

**ANNUAL REPORT ON
PROGRESS IN FOREST MANAGEMENT
FOR THE YEAR 1996
TREE FARM LICENCE NO. 39**

MacMILLAN BLOEDEL LIMITED

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1.0 HIGHLIGHTS

- Harvesting
MacMillan Bloedel harvested 3 133 897 m³, exclusive of residue, in 1996.
- Cut Control
Harvesting in the first year of the 1996-2000 cut control period was 93 percent of the AAC for 1996.
- Contractor Commitment
Total contractor production was 1 587 167 m³; a compliance of 117.9 percent.
- Fire Occurrence
Four fires, burning 30 ha, were reported in 1996.
- Site Preparation
A variety of site preparation treatments were carried out on 901 ha. Treatments included burning, scarification, 3 metre sapling knock-down, and alder seed tree control.
- Planting
A total of 4 480 ha was planted, including 396 ha of fill-planting.
- Brushing and Weeding
A total of 864 ha was brushed and weeded.
- Stand Tending
Stand tending was completed on 3 070 ha. Treatments included spacing, fertilizing, pruning and hydroseeding.

2.0 PRODUCTION AND CUT CONTROL

2.1 HARVESTING

2.11 MB Area and Volume Cut

• Private	55 069 m ³	(2%)
• Timber Licenses	533 014 m ³	(17%)
• Crown	2 545 814 m ³	(81%)
• TOTAL (Log Scale)	<u>3 133 897 m³</u>	(100%)
• Area Logged	3 833 ha	

A detailed summary of timber harvested by division, block, tenure, and species is shown in Table 1 of Appendix I.

2.12 Hardwood Logging

The logging of hardwood stands in preparation for conversion to conifers continued in Block I. The area of converted stands over the last five years is shown below:

<u>Year</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>
	(ha)	(ha)	(ha)	(ha)	(ha)
Stands classed as hardwood in Forest Inventory	50	43	42	48	28
Stands classed as conifer in Forest Inventory but included within areas logged	<u>27</u>	<u>11</u>	<u>16</u>	-	-
Total	<u>77</u>	<u>54</u>	<u>58</u>	<u>48</u>	<u>28</u>

2.13 SBFEP Volume Harvested

Volume harvested on SBFEP timber sales totaled 151 798 m³ including of residue, as shown in Table 2 of Appendix I. Note that the SBFEP harvest volumes are not required for the cut control calculations relative to MacMillan Bloedel's AAC allocation.

2.14 Proportion of Log Scale Volume by Species and TFL Block (%)

Species	Block							
	I	II	III	IV	V	VI	VII	All
Douglas-fir	43	2	1	1	2	-	-	7
Cedar	19	13	31	11	24	39	31	23
Cypress	2	7	-	8	3	9	8	7
Spruce	-	-	3	3	3	11	13	5
Hemlock	24	45	59	53	38	41	32	41
Balsam	7	33	5	24	30	-	16	16
Other	<u>5</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1</u>
TOTAL	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>

2.2 RESIDUE

Residue is measured and reported annually for the TFL. Residue applied to Cut Control is the volume processed through the Stumpage and Royalty system in the reporting year, regardless of the year scaled.

A total of 1 562 plots was established on 3 989 ha in 1996 to measure residue and waste for Cut Control purposes. A total of 159 971 m³ of residue was charged to the AAC in 1996.

2.3 CUTTING BALANCE

This is the first year of a new Cut Control period running until 2000. The harvest in 1996 was 92.9% of the AAC. Cut Control status is shown below:

	<u>1996</u>
TFL 39 AAC (m ³)	3 707 678
Less: SBFEP	162 218
MB Net AAC (m ³)	3 545 460
Actual Cut (m ³)	
Log Scale	3 133 897
Residue	<u>159 971</u>
<u>TOTAL</u>	<u>3 293 868</u>
Percent of AAC	92.9%

1996 harvest levels compared to AAC contributions are shown below:

Block	<u>AAC</u> <u>Contribution</u>	<u>SBFEP</u> <u>Allocation</u>		<u>MB</u> <u>Allocation</u>	<u>Volume</u> <u>Harvested</u> <u>including</u> <u>Residue</u>	<u>Variance</u>	
	<u>m³</u>	<u>m³</u>	<u>MoF District</u>	<u>m³</u>	<u>m³</u>	<u>m³</u>	<u>%</u>
1	445 000	21 462	Sunshine Coast	423 538	469 515	45 977	11
2	1 335 000	58 654	Campbell River	1 276 346	1 110 190	(166 156)	(13)
3,4	415 000	14 884	Port McNeill	400 116	442 651	42 535	11
5	100 000	3 680	Campbell River	96 320	104 943	8 623	9
6	1 210 000	56 342	Queen Charlotte	1 153 676	983 085	(170 591)	(15)
7	195 000	7 214	Mid - Coast	187 786	183 484	(4 302)	(2)
Decid	<u>40 000</u>	<u>-</u>		<u>40 000</u>	<u>n/a</u>	<u>n/a</u>	
TOTAL	<u>3 740 000</u>	<u>162 218</u>		<u>3 577 782</u>	<u>3 293 868</u>	<u>(283 914)</u>	(8)

The deciduous volume is not specifically allocated by Blocks. However, the deciduous volumes logged in 1996 are included in the volume harvested figures.

2.4 CONTRACTOR PRODUCTION

2.41 1996 Contractor Commitment

The percent compliance achieved under the contractor clause regulation was 117.9 percent.

Summary of Contractor Production (m³)

-	Full		1 198 628 m ³	76%
-	Phase			
-	Roads	322 182		
-	F & B	10 772		
-	Yarding	33 975		
-	Loading	15 583		
-	Hauling	5 862		
-	Booming	<u>165</u>	<u>388 539 m³</u>	<u>24%</u>
-	TOTAL		<u>1 587 167 m³</u>	<u>100%</u>

In Management Plan 6, Amendment 1, a decision was made to continue the TFL 7 contractor commitment. Thus, 19.97% of the production in the amalgamated Block II of TFL 39 was to be contracted. The 1996 production exceeded this standard, at 33.9% (359 269 m³ of 1 061 307 m³).

