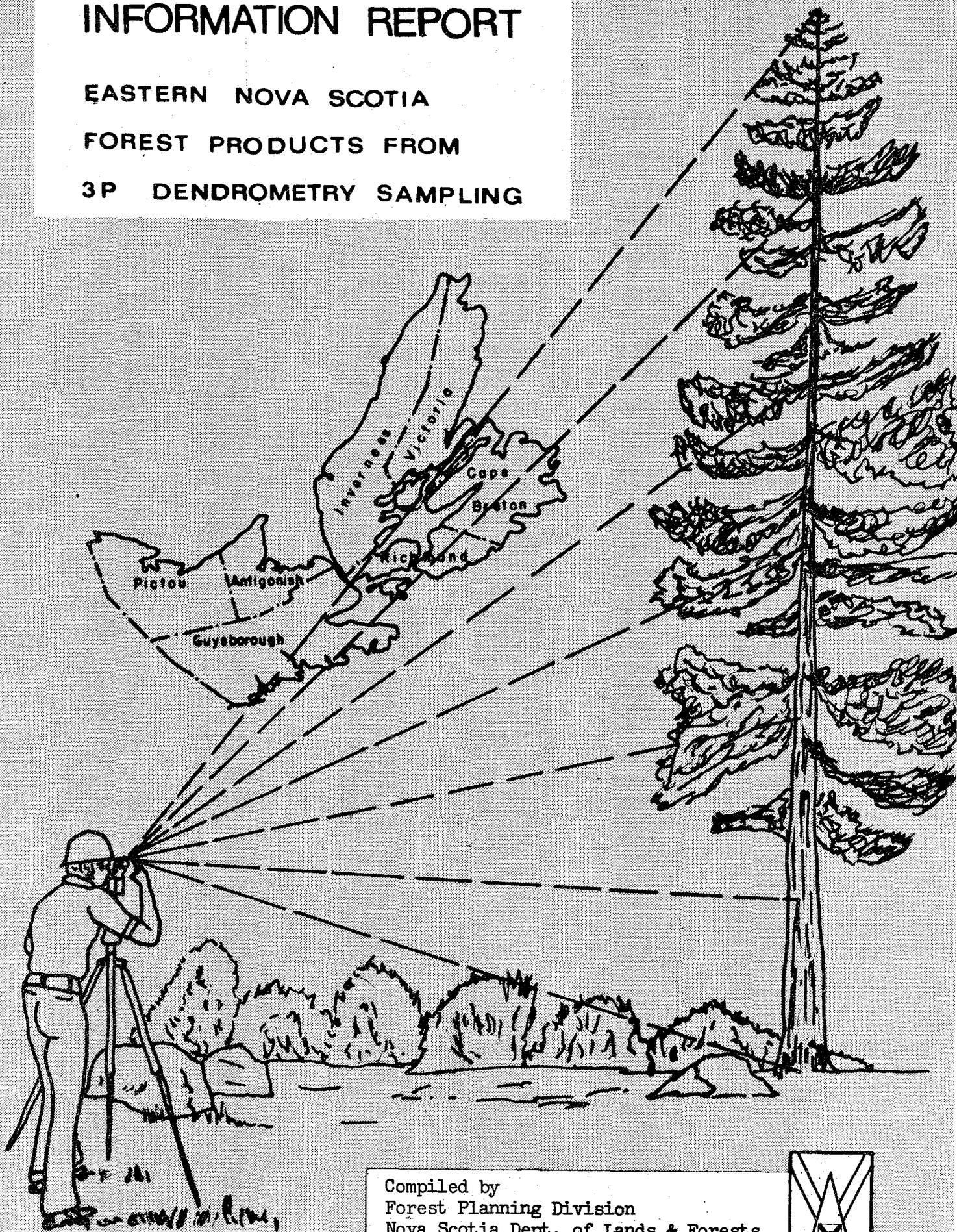
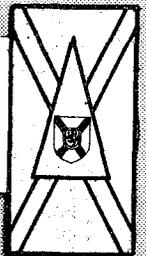


