 Spatial Analysis	Update of the KBLUP spatial analysis	4217019	report / GIS	\$ 11,789.0	00				
	Management Unit	STRIP	Development of the decision-making framework to link "on the ground" forest management activities with higher-level landscape objectives.	4217012	LU reports	\$ 12,488.5	50				
	Strategies		Landscape and stand level assessments of caribou habitat to support the TFL 23 LUP Strategy and SFMP ecological criteria.	4217006	Planning unit reports and maps	\$ 42,355.4	40				
			MPR management strategy and TEL 23 Forest		report and maps	\$ 59,096.3					
	TOTAL				STATION.	\$ 200,302.0	X				
Infrastructure	Roads		Monitoring and maintenance of previous FRBC and FIA road deactivation	4217005	70 km	\$ 9,645.8	32				

APPENDIX II.1	0							
			Pope & Talbot Ltd.					
			w Lakes Timber Division					
		2003-2004 FG	DREST INVESTMENT ACCOUNT					
		INVESTME	NT SCHEDULE #SOTFL234217			1		
Component	Activity Area	Eligible Activities	Project Description	FIA Project#	Outputs		Total Cost*	
	TOTAL					\$	9,645.82	
Restoration and Rehabilitation	Riparian	Prescriptions	Wilkie Face Tributary channel restoration prescription and works	4217013	1 site	\$	4,410.99	
	Terrestrial (roads, gullies, ecosystems)	Assessments, Treatments	Permanent deactivation and bridge removal of non-status roads	4217014	3 sites	\$	12,667.18	
177	TOTAL		医克萨斯氏征 医全角性 克拉克 化二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十		Asia at a manual and	\$	17,078.17	
		PEM - Habitat Site Investigations	RIC standard field sampling in support of PEM verification and QA	4217003	78 plots	\$	50,020.58	
	Resource Inventories Fi	Resource Inventories	Fish & Fish Habitat	Phases 1-6 Reconnaissance (1:20,000) FFHI, Follow-up Sampling, and Digital Mapping Updates	4217004	226 sites; 4 reports	\$	148,566.03
Information Gathering and		Biodiversity - Wildlife Habitat Mapping	Central Selkirk Caribou Population Census	4217017	report	\$	19,452.00	
Management	Monitoring	Terrestrial, Biological and Physical Monitoring	Fish River Lichen Study	4217021	report	\$	12,622.40	
	Forest Dynamics	G&Y	PSP Re-measurements on TFL 23	4217008	22 plots	\$	23,162.26	
	Data Management	Shared Data Exchange	Data transformation from GENUS to RESULTS and FTA	4217007	2 reports	\$	7,000.00	
	TOTAL	(中国大学中国教学中医学学 学)				·\$··.	260,823.27	
			FIA Program Delivery	No disease To the same To the		\$	44,921.32	
	PARTY OF THE PARTY OF	PROGRAM TOTAL				\$ 1	532,770.62	