3.0 DEVELOPMENT AND PLANNING

3.1 ENGINEERING DEVELOPMENT

3.11 Road Construction (km)

<u>Block</u>	<u>Roads Built</u>	<u>Debuilt Roads¹</u>
I	34.8	14.9
II	78.9	9.0
III	14.5	-
IV	36.0	6.0
V	4.5	3.1
VI	112.6	7.8
VII	<u>17.0</u>	<u>—</u>
	TOTAL	298.340.8

Table 3 of Appendix I details the class of road by division and block.

3.2 FOREST INVENTORIES

3.21 Inventory Maintenance

The annual updating of the forest cover and volume data is required to maintain current information for management and harvesting decisions. Updated information includes harvesting, reforestation, silvicultural treatment, road construction and land acquisition or disposal activities. The Inventory Revisions to December, 1994 and December 1995 were completed in 1996.

3.22 Cruising

Operational cruising for Cutting Permit Applications was completed on 3 885 ha for 76 Cutting Permits during 1996.

The 5-year program of cruising second-growth stands between the ages of 30 and 100 in Block I continued into the third year. The intent of this inventory is to upgrade the existing stand information. A total of 7 643 ha was cruised in 1996.

Additional cruising in stands 31+ years old was done in Menzies Bay Division (3600 ha) and Port McNeill Division (1680 ha).

¹ Debuilt roads are defined as those in which the road structure has been rehabilitated as close to the original land profile as is feasible and, where practical, restored to forest growing production.

4.0 PROTECTION

4.1 FIRE PROTECTION

4.11 Fire Occurrence

Four fires in TFL 39 burned a total of 30 ha in 1996. An escaped slash fire in Block III, Port McNeill Division, burned 30 hectares of stocked cut-over land. The other three fires were spot fires of less than 1 hectare and occurred on NSR areas.

4.12 Detection

Fire watch patrols were carried out by ground personnel following daily work shutdown at each operating location during periods of high fire danger.

Forest Industries Flying Tankers flew 20 fire patrols and 24 fire watch missions during periods of high fire danger. These were all in Block II.

During periods of fire closure and on weekends and holidays in hazardous weather, ground patrols were carried out on accessible areas of the License.

4.13 Weather Stations

MB operates a number of weather stations, either privately or in cooperation with the BCFS. Two MB stations are maintained in Eve River, four stations in Kelsey Bay, one in Menzies Bay, four in Stillwater and five in QC Division. The Forest Service maintains one station in Menzies Bay Division.

4.2 PEST MANAGEMENT

Douglas-fir bark beetle was detected in small patches in the lower Powell Lake area in Block I. Helicopter salvage operations continued in 1996 and into the spring of 1997 to harvest infected trees. As part of the control strategy, pheromone trap logs were placed in the salvage areas to attract the beetles and were removed prior to beetle maturation and flight. Salvage and trap log removal is expected to be complete in early 1997.

Neodiprion spp. (sawfly) is causing severe defoliation in the Kunnum Creek area of Eve River Division and also parts of Menzies Bay and Kelsey Bay Divisions, all in Block II. Salvage plans are being formulated.

At Phillips River, Block V, the sawfly outbreaks first noticed in 1995, expanded in 1996. Major salvage plans have been proposed.

Balsam appears to be the major target of the sawfly in all of the above areas, although in some locations, hemlock is also attacked.

A major concern is that even if the sawfly defoliation subsides without mortality to the trees, this weakened condition will make them susceptible to attack and mortality from bark beetles.

Evidence of spruce weevil have been found on Benson Mountain in Block IV, Port McNeill Division.

Mistletoe continues to be a problem in most openings in Eve River Division. Site preparation for planting on these areas includes felling of infected trees.

5.0 MANAGEMENT OF THE SECOND GROWTH FOREST

5.1 SURVEYS AND ASSESSMENTS

A total of 28 816 ha, consisting of recently logged land and older areas still classified as Area Awaiting Reforestation (AAR), and areas previously classified as Satisfactorily Restocked (SR), was surveyed to determine:

- Site preparation or other silvicultural treatments needed
- Natural regeneration to stocking standards
- Area requiring planting and extent of existing natural regeneration
- Need for fill-planting to meet stocking targets
- Data to confirm or revise inventory stand descriptions.

Details are:

• Initial survey following logging	5 418	ha
• Stocking surveys prior to planting	3 144	
• First year survival surveys	4 801	
• Regeneration performance of SR stands	7 022	
• Stand maintenance prescription surveys	4 553	
• Post treatment evaluation surveys	<u>1 878</u>	
Total	<u>23 816</u>	ha

Details of area surveyed by division and block are shown in Tables 7 and 11 of Appendix I.

Comprehensive records of AAR status were maintained and a statement showing changes in AAR status during the year was prepared.

An Area Restocking Statement to December 31, 1996, is found in Table 8 of Appendix I.

5.2 STAND ESTABLISHMENT

5.21 Site Preparation

The following site preparation treatments were completed:

- Burning
Port McNeill Division broadcast burned 13 hectares. Burning of accumulated slash to improve reforestation potential was done on 102 ha in all Blocks except VI.
- Scarification
Mechanical scarification was carried out on 86 ha by excavators.
- Three metre Knockdown
Malformed residual sapling were felled on 692 ha using chain saws.

- Alder Seed Tree Control
Eight ha were treated to control alder seed trees using a variety of methods, including chain saw, hack and squirt and girdling.

Area details of site preparation activities by division and block are listed in Table 5 of Appendix I.

5.22 Reforestation

5.221 Planting

- Area Planted
Planting on TFL 39 in 1996 is summarized below:

<u>Division</u>	<u>Block</u>	<u>Planting of AAR</u> (ha)	<u>Fill-Planting</u> (ha)
Stillwater	I	476	21
Eve River	II	198	25
Kelsey Bay	II	556	105
Menzies Bay	II	481	119
Port McNeill	III	32	-
Port McNeill	IV	316	37
Stillwater	V	120	57
Queen Charlotte	VI	1 473	2
Port McNeill	VII	<u>432</u>	<u>29</u>
TOTAL		<u>4 084</u>	<u>396</u>

A detailed summary of planting by division, block, tenure, and species is shown in Table 6 of Appendix I.

- Survival Surveys
A total of 4 801 ha of plantation was examined after one growing season and 4 625 ha (96 percent) were deemed to be successfully established. Further regeneration performance examinations are scheduled to confirm establishment. See Table 7 of Appendix I for divisional details.
- Regeneration Performance
After three growing seasons, 3 670 ha of plantations were examined and 3 615 ha (99 percent) were confirmed to be successfully established. See Table 7 of Appendix I for divisional details.