# INFORMATION REPORT

EASTERN NOVA SCOTIA  
FOREST PRODUCTS FROM  
3P DENDROMETRY SAMPLING



Compiled by  
Forest Planning Division  
Nova Scotia Dept. of Lands & Forests  
April 1979



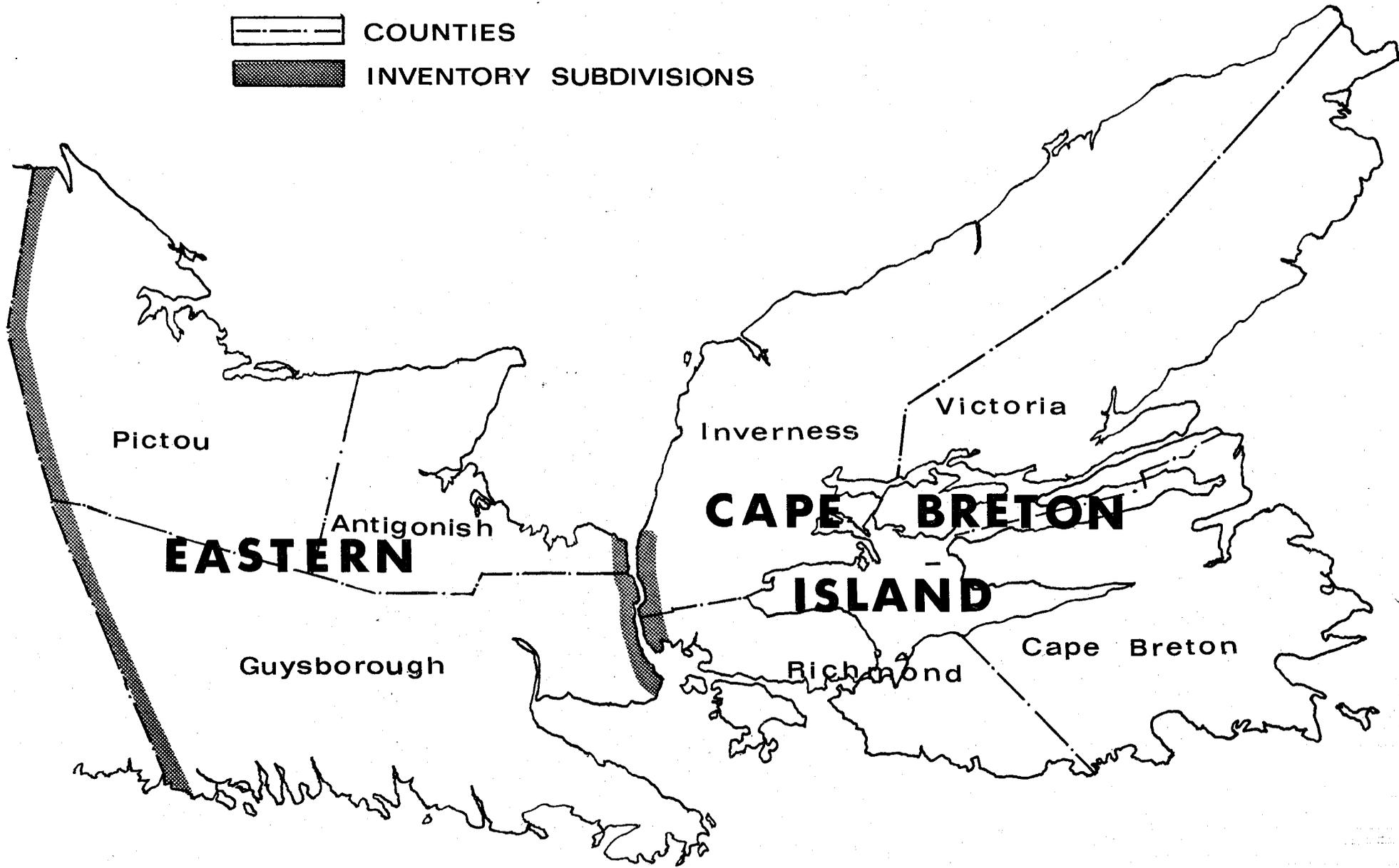
# EASTERN NOVA SCOTIA



COUNTIES



INVENTORY SUBDIVISIONS



### Acknowledgement

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Information Report  
Forest Products Inventory  
Eastern Nova Scotia

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INTRODUCTION

One of the shortcomings of the Provincial Inventory is a lack of data on the quality of the material in the growing stock, and the fact that the data, once compiled to certain merchantable limits, was impossible to change to other merchantable limits without using questionable conversion techniques. With the introduction of a new inventory technique call "3P Dendrometry Sampling", this type of quality classification and flexibility becomes possible.

3P SAMPLING THEORY

Three P Sampling technique was developed by L. R. Grosenbaugh in the early 1960's while working at the Pacific Southwest Forest and Range Experiment Station, Berkeley, California.

Three P (3P) means Probability, Proportional to Prediction. This means that the probability of a tree being chosen for measurement is proportional to its predicted value. It was reasoned that rather than taking a few measurements on a lot of trees, it would be better to take better measurements on only a few trees which have been properly selected, and that the concentration of measurements should be on the trees of greatest value.

By (a) using random numbers specially generated for the population being sampled, (b) predicting some value for each tree, and (c) comparing the predicted value with the random number, sample trees can be chosen. A tree qualifies for measurement if the predicted value equals or exceeds the random number. The detail of measurement depends on the purpose, degree of detail and accuracy required. Thus all trees in the Sample have some value predicted, but only a few chosen trees require measurement.

It is important to realize that 3P Sampling is a technique which can be used for nearly all types of sampling jobs. Most people associate 3P Sampling only with 3P Dendrometry Sampling, but this is only one of its applications.

As James C. Space explains\*:

1/ "The reason why 3P Sampling is so efficient is because an estimate, or prediction, is made of the volume or value of each tree, a smaller number of samples are then measured very accurately, and the volume or value estimates are corrected accordingly. These samples are selected for measurement in direct proportion to their predicted volume or value hence probability proportion to prediction, or 3P Sampling. The whole premise of this system is that some estimate of tree volume or value, even though it may be a poor one, is better than no estimate at all, and that these estimates can be effectively corrected by a small sample of accurately measured trees."

"Since only a few sample trees need to be measured, we can afford to spend extra time to measure them very precisely. One of the ways to do this, without climbing or felling the tree, is to use an optical dendrometer to measure the bole of the standing tree. Measurements can be taken at enough points to accurately define the form of the tree, and also to separate sections of differing quality and defect."

"The measurements taken by dendrometry can be mathematically converted to three primary units of measure: Cubic foot volume, surface area and length; which, along with a grade or quality defect code, completely define each section of the tree. These primary units of measure have several advantages over more traditional units. Since these are mathematically defined functions, they are much less ambiguous and inconsistent than board feet, cords or other conventional units of measure. They are simpler to use in that they can be calculated from mathematical formulae (using the end diameters and length of each section) rather than applying log rules or volume tables.

The Department of Lands and Forests, with the assistance of Atlantic Resource Consultants and Mr. Jim Space, U. S. Forest Service extracted from the 3P Sampling Theory and its applied 3P Dendrometry technique a method with the use of dendrometers to quantify the quality of material in the growing stock resource of Nova Scotia. A pilot area was done. When the results proved successful, the system was applied to other uses.

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\* Predicting Product Recovery in Southern Pine using Dendrometry and STX, Prepared for presentation at Annual Meeting of Forest Products Reserach Society, Anaheim, California, June 28/73.

### 3P DENDROMETRY SAMPLING

#### Preparation

The first step was to decide on the number of trees to be measured. This was done in the same manner as deciding on a Sample size for any Sampling project. From our data on coefficient variation, standard error required etc., it appeared we needed approximately 300 trees per county.

The next step was to generate the random numbers with which to compare the predicted value of trees in the Sample. This was done with a special program called "RN3P". Such factors as numbers of trees needed, value of largest tree, etc. were needed to produce the random numbers.