5.222 Natural Regeneration

- Stocking Surveys
A total of 3 144 ha of recently logged land was examined for natural regeneration and to determine planting requirements. A total of 1 238 ha (39 percent) were found to be satisfactorily restocked one year after logging.

- Regeneration Performance

Third-year regeneration performance examinations were carried out on 3 352 ha of naturally restocked lands and 3 236 ha (97percent) were deemed to be successfully established. See Table 7 of Appendix I for divisional details.

5.223 Seed and Planting Stock Inventories

Cone collection from seed orchards amounted to 1.1 hectoliters of western hemlock and 11.5 hectoliters of cedar. Wild collections totaled 21.9 hectoliters of yellow cedar. Seed inventory on December 31, 1996, was 900.2 kg. Planting stock inventory at the end of 1996 was 8 243k seedlings. Sowing requests for the fall/97 and spring/98 totaled 9 129 k trees

5.23 Stand Tending

Divisional activity details are found in Table 9 of Appendix I.

5.231 Brushing and Weeding

A total of 864 ha was treated to control competing vegetation using both manual and chemical methods.

5.232 Spacing

Chain saws were used to space juvenile stands on 749 ha.

5.233 Fertilization

Fertilization was carried out on 1 439 ha. Fertilizer was applied to some plantations both at the time of planting while others received post planting treatment. Aerial applications of fertilizer on older stands was done by Port McNeill Division.

5.234 Pruning

Trees on 18 ha were pruned with handsaws in 1996.

5.235 Erosion Control Seeding

Erosion Control Seeding was done on 260 ha. Stillwater, Eve River, Menzies Bay, Port McNeill and Queen Charlotte Divisions treated roadside and landslide areas to prevent soil erosion. See Table 10 of Appendix I for details.

5.24 Free Growing

A total of 4 668 ha were surveyed for Free-Growing status in 1996. Details are found in Table 11 of Appendix I.

5.25 Silvicultural Audits

MacMillan Bloedel conducts audits to ensure project standards are met. In TFL 39, during 1996, the following audits were completed:

- Four site preparation areas were sampled and all met the established standards.
- Planting quality on three of the four planting sites audited were of standard quality or above. A combination of poorly planted trees and inadequate spacing were found on the fourth site.

5.3 FUNDING CREDITS

Funding Credits received by MacMillan Bloedel in 1996 totaled \$2 341 362. Industry Outstanding funds were used for surveys, mechanical site preparation, and brushing and weeding where the Ministry of Forests still had funding responsibilities. FRDA and Forest Renewal funding were used for road deactivation, spacing, and watershed assessment projects.

Details by division, block and project are shown in Table 13 of Appendix 1.

6.0 FOREST SCIENCE RESEARCH

Operational research is carried out in several of MacMillan Bloedel's divisions and managed forest units. Results can be applicable to TFL 39 when species, site index, terrain and biological conditions are considered.

6.1 FOREST RENEWAL

Work continued on revamping the Plantation Assessment Database Program in order to better utilize data. This program, initiated in 1988, is designed to provide reliable data on seedling survival and performance in stands 10 years and younger and now contains 31 000 seedling entries. Data is derived from plantation plots established specifically for this program as well as data from research installations such as MASS. The work done in 1996 concentrated on documenting response to fertilization at the time of planting and forecasting the time to reach a Free Growing status.

Forest Renewal research in the Montane Alternative Silvicultural Systems (MASS) project focuses on performance of Douglas fir, hemlock and western red cedar in various silvicultural systems in higher elevations forests. Activities/results during 1996 included:

- A seedling experiment with two species (amabilis fir and western hemlock) and four treatments (fertilization, vegetation control, both and none) was established during the year in all five silvicultural settings (clearcutting, green-tree retention, shelterwood and patch cutting).
- The number of microclimate stations was increased to provide two stations in each silvicultural setting.
- Preliminary results in the species comparison trial indicate the single most significant growth factor during the first three years is nitrogen availability. This effect has persisted, but diminished through the three growing seasons. The reduction in growth response to fertilization is most apparent in the western hemlock in the open-grown clear-cut settings.
- Seedling growth has not been significantly different on the various silvicultural system settings, excluding the exceptionally slow growth in the old-growth control area. This is

consistent with the collected microclimate evidence which indicated more similarity in temperature and light regimes than was expected.

6.2 ECOLOGY

Ten-year measurements were completed in 1995 for the project studying the effects of prescribed burning on some coastal BC sites. Preliminary results indicate the highest intensity burns produced the best growth of Douglas-fir, western red cedar and yellow-cedar. However, these fires consumed significant amounts of nitrogen and other nutrients that may affect long-term productivity. Partial data analysis of the 10-year results was completed in 1996 and the final reports will be published in the near future.

Ecology research continued on the Montane Alternative Silvicultural Systems (MASS) project. Windthrow is present in all of the cut blocks, but varied between treatments. After three years, green tree retention has lost an average of 6.2 sph; patch cut, 4.3 sph; shelterwood, 11 sph and clear-cut, 5.8 sph due to windthrow. Most of this windthrow occurred during the first year after cutting and was negligible during the third year, in spite of the severe windstorm of October 1996. The total windthrow in the green tree retention blocks is 34% and 10% in the shelterwood settings. The shelterwood blocks continue to have the greatest cover of advanced regeneration, shrubs and mosses. After three years of collecting, the seed fall was the greatest in the first year. However this year, for the first time, the highest seed fall occurred in the shelterwood areas, not the old growth control areas. Hemlock seeds continue to be the most abundant in all treatment areas. The greatest proportion of heavy seeded species (amabilis fir and yellow-cedar) were found in the old growth and partially cut areas.

A study to examine microclimate variation along old growth clear-cut edges was initiated in 1996 in TFL 44. Air and soil temperature were measured at specified distances on either side of the cut boundary. The results quantified the moderating effect of the forest canopy on maximum and minimum temperatures. Results of this study are applicable to TFL 39.

MB has participated in a multi-agency cooperative Salal-Cedar-Hemlock Integrated Research Program (SCHIRP) since 1986. This study is based on sites near Port McNeill. A field guide to site identification and treatment was published in 1996. In March, 1996 a replicate trial was established near Ucluelet to test optimum combinations of species, fertilization, mechanical site preparation and planting density. The new trial will expand the usefulness of the SCHIRP results to a wider range of sites.