Once the random numbers were available, all permanent plots in a county were looked at tree by tree, plot by plot. The volume for each tree which had resulted from earlier field measurement was used as our predicted volume. If the volume for the tree exceeded or was equal to the random number the tree was selected for detailed measurement. The predicted value for all trees was recorded on a form for inclusion in the compilation phase. A list was made of all trees and plots that had to be visited by a field crew. All trees exceeding the maximum were measured with the dendrometer.

#### Field Procedure

Plots containing trees to be measured were visited by a two man field crew and detailed tree measurements were taken.

Most measurements were taken with a Barr and Stroud Dendrometer. This is a precision instrument which sits on a tripod and is capable of measuring tree diameter and the lengths of a tree section up the bole of the tree. In cases where undergrowth was too thick some measurements on the lower part of the tree were taken by diameter tape.

Once the dendrometer was set in a suitable location to view the selected tree, the tree was classified into one of the following classes:

##### Species Product

- a) Sawlog
- b) Undersized Log
- c) Boltwood
- d) Pulpwood
- e) Cull

The "Definition of Products" will explain the product classification fully.

The first step was to measure D.B.H. with diameter tape, since D.B.H. is one criteria to determine product class. Then two bark thickness readings are taken with a bark gauge and 5 year radial growth is determined from increment boring.

The dendrometer readings are taken at stump height, D.B.H. and as many other readings on stems as the cruiser determines necessary. The number of readings are determined on product, product change and change of taper in the tree.

Detail specifications on the procedure can be obtained by writing: Dept. of Lands & Forests, Manager of Forest Inventory, P. O. Box 68, Truro, Nova Scotia, B2N 5B8.

#### Compilations

The dendrometry data plus the predicted volumes for each tree on all plots in the county are processed by a computer program called "STX" developed by L.R. Grosenbaugh, This program does all the necessary editing and manipulation of the data to provide volume (cubic feet or board feet), basal area, lineal feet, surface area, number of trees by product and D.B.H. Class.

#### Definition of Products

Softwood Sawlog - tree 9" + DBH to 8" top and of sawlog quality.

Hardwood Sawlog - tree 10" + DBH to 8" top and of sawlog quality.

Undersized Sawlog - softwood trees 7-8" DBH to 4" top and of sawlog quality.

Boltwood - hardwood trees 7-9" DBH to 6" top and of suitable quality.

Pulpwood - trees not suitable for any of the above 4" + DBH to 4" top.

Cull - material not suitable for any product.

Topwood - material between top diameter for sawlog or boltwood and a 4" top.

COMPARISONS

When the Gross Merchantable Cubic Foot Volume for each county is compared to the data from the forest inventory they are found generally to compare very closely. Most of the regular inventory data is at different ages than 3P inventory, but by making allowances for growth and cut, they compare very well, generally. One of the best comparisons was for Halifax County (not in this report), where both were done in the same year and the two compared within 3%. The comparisons for the counties in Eastern Nova Scotia are as follows:

Table 1 is a comparison of Temporary Sample Plot and 3P Inventories with Spruce Budworm and Eastern Spruce Bark Beetle Merchantable Volumes removed for Cape Breton Island.

Table 2 is a comparison of Temporary Sample Plot and 3P Inventories with Spruce Budworm and Eastern Spruce Bark Beetle Merchantable Volumes included for Cape Breton Island.

Table 1

Temporary Sample Plot/3P Inventory Comparison

(Spruce Budworm and Eastern Spruce Bark Beetle Merchantable Not Included)

<u>COUNTY</u>	<u>* % DIFFERENCE</u>		
	<u>SOFTWOOD</u>	<u>HARDWOOD</u>	<u>TOTAL</u>
Pictou	-9	+6	-4
Antigonish	+18	-2	+10
Guysborough	-3	+30	+8
Inverness	-18	+15	-6
Victoria	-10	+19	-3
Richmond	-2	+37	+6
Cape Breton	-6	-23	-11

Table 2

Temporary Sample Plot/3P Inventory Comparison

(Spruce Budworm and Eastern Spruce Bark Beetle Merchantable Included)

<u>COUNTY</u>	<u>* % DIFFERENCE</u>		
	<u>SOFTWOOD</u>	<u>HARDWOOD</u>	<u>TOTAL</u>
Pictou	-9	+6	-4
Antigonish	+18	-2	+10
Guysborough	-3	+30	+8
Inverness	-12	+15	-2
Victoria	-6	+19	<1
Richmond	+1	+37	+8
Cape Breton	+1	-23	-7

ADDITIONAL DATA

Data on lineal feet, trees/acre, basal etc., are not included for data by cover, Age and Ownership. This would be available by contacting the Manager, Forest Inventory, Truro, Nova Scotia.