A study to test the use of Brush Blankets® on yellow-cedar growth was established at Menzies Bay Division in 1996. Brush Blankets® were installed on one-year old yellow-cedar seedlings. After one year, the blanketed seedlings showed no significant height growth differences over the control seedlings, but had notable gains in basal diameter and volume.

6.3 GROWTH AND YIELD

Remeasurement of permanent sample plots continued in 1996. A total of 141 second-growth plots were measured in TFL 39.

7.0 INTEGRATED RESOURCE MANAGEMENT

Management of non-timber resources in conjunction with timber management is of vital concern to MacMillan Bloedel. Research results or management practices found to be successful in some parts of the company forest tenures may be extrapolated to other areas.

7.1 WILDLIFE

Wildlife management focused on assessment and protection of important habitat. Activities included marbled murrelet habitat surveys in QC Division, and 40 habitat assessments on MB lands.

7.2 FISHERIES

MacMillan Bloedel continued to advise the World Fisheries Trust in the establishment of the International Fisheries Gene Bank. This program freezes and stores sperm for future use and research and will contribute to the preservation of fish biodiversity and the re-establishment of stocks that are at risk.

Restoration projects were initiated on the Tsitika River and Grilse Creek watersheds. Advice was provided for restoration projects located in QC Division and along the Salmon River.

7.3 WATER

Work continued on an ongoing MASS project to identify snow hydrology characteristics in relation to alternative silvicultural systems performance within the elevational rain-on-snow prone montane regions of coastal BC.

Watershed assessments in relation to rate-of-cut studies were conducted in Port McNeill and Queen Charlotte Divisions.

Drainage engineering and channel hydraulic projects were completed in Menzies Bay Division.

7.4 SOILS

A 2-year landslide prediction study was initiated as a collaborative effort with the BC Ministry of Forests. The study will characterize terrain in the Coast Mountains of BC, and develop predictive classification systems/criteria suitable for identifying vulnerable sites prior to logging and road building.

Terrain mapping continued in 1996 with projects in Stillwater (1 000 ha) and Eve River (two mapsheets).

7.5 BIOLOGICAL DIVERSITY

The biodiversity model developed by UBC's Institute for Applied Conservation Biology was incorporated into the GIS system in 1995. Calibration of the model for coastal conditions using PSP data continued in 1996. The sensitivity analysis indicates the model is relatively robust to changes in movement assumptions. Fragmentation estimates are influenced more by distribution of habitat (pattern) than by movement assumptions.

7.6 RECREATION

Eight new campsites were constructed at Keogh Lake, bringing the total campsites in Port McNeill Division to 24. The other two locations are at Alice lake (12 sites) and Pinch Creek (4 sites). Eve River Division maintains a total of 9 sites, located at Junction Pool (5), Tsitika Crossing (1) and Dryland Sort (3). Twenty-two sites are funded by the BCFS in Queen Charlotte Division and are located at Gray Bay (15) and Papa Johns (7). There are 11 campsites on the Powell River Canoe Route where maintenance is funded by Stillwater Division.

8.0 POPLAR PROJECT

Poplar plantations on private land in the TFL occur in Blocks I and II. It is anticipated these areas will be deleted from the TFL in the near future and managed as agricultural land.

9.0 ADMINISTRATION OF THE LICENCE

9.1 TFL 39 AMENDMENTS

No areas were added or deleted from the TFL 39 in 1996.

9.2 TFL 39 ANNUAL REPORT

The 1996 Annual Report is based on data supplied by the Woodlands Divisions of MacMillan Bloedel and the BC Forest Service.

9.3 LOCAL RESOURCE USE PLANS (LRUP)

Yakoun Lake and Yakoun River

No further progress has been made towards furthering the LRUPs for the Yakoun Lake Basin and Corridor areas. In 1997, Queen Charlotte Division staff will review these areas with the Queen Charlotte District staff to:

- establish whether or not LRUPs should proceed in the context of other public involvement processes in the Queen Charlotte Forest District.
- define purpose and procedures and other requirements to be included in the Terms of Reference for these LRUPs, if they are to proceed.

Tlell River

The LRUP for the Tlell watershed, partly within TFL 39, was started in 1996. A facilitator, Mr. Norman McLeod, was appointed late in the year to assist in developing, through consensus of stakeholders, a Terms of Reference for the LRUP.

9.4 MANAGEMENT PLAN NO. 7

The Chief Forester, in his letter of June 27, 1996, approved Management Plan No. 7.

APPENDIX I - Table 1

TFL 39 Volume Harvested in 1996
Based on Cut Control Letter Issued by Vancouver Forest Region
Volumes (m³)

Division	Block	Tenure	ha	Fir	Pines	Cedar	Cypress	Spruce	Hemlock	Balsam	Decid	Total Billed	Residue	Total Cut Control
Stillwater	I	Private	16	3,632		2,193		18	2,565	9	4,936	13,353	748	14,101
		TL	15	90	1	5,050	1,745	8	4,400	1,665	5	12,964	739	13,703
		Crown	501	190,227	228	78,842	8,975	654	99,936	29,263	19,027	427,152	14,559	441,711
		Total	532	193,949	229	86,085	10,720	680	106,901	30,937	23,968	453,469	16,046	469,515
Eve River	II	Private										0		0
		TL	58	5	12	3,216	820	45	29,718	16,063		49,879	557	50,436
		Crown	306	37	30	22,098	16,979	74	129,740	90,229	4	259,191	9,827	269,018
		Total	364	42	42	25,314	17,799	119	159,458	106,292	4	309,070	10,383	319,453
Kelsey Bay		Private	1	4		75			1		144	224		224
		TL	240	5,501	106	46,311	15,415	293	84,988	45,655	197	198,466	6,692	205,158
		Crown	395	4,778	113	16,498	26,650	546	130,848	127,772	162	307,367	24,683	332,050
		Total	636	10,283	219	62,884	42,065	839	215,837	173,427	503	506,057	31,375	537,432
Menzies Bay		Private										0		0
		TL	110	8,443	170	26,486	1,801		32,461	23,346	14	92,721	1,513	94,234
		Crown	194	3,289	23	20,056	14,342	3	64,836	50,816	94	153,459	5,612	159,071
		Total	304	11,732	193	46,542	16,143	3	97,297	74,162	108	246,180	7,125	253,305
Total		Private	1	4	0	75	0	0	1	0	144	224	0	224
		TL	408	13,949	288	76,013	18,036	338	147,167	85,064	211	341,066	8,762	349,828
		Crown	895	8,104	166	58,652	57,971	623	325,424	268,817	260	720,017	40,121	760,138
		Total	1,304	22,057	454	134,740	76,007	961	472,592	353,881	615	1,061,307	48,883	1,110,190
Port McNeill	III	Private										0		0
		TL	108	253	163	47,361	487	683	31,889	5,036	3	85,875	1,123	86,998
		Crown	81	1,744	3	2,397	1	3,450	62,386	3,264	870	74,115	1,052	75,167
		Total	189	1,997	166	49,758	488	4,133	94,275	8,300	873	159,990	2,175	162,165
Port McNeill	IV	Private	2	4		127		96	1,253	246	3	1,729		1,729
		TL	32	1,458	13	7,650	74	121	10,429	5,563	3	25,311	946	26,257
		Crown	263	230	19	22,582	21,724	8,900	128,474	57,704	523	240,156	12,344	252,500
		Total	297	1,692	32	30,359	21,798	9,117	140,156	63,513	529	267,196	13,290	280,486
Stillwater	V	Private										0		0
		TL										0		0
		Crown	114	1,308	30	23,367	3,128	3,205	37,050	28,946	50	97,084	7,859	104,943
		Total	114	1,308	30	23,367	3,128	3,205	37,050	28,946	50	97,084	7,859	104,943
QC	VI	Private	53		3	9,374	7,954	4,826	17,605		1	39,763	1,313	41,076
		TL	112		11	24,513	11,754	6,379	25,141			67,798	2,068	69,866
		Crown	1,041		5,007	321,082	67,218	87,873	331,276		12	812,468	59,675	872,143
		Total	1,206	0	5,021	354,969	86,926	99,078	374,022	0	13	920,029	63,056	983,085
Port McNeill	VII	Private										0		0
		TL										0		0
		Crown	191	3	83	54,165	14,437	23,343	55,248	27,539	4	174,822	8,662	183,484
		Total	191	3	83	54,165	14,437	23,343	55,248	27,539	4	174,822	8,662	183,484
All	ALL	Private	72	3,640	3	11,769	7,954	4,940	21,424	255	5,084	55,069	2,061	57,130
		TL	675	15,750	476	160,587	32,096	7,529	219,026	97,328	222	533,014	13,638	546,652
		Crown	3,086	201,616	5,536	561,087	173,454	128,048	1,039,794	415,533	20,746	2,545,814	144,271	2,690,085
		Total	3,833	221,006	6,015	733,443	213,504	140,517	1,280,244	513,116	26,052	3,133,897	159,971	3,293,868

APPENDIX I - Table 2

TFL 39 SBFEP Timber Harvested - 1996
 Based on Billing from Vancouver Forest Region
 Volume (m³)

BCFS District	Timber Sale	Billed Volume
Pt. McNeill	39536	1,569
QC	43696	27,850
	43996	25,013
	49780	97,367
Total		151,798

Note: Billed Volume includes residue.

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APPENDIX 1 - Table 3

TFL 39 Road Construction Report - 1996

Division	Block	New Construction (km)			Debuilt Road (1) (km)
		Mainline Branch	Spur	Other	
Stillwater	I	10.3	24.5		14.9
Eve	II	2.9	16.3		3.2
Kelsey Bay	II	29.1	12.7		2.1
Menzies Bay	II	14.1	3.8		3.7
	Total	46.1	32.8		9.0
Pt McNeill	III	6.5	8.0		
Pt McNeill	IV	6.8	29.2		6.0
Stillwater	V	2.9	1.6		3.1
QC	VI	28.2	84.4		7.8
Pt McNeill	VII	10.0	7.0		
Total		110.8	187.5		40.8

(1) Debuilt roads are defined as those in which the road structure has been rehabilitated as close to the original land profile as is feasible and, where practicable, restored to forest growing production.

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APPENDIX I - Table 4

TFL 39 Fire Report - 1996

Number and Causes of Fires											
Division	Block	Lightning		Escape Slash		Operational		Public		Total	
		No.	Ha	No.	Ha	No.	Ha	No.	Ha	No.	Ha
Menzies Bay	II					1	spot			1	
Pt McNeill	III			1	30					1	30
QC	VI					2	spot			2	
Total				1	30	3				4	30

Area Burned by Forest Fires (ha)						
Division	Block	Mature	Immature	AAR	NSR	Total
Menzies Bay	II				spot (1)	
Pt McNeill	III			30		30
QC	VI				spot (2)	
Total				30		30

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APPENDIX I - Table 5

TFL 39 Site Preparation - 1996
(Hectares)

Division	Block	Tenure	Broadcast Burn	Burn Accum. (1)	Mechanical	Brush/ Grass Control	Three Metre Knockdown	Alder Seed Tree Control	Drainage Restore	Total Hectares
Stillwater	I	Private Crown		3						3
		Total		3						3
Eve	II	Private Crown		10	11		460			481
		Total		10	11		460			481
Kelsey Bay	II	Private Crown		35	40					75
		Total		35	40					75
Menzies Bay	II	Private Crown		6	9					15
		Total		6	9					15
Total Block	II	Private Crown		51	60		460			571
		Total		51	60		460			571
Pt McNeill	III	Private Crown		15	8			8		31
		Total		15	8			8		31
Pt McNeill	IV	Private Crown	13	21	12					46
		Total	13	21	12					46
Stillwater	V	Private Crown		2						2
		Total		2						2
QC	VI	Private Crown					26			26
		Total					206			206
Pt McNeill	VII	Private Crown		10	6					16
		Total		10	6					16
All Blocks		Private Crown	13	102	86		26	8		26
		Total	13	102	86		666	8		875
							692	8		901

(1) Actual hectares of roadside accumulations burned.