\* Temporary Sample Plots used as base to calculate per cent.

TABLES

TABLE NO. 1

EASTERN NOVA SCOTIA

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1976-78

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	820360	203737	101094	0	62734	168827	0	536392
SPRUCE	406068	89060	142590	0	36284	181463	44	449441
FIR	408284	90353	178672	0	37009	863568	8466	1178068
HEMLOCK	169362	38984	0	0	7076	6703	0	52763
WHITE PINE	122199	24707	0	0	6103	2150	0	32960
RED PINE	0	0	0	0	0	0	0	0
LARCH	6480	1941	1547	0	362	27781	0	31631
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	393038	85401	0	12328	27728	112440	1478	239375
RED MAPLE	244654	64032	0	29551	34240	310272	10503	448598
Y. BIRCH	141874	35127	0	15818	20173	264029	39820	374967
W. BIRCH	12389	3420	0	6188	3162	80612	2023	95405
ASPEN	27582	4478	0	13705	7338	36739	0	62260
OTHER HARD	52443	10734	0	3730	1595	76061	929	93049
TOTAL SOFT	1932753	448782	423903	0	149568	1250492	8510	2281255
TOTAL HARD	871980	203192	0	81320	94236	880153	54753	1313654
GRAND TOTS	2804733	651974	423903	81320	243804	2130645	63263	3594909

TABLE NO. 2

## EASTERN NOVA SCOTIA BY OWNERSHIP

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1976 - 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
CUBIC FEET

	SAWLOGS	SAWLOGS	UNDERSIZED				PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
	(MFBM)		SAWLOGS	BOLTWOOD	TOPWOOD			VOLUME	
CROWN									
Softwood	384 599	80 764	77 355	0	21 724	435 599	2 699	618 141	
Hardwood	198 983	43 908	0	10 635	19 402	252 168	29 002	355 115	
Total	583 582	124 672	77 355	10 635	41 126	687 767	31 701	973 256	
LARGE PRIVATE									
Softwood	224 267	51 256	52 972	0	20 692	57 151	0	182 071	
Hardwood	80 840	17 842	0	6 589	7 089	69 259	3 217	103 996	
Total	305 107	69 098	52 972	6 589	27 781	126 410	3 217	286 067	
SMALL PRIVATE									
Softwood	1 323 887	316 762	293 576	0	107 152	757 742	5 811	1 481 043	
Hardwood	592 157	141 442	0	64 096	67 745	558 726	22 534	854 543	
Total	1 916 044	458 204	293 576	64 096	174 897	1 316 468	28 345	2 335 586	
TOTAL									
Softwood	1 932 753	448 782	423 903	0	149 568	1 250 492	8 510	2 281 255	
Hardwood	871 980	203 192	0	81 320	94 236	880 153	54 753	1 313 654	
Total	2 804 733	651 974	423 903	81 320	243 804	2 130 645	63 263	3 594 909	

TABLE NO. 3  
EASTERN NOVA SCOTIA  
SOFTWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1976-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD			MERCHANTABLE
W. SPRUCE	567911	148854	83811	0	45648	123986	0	402299
SPRUCE (red & black)	350918	76442	128732	0	29077	161259	44	395554
FIR	293371	63192	127401	0	26845	624811	4680	846929
HEMLOCK	138278	27432	0	0	3042	6260	0	36734
WHITE PINE	104896	20687	0	0	4309	2150	0	27146
RED PINE	0	0	0	0	0	0	0	0
LARCH	6480	1941	1547	0	362	23142	0	26992
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	24982	5911	0	0	1416	2349	0	9676
RED MAPLE	12972	2410	0	0	779	55005	920	59114
Y. BIRCH	9343	2187	0	2938	557	34517	2426	42625
W. BIRCH	5328	1436	0	782	730	21831	0	24779
ASPEN	0	0	0	0	0	8507	0	8507
OTHER HARD	11056	2330	0	1536	262	7162	0	11290
TOTAL SOFT	1461854	338548	341491	0	109283	941608	4724	1735654
TOTAL HARD	63681	14274	0	5256	3744	129371	3346	155991
GRAND TOTS	1525535	352822	341491	5256	113027	1070979	8070	1891645

TABLE NO. 4  
 EASTERN NOVA SCOTIA  
 MIXEDWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1976-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD		CULL	TOTAL GROSS MERCHANTABLE	
	(FBM)	SAWLOGS	BOLTWOOD	TOPWOOD				
SPRUCE	220903	49149	14067	0	16690	44338	0	124244
SPRUCE (red & black)	55150	12618	13858	0	7207	20031	0	53714
FIR	95819	22466	41262	0	9764	214738	0	288230
HEMLOCK	18394	7579	0	0	3407	443	0	11429
WHITE PINE	17303	4020	0	0	1794	0	0	5814
RED PINE	0	0	0	0	0	0	0	0
ARCH	0	0	0	0	0	4639	0	4639
OTHER SOFT	0	0	0	0	0	0	0	0
MAPLE	117497	28086	0	2950	10241	43740	1208	86225
RED MAPLE	90690	28807	0	5456	13720	156589	9583	214155
BIRCH	56886	13718	0	6294	12290	147799	7166	187267
BIRCH	7061	1984	0	3746	1469	47779	2023	57001
SPEN	27582	4478	0	9885	6494	8648	0	29505
OTHER HARD	24639	5084	0	0	457	14162	426	20129
TOTAL SOFT	407569	95832	69187	0	38862	284189	0	488070
TOTAL HARD	324355	82157	0	28331	44671	418717	20406	594282
GRAND TOTS	731924	177989	69187	28331	83533	702906	20406	1082352

TABLE NO. 5  
 EASTERN NOVA SCOTIA  
 HARDWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1976-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
 CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD			MERCHANTABLE
W. SPRUCE	31546	5734	3216	0	396	503	0	9849
SPRUCE (red & black)	0	0	0	0	0	173	0	173
FIR	19094	4695	10009	0	400	24019	3786	42909
HEMLOCK	12690	3973	0	0	627	0	0	4600
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	250559	51404	0	9378	16071	66351	270	143474
RED MAPLE	140992	32815	0	24095	19741	98678	0	175329
Y. BIRCH	75645	19222	0	6586	7326	81713	30228	145075
W. BIRCH	0	0	0	1660	963	11002	0	13625
ASPEN	0	0	0	3820	844	19584	0	24248
OTHER HARD	16748	3320	0	2194	876	54737	503	61630
TOTAL SOFT	63330	14402	13225	0	1423	24695	3786	57531
TOTAL HARD	483944	106761	0	47733	45821	332065	31001	563381
GRAND TOTS	547274	121163	13225	47733	47244	356760	34787	620912

TABLE NO. 6

## EASTERN SUBDIVISION

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD		MERCHANTABLE	
W. SPRUCE	417696	95798	50630	0	36815	47154	0	230397
SPRUCE (red & black)	330802	71631	102158	0	27854	67239	44	268926
FIR	130818	27698	101611	0	11963	235111	7941	384324
HEMLOCK	72737	20591	0	0	5800	3201	0	29592
WHITE PINE	72676	14563	0	0	3706	2150	0	20419
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	4086	0	4086
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	203508	44783	0	5597	13629	49543	1208	114760
RED MAPLE	165635	48326	0	14902	25388	156418	7760	252794
Y. BIRCH	84716	21609	0	1740	6023	81309	31682	142363
W. BIRCH	5328	1436	0	0	281	24447	0	26164
ASPEN	0	0	0	13705	2720	17025	0	33450
OTHER HARD	35695	7414	0	1536	719	5490	0	15159
TOTAL SOFT	1024729	230281	254399	0	86138	358941	7985	937744
TOTAL HARD	494882	123568	0	37480	48760	334232	40650	584690
GRAND TOTS	1519611	353849	254399	37480	134898	693173	48635	1522434