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APPENDIX I - Table 6

TFL 39 Summary of Planting - 1996
(Thousands of trees)

Division	Block	Class	Species	Private		Crown		Total	
				No. Trees	Ha.	No. Trees	Ha.	No. Trees	Ha.
Stillwater	I including 30 yr. reserve	Normal	Df	7.4		238.1		245.5	
			Hw			60.0		60.0	
			Cw	7.2		136.6		143.8	
			Cy			40.9		40.9	
			Ba			47.8		47.8	
			Bg			0.8		0.8	
			Ct			9.2		9.2	
		Total	14.6	15	533.3	461	547.9	476	
		Fill	Df			8.0		8.0	
			Cw			3.5		3.5	
Total				11.5	21	11.5	21		
Eve River	II	Normal	Df			9.9		9.9	
			Hw			36.1		36.1	
			Hm			12.8		12.8	
			Cw			33.9		33.9	
			Cy			49.7		49.7	
			Ss			4.7		4.7	
			Sx			2.9		2.9	
			Ba			49.3		49.3	
			Ds			0.3		0.3	
		Total			199.5	198	199.5	198	
		Fill	Df			9.0		9.0	
			Hm			0.2		0.2	
			Cw			0.4		0.4	
			Cy			4.5		4.5	
			Sx			0.2		0.2	
			PI			2.0		2.0	
			Ds			3.7		3.7	
Ct				0.3		0.3			
Total			20.0	25	20.0	25			
Kelsey Bay	II	Normal	Df	0.5		34.0		34.5	
			Hw			349.7		349.7	
			Cw			16.5		16.5	
			Cy			18.9		18.9	
			Ba			32.8		32.8	
			Bg			2.0		2.0	
			PI			1.6		1.6	
		Total	0.5	1	455.5	555	456.0	556	
		Fill	Df			5.3		5.3	
			Hw			47.4		47.4	
			Cw			1.1		1.1	
Total				65.2	105	65.2	105		

APPENDIX I - Table 6

TFL 39 Summary of Planting - 1996
(Thousands of trees)

Division	Block	Class	Species	Private		Crown		Total		
				No. Trees	Ha.	No. Trees	Ha.	No. Trees	Ha.	
Menzies Bay	II	Normal	Df			176.8		176.8		
			Hw			226.8		226.8		
			Cw			15.2		15.2		
			Cy			135.2		135.2		
			Ba			0.2		0.2		
			Total			554.3		481	554.3	481
		Fill	Df			31.8		31.8		
			Hw			21.7		21.7		
			Cw			3.4		3.4		
			Cy			21.4		21.4		
			Ss			3.1		3.1		
			Ba			1.9		1.9		
			Pl			0.3		0.3		
			Total			83.5		119	83.5	119
Block II Total	II	Normal	Df	0.5		220.7		221.3		
			Hw			612.5		612.5		
			Hm			12.8		12.8		
			Cw			65.7		65.7		
			Cy			203.9		203.9		
			Ss			4.7		4.7		
			Sx			2.9		2.9		
			Ba			82.3		82.3		
			Bg			2.0		2.0		
			Pl			1.6		1.6		
			Ds			0.3		0.3		
			Total	0.5	1	1209.3		1234	1209.8	1235
			Fill	Df			46.1		46.1	
		Hw				69.1		69.1		
		Hm				0.2		0.2		
		Cw				4.9		4.9		
		Cy				27.0		27.0		
		Ss				3.1		3.1		
		Sx				0.2		0.2		
Total			169.0		249	169.0	249			
Pt McNeill	III	Normal	Df			1.5		1.5		
			Hw			4.5		4.5		
			Cw			38.7		38.7		
			Cy			4.4		4.4		
			Ba			1.7		1.7		
			Ss			4.9		4.9		
			Pl			0.8		0.8		
			Ds			0.8		0.8		
			Total			57.2		32	57.2	32

APPENDIX I - Table 6

TFL 39 Summary of Planting - 1996
(Thousands of trees)

Division	Block	Class	Species	Private		Crown		Total		
				No. Trees	Ha.	No. Trees	Ha.	No. Trees	Ha.	
Pt McNeill	IV	Normal	Df			15.4		15.4		
			Hw			143.2		143.2		
			Cw			107.8		107.8		
			Cy			56.7		56.7		
			Ss			0.5		0.5		
			Ba			70.6		70.6		
			PI			0.8		0.8		
			Ds			0.2		0.2		
		Total					395.2	316	395.2	316
		Fill	Df				0.6		0.6	
			Hw				2.2		2.2	
			Cw				4.1		4.1	
			Cy				0.1		0.1	
			Ss				0.7		0.7	
Ba					1.5		1.5			
Total					9.2	37	9.2	37		
Stillwater	V	Normal	Df			21.8		21.8		
			Hw			18.0		18.0		
			Cw			32.1		32.1		
			Ba			20.2		20.2		
		Total					92.0	120	92.0	120
		Fill	Cw				14.3		14.3	
			Ba				9.1		9.1	
			Total				23.4	57	23.4	57
QC	VI		Normal	Hw			376.3		376.3	
		Cw				241.6		241.6		
		Cy				78.0		78.0		
		Ss				501.9		501.9		
		PI				124.3		124.3		
		Total						1322.2	1473	1322.2
		Fill	Hw				0.1		0.1	
			Cw				0.1		0.1	
			Ss				0.1		0.1	
			Total				0.3	2	0.3	2
Pt McNeill	VII	Normal	Hw			142.7		142.7		
			Cw			130.9		130.9		
			Cy			67.7		67.7		
			Ss			25.3		25.3		
			Ba			30.1		30.1		
			PI			1.2		1.2		
			Ds			2.5		2.5		
			Total					400.4	432	400.4
		Fill	Hw				1.5		1.5	
			Cw				6.0		6.0	
			Cy				1.1		1.1	
			Ss				1.8		1.8	
			Ba				1.2		1.2	
			Ds				0.4		0.4	
Total					11.9	29	11.9	29		

APPENDIX I - Table 6

TFL 39 Summary of Planting - 1996
(Thousands of trees)

Division	Block	Class	Species	Private		Crown		Total			
				No. Trees	Ha.	No. Trees	Ha.	No. Trees	Ha.		
Total	All	Normal	Df	7.9		497.5		505.4			
			Hw			1357.2		1357.2			
			Hm			12.8		12.8			
			Cw	7.2		753.3		760.6			
			Cy			451.5		451.5			
			Ss			534.1		534.1			
			Sx			2.9		2.9			
			Ba			255.8		255.8			
			Bg			2.7		2.7			
			Pl			128.7		128.7			
			Ds			3.7		3.7			
			Ct			9.2		9.2			
			Total			15.1	16	4009.5	4068	4024.6	4084
			Fill			Df			54.6		54.6
		Hw						72.9		72.9	
		Hm						0.2		0.2	
		Cw						32.9		32.9	
		Cy						28.1		28.1	
		Ss						5.8		5.8	
		Sx						0.2		0.2	
Ba						20.5		20.5			
Pl						5.9		5.9			
Ds						4.1		4.1			
Ct			0.3		0.3						
Total					225.2	396	225.2	396			
All	All	All	Df	7.9		552.1		560.0			
			Hw			1430.1		1430.1			
			Hm			13.0		13.0			
			Cw	7.2		786.2		793.4			
			Cy			479.6		479.6			
			Ss			539.9		539.9			
			Sx			3.0		3.0			
			Ba			276.3		276.3			
			Bg			2.7		2.7			
			Pl			134.6		134.6			
			Ds			7.7		7.7			
			Ct			9.5		9.5			
			Total			15.1	16	4234.7	4464	4249.8	4480