TABLE NO. 7

## CAPE BRETON SUBDIVISION

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978-

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS MERCHANTABLE
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	402664	107939	50464	0	25919	121673	0	305995
SPRUCE (red & black)	75266	17429	40432	0	8430	114224	0	180515
FIR	277466	62655	77061	0	25046	628457	525	793744
HEMLOCK	96625	18393	0	0	1276	3502	0	23171
WHITE PINE	49523	10144	0	0	2397	0	0	12541
RED PINE	0	0	0	0	0	0	0	0
LARCH	6480	1941	1547	0	362	23695	0	27545
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	189530	40618	0	6731	14099	62897	270	124615
RED MAPLE	79019	15706	0	14649	8852	153854	2743	195804
Y. BIRCH	57158	13518	0	14078	14150	182720	8138	232604
W. BIRCH	7061	1984	0	6188	2881	56165	2023	69241
ASPEN	27582	4478	0	0	4618	19714	0	28810
OTHER HARD	16748	3320	0	2194	876	70571	929	77890
TOTAL SOFT	908024	218501	169504	0	63430	891551	525	1343511
TOTAL HARD	377098	79624	0	43840	45476	545921	14103	728964
GRAND TOTS	1285122	298125	169504	43840	108906	1437472	14628	2072475

TABLE NO. 8

## EASTERN SUBDIVISION

## SOFTWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

## CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED				PULPWOOD	CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD			MERCHANTABLE	
W. SPRUCE	246137	59165	38752	0	21969	25254	0	145140	
SPRUCE (red & black)	300142	63855	95876	0	24720	67239	44	251734	
FIR	76400	15765	76329	0	8408	164344	4155	269001	
HEMLOCK	41653	9039	0	0	1766	2758	0	13563	
WHITE PINE	72676	14563	0	0	3706	2150	0	20419	
RED PINE	0	0	0	0	0	0	0	0	
LARCH	0	0	0	0	0	960	0	960	
OTHER SOFT	0	0	0	0	0	0	0	0	
S. MAPLE	17156	4317	0	0	884	0	0	5201	
RED MAPLE	4747	862	0	0	623	33390	920	35795	
Y. BIRCH	9343	2187	0	1740	89	6435	0	10451	
W. BIRCH	5328	1436	0	0	281	5508	0	7225	
ASPEN	0	0	0	0	0	0	0	0	
OTHER HARD	11056	2330	0	1536	262	2080	0	6208	
TOTAL SOFT	737008	162387	210957	0	60569	262705	4199	700817	
TOTAL HARD	47630	11132	0	3276	2139	47413	920	64880	
GRAND TOTS	784638	173519	210957	3276	62708	310118	5119	765697	

TABLE NO. 9  
 EASTERN SUBDIVISION  
 MIXEDWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
 CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
	(FBM)	SAWLOGS	SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	158665	33892	11878	0	14450	21900	0	82120
SPRUCE (red & black)	30660	7776	6282	0	3134	0	0	17192
FIR	39190	8002	18580	0	3555	60010	0	90147
HEMLOCK	18394	7579	0	0	3407	443	0	11429
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	3126	0	3126
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	72323	18459	0	0	6643	13296	1208	39606
RED MAPLE	72618	25669	0	2047	10391	49496	6840	94443
Y. BIRCH	12552	2847	0	0	1021	42329	5776	51973
W. BIRCH	0	0	0	0	0	11044	0	11044
ASPEN	0	0	0	9885	1876	0	0	11761
OTHER HARD	24639	5084	0	0	457	0	0	5541
TOTAL SOFT	246909	57249	36740	0	24546	85479	0	204014
TOTAL HARD	182132	52059	0	11932	20388	116165	13824	214368
GRAND TOTS	429041	109308	36740	11932	44934	201644	13824	418382