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APPENDIX I - Table 7

TFL 39 Plantation Survival And Regeneration Performance Report - 1996

Division	Block	Natural			Plantation		
		Examined (ha)	Stocked (ha)	Percent Stocked	Examined (ha)	Successful (ha)	Percent Successful
		Stocking Survey			Survival Survey (First Year)		
Stillwater	I	350	241	69	492	478	97
Eve	II	278	110	40	96	96	100
Kelsey Bay	II	926	329	36	1,265	1,250	99
Menzies Bay	II	268			1,062	1,029	97
	Total	1,472	439	30	2,423	2,375	98
Pt McNeill	III	48					
Pt McNeill	IV				222	176	79
Stillwater	V	4	4	100	187	187	100
QC	VI	1,074	402	37	1,357	1,305	96
Pt McNeill	VII	196	152	78	120	104	86
Total		3,144	1,238	39	4,801	4,625	96

		Regeneration Performance (Third Year)			Regeneration Performance (Third Year)		
Stillwater	I				181	181	100
Eve	II	607	600	99	122	122	100
Kelsey Bay	II	1,120	1,114	100	2,414	2,361	98
Menzies Bay	II	355	353	99	692	690	100
	Total	2,081	2,067	99	3,228	3,173	98
Pt McNeill	III	43	43	100			
Pt McNeill	IV	558	476	85			
Stillwater	V				261	261	100
QC	VI	464	462	100			
Pt McNeill	VII	206	188	91			
Total		3,352	3,236	97	3,670	3,615	99

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APPENDIX I - Table 8

TFL 39 Restocking Statement to December 31, 1996
(Hectares)

Reconciliation of Denuded Land (a)	Backlog (b)	MP# 1-5 1962-87	MP #6 1988-95	MP #7		Grand Total
				1996	Total	

DENUATION HISTORY

- Logging	37,320	102,974	36,564	3,828	3,828	180,686
- Fire		2,203				2,203
- Other (c)		4,674				4,674
Total Denuded	37,320	109,851	36,564	3,828	3,828	187,563

RESTOCKING RECONCILIATION

- Total at previous year end		64	10,210			10,274
- Add Total denuded current year				3,828	3,828	3,828
- Regeneration failures		25	276	6	6	307
- Adjustments (d)			30	-7	-7	23
Total AAR for Reclassification		89	10,516	3,827	3,827	14,432

RESTOCKING CLASSIFICATION FOR 1996

-Non-productive (e)			4	218	218	222
- Stocked (f)						
. Planted or seeded		20	3,836	170	170	4,026
. Natural		44	1,009			1,053
Total stocked		64	4,845	170	170	5,079
- Awaiting restocking						
. No treatment required		25	5,668	3,371	3,371	9,064
. Treatment required				69	69	69
Total Awaiting Restocking		25	5,668	3,440	3,440	9,133
Total Classified During 1996		89	10,517	3,828	3,828	14,434
AAR as of December 31, 1996		25	5,668	3,440	3,440	9,133
Net Change from 1995		-39	-4,542	3,440	3,440	-1,141

- (a) TFL 7 data to 1987 was sorted to match TFL 39 time periods and added to the appropriate TFL 39 MP
 (b) Logged or unstocked land, including TFL 7, which existed in 1961 when TFL 39 was established.
 (c) Includes property additions with existing denuded lands requiring reforestation at the time of addition to the TFL.
 (d) Adjustments due to area remeasurements, correction of denuded data, etc.
 (e) Deduction for roads, rock, swamp, etc.
 (f) Does not include "fill" planting (i.e., intensification of stocking) or planting in the 30-year reserve in Block I, Stillwater

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Appendix I - Table 9

TFL 39 Stand Tending - 1996
(hectares)

Division	Block	Tenure	Brushing/ Weeding	Spacing	Fertilize	Pruning	Total Hectares
Stillwater	I	Private	57				57
		Crown	311	161		12	484
		Total	368	161		12	541
Eve River	II	Private					
		Crown		103	74		177
		Total		103	74		177
Kelsey Bay	II	Private	7				7
		Crown	99	206			305
		Total	106	206			312
Menzies Bay	II	Private					
		Crown	3	58	632		693
		Total	3	58	632		693
Total	II	Private	7				7
		Crown	102	367	706		1,175
		Total	109	367	706		1,182
Port McNeill	III	Private					
		Crown		45	213	6	264
		Total		45	213	6	264
Port McNeill	IV	Private					
		Crown			212		212
		Total			212		212
Stillwater	V	Private					
		Crown	168				168
		Total	168				168
QC	VI	Private					
		Crown	219	176			395
		Total	219	176			395
Port McNeill	VII	Private					
		Crown			308		308
		Total			308		308
Total	All	Private	64				64
		Crown	800	749	1,439	18	3,006
		Total	864	749	1,439	18	3,070

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Appendix I - Table 10

TFL 39 Erosion Control Seeding - 1996
(Hectares)

Division	Block	Tenure	Road-side	Slide Area	Total Hectares
Stillwater	I	Private	5		5
		Crown	90	8	98
		Total	95	8	103
Eve River	II	Private			
		Crown	39		39
		Total	39		39
Kelsey Bay	II	Private			
		Crown			
		Total			
Menzies Bay	II	Private			
		Crown	44		44
		Total	44		44
Total	II	Private			
		Crown	83		83
		Total	83		83
Port McNeill	III	Private			
		Crown	3		3
		Total	3		3
Port McNeill	IV	Private			
		Crown	5		5
		Total	5		5
Stillwater	V	Private			
		Crown	24	12	36
		Total	24	12	36
QC	VI	Private			
		Crown	30		30
		Total	30		30
Port McNeill	VII	Private			
		Crown	20		20
		Total	20		20
Total	All	Private	5		5
		Crown	255	20	275
		Total	260	20	280

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APPENDIX I - Table 11

TFL 39 Miscellaneous Stand Surveys and Assessments - 1996
(hectares)

Division	Block	Pre-log Prescript	Post-log Prescript	Stand Maintenance Prescript	Post- Treatment Evaluation	Forestry Wood Prescript	Pre-Treat. Mechanical Site Prep	Free Growing	Total Area Assessed
Stillwater	I	482	450	2,005	600	50		495	4,082
Eve River	II	263	2,317	483	548			1,158	4,769
Kelsey Bay	II	706	1,554	285				512	3,057
Menzies Bay	II	311	98	568	157			288	1,422
	Total	1,280	3,969	1,336	705			1,958	9,248
Pt McNeill	III	478	284		10	81			853
Pt McNeill	IV	682	410	329					1,422
Stillwater	V	88	100	495	168			190	1,041
QC	VI	1,459		388	395			2,025	4,266
Pt McNeill	VII	341	205						546
Total		4,810	5,418	4,553	1,878	131		4,668	21,458

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APPENDIX I - Table 12

TFL 39 Free Growing Status Report for Openings Requiring MoF Approval (1)
As of December 31, 1996

Division	Block	Openings Not Free Growing				Openings Free Growing		
		Number of Openings	Treatment Required (ha.)	FG Survey Pending (ha.)	Declared FG (2) (ha)	Total (ha)	Number of Openings	Hectares
Stillwater	I	136	3,270	693		3,963		
Eve River	II	100	2,100	972	458	3,530		
Kelsey Bay	II	150	198	4,518		4,716		
Menzies Bay	II	68	1,869	797	8	2,674	1	4
	Total	318	4,167	6,287	466	10,920	1	4
Pt McNeill	III	20	463	113		576		
Pt McNeill	IV	104	2,443	1,508	3	3,954		
Stillwater	V	37	995	220		1,215		
QC	VI	153	8,242	1,253	20	9,515		
Pt McNeill	VII	50	1,303	642		1,945		
Total		818	20,883	10,716	489	32,088	1	4

- (1) Only openings/cut blocks with a date of felling on or after October 1, 1987 or negotiated with the MoF, where felling spanned the cut-off date.
- (2) Partial FG openings. An opening is not reported in the next section until it is declared completely Free Growing .

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APPENDIX I - Table 13

TFL 39 Funding Credits - 1996

Division	Block	Source	Activity/Description	\$	Ha/km
Stillwater	I	Industry Outstanding	Brushing	17,333	42
		Industry Outstanding	Planting	59,727	66
		Industry Outstanding	Planting	14,375	11
		Industry Outstanding	Site Prep/Planting	8,307	3
		FRBC	Road Deact	26,457	6
		FRBC	Road Deact	68,032	17
		FRBC	Watershed Assess	17,157	
		FRBC	Watershed Assess	755	
		FRBC	Spacing	199,535	178
Total				411,678	323
Eve River	II	FRBC	Road Deactivation	88,117	12
		FRBC	Assessment	20,402	483
		FRBC	Spacing	141,468	103
		FRBC	Hydro Seeding	12,095	12
		FRBC	Planting	8,825	6
		Industry Outstanding	Assessment	5,161	432
Total				276,068	1,048
Kelsey Bay	II	FRDA	Spacing	380,550	206
Menzies Bay	II	Industry Outstanding	Planting	73,983	102
		FRDA	Spacing	73,276	53
		FRBC	Forest Man. Roads- Maint	400	n/a
		FRBC	WRP: Grass Seeding	11,635	75
		FRBC	WRP: Forestry Overhead	51,223	n/a
Total				210,517	230
Pt McNeill	IV	FRDA	Spacing	65,149	42
		FRDA	Recreation Site Const.	50,000	
		FRDA	Spacing Layout	49,450	300
		FRDA	Aerial Fert. Layout	21,486	1,162
Total				186,085	1,504
Stillwater	V	FRBC	Road Deact.	46,174	11
		FRBC	Road Deact.	72,493	18
		Total			
QC	VI	SMFRA	Spacing	292,385	177
		Industry Outstanding	Brushing	139,230	190
		FRBC	Training	25,000	
		Industry Outstanding	Surveys	30,000	
		Prov.	Recreation Site Maintenance	5,116	
		Industry Outstanding	Spacing	85,173	56
		FRDA	Spacing	85,173	56
		SMFRA	Spacing	95,721	64
Total				757,797	543
Total				2,341,362	3,883

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APPENDIX II - Table 1

MacMillan Blodel Cone Collection - 1996
(hectolitres)

Species	Source		
	MB Orchards	Wild Collections	Total
Cedar	11.5		11.5
Western Hemlock	1.1		1.1
Yellow Cedar		21.9	21.9
Total	12.6	21.9	34.5

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APPENDIX II - Table 2

MacMillan Bloedel Seed Inventory - 1996

Species	Seed			Total Seed (gm)	Approx. Seedlings (000's)
	Seed Orchard Seed (gm)	Orchard Control Cross (gm)	Wild Seed (gm)		
Douglas fir	42,901	12,835	29,709	85,445	2,599
Western Hemlock	17,106		52,600	69,706	9,065
Mountain Hemlock			109	109	11
Cedar	1,771		32,267	34,038	5,327
Yellow Cedar			13,064	13,064	455
Sitka Spruce	12,759		2,216	14,975	2,294
Other Spruce			1,612	1,612	148
Amabilis Fir	1,203		584,762	585,965	3,037
Grand Fir			35,295	35,295	425
Noble Fir			52,066	52,066	270
Lodgepole Pine			1,683	1,683	197
White Pine			5,694	5,694	105
Western Larch			619	619	27
Total	75,740	12,835	811,696	900,271	23,960

Does not include seed from 1996 collections

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APPENDIX II - Table 3

Planting Stock Inventory and Sowing Request
December 31, 1996

	Inventory for Spring 1997	Sowing Request Fall 1997 / Spring 1998
Species	Number of Trees (000)	
Douglas fir	1,513	2,233
Western Hemlock	2,147	2,743
Mountain Hemlock	30	179
Cedar	2,229	2,082
Yellow Cedar	479	940
Sitka Spruce	648	378
Other Spruce	82	64
Amabilis Fir	932	236
Grand Fir	4	6
Noble Fir	82	80
Lodgepole Pine	59	123
White Pine	6	44
Sitka Alder	15	16
Red Alder	17	5
Total	8,243	9,129

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