TABLE NO.10  
 EASTERN SUBDIVISION  
 HARDWOOD COVER

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
 CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	12894	2741	0	0	396	0	0	3137
SPRUCE (red & black)	0	0	0	0	0	0	0	0
FIR	15228	3931	6702	0	0	10757	3786	25176
HEMLOCK	12690	3973	0	0	627	0	0	4600
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	114029	22007	0	5597	6102	36247	0	69953
RED MAPLE	88270	21795	0	12855	14374	73532	0	122556
Y. BIRCH	62821	16575	0	0	4913	32545	25906	79939
W. BIRCH	0	0	0	0	0	7895	0	7895
ASPEN	0	0	0	3820	844	17025	0	21689
OTHER HARD	0	0	0	0	0	3410	0	3410
TOTAL SOFT	40812	10645	6702	0	1023	10757	3786	32913
TOTAL HARD	265120	60377	0	22272	26233	170654	25906	305442
GRAND TOTS	305932	71022	6702	22272	27256	181411	29692	338355

TABLE NO. 11  
CAPE BRETON SUBDIVISION  
SOFTWOOD

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	321774	89689	45059	0	23679	98732	0	257159
SPRUCE (red & black)	50776	12587	32856	0	4357	94020	0	143820
FIR	216971	47427	51072	0	18437	460467	525	577928
HEMLOCK	96625	18393	0	0	1276	3502	0	23171
WHITE PINE	32220	6124	0	0	603	0	0	6727
RED PINE	0	0	0	0	0	0	0	0
LARCH	6480	1941	1547	0	362	22182	0	26032
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	7826	1594	0	0	532	2349	0	4475
RED MAPLE	8225	1548	0	0	156	21615	0	23319
Y. BIRCH	0	0	0	1198	468	28082	2426	32174
W. BIRCH	0	0	0	782	449	16323	0	17554
ASPEN	0	0	0	0	0	8507	0	8507
OTHER HARD	0	0	0	0	0	5082	0	5082
TOTAL SOFT	724846	176161	130534	0	48714	678903	525	1034837
TOTAL HARD	16051	3142	0	1980	1605	81958	2426	91111
GRAND TOTS	740897	179303	130534	1980	50319	760861	2951	1125948

TABLE NO. 12  
CAPE BRETON SUBDIVISION

MIXEDWOOD

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	62238	15257	2189	0	2240	22438	0	42124
SPRUCE (red & black)	24490	4842	7576	0	4073	20031	0	36522
FIR	56629	14464	22682	0	6209	154728	0	198083
HEMLOCK	0	0	0	0	0	0	0	0
WHITE PINE	17303	4020	0	0	1794	0	0	5814
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	1513	0	1513
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	45174	9627	0	2950	3598	30444	0	46619
RED MAPLE	18072	3138	0	3409	3329	107093	2743	119712
Y. BIRCH	44334	10871	0	6294	11269	105470	1390	135294
W. BIRCH	7061	1984	0	3746	1469	36735	2023	45957
ASPEN	27582	4478	0	0	4618	8648	0	17744
OTHER HARD	0	0	0	0	0	14162	426	14588
TOTAL SOFT	160660	38583	32447	0	14316	198710	0	284056
TOTAL HARD	142223	30098	0	16399	24283	302552	6582	379914
GRAND TOTS	302883	68681	32447	16399	38599	501262	6582	663970

TABLE NO. 13  
 CAPE BRETON SUBDIVISION  
 HARDWOOD

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD		MERCHANTABLE	
W. SPRUCE	18652	2993	3216	0	0	503	0	6712
SPRUCE (red & black)	0	0	0	0	0	173	0	173
FIR	3866	764	3307	0	400	13262	0	17733
HEMLOCK	0	0	0	0	0	0	0	0
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	136530	29397	0	3781	9969	30104	270	73521
RED MAPLE	52722	11020	0	11240	5367	25146	0	52773
Y. BIRCH	12824	2647	0	6586	2413	49168	4322	65136
W. BIRCH	0	0	0	1660	963	3107	0	5730
ASPEN	0	0	0	0	0	2559	0	2559
OTHER HARD	16748	3320	0	2194	876	51327	503	58220
TOTAL SOFT	22518	3757	6523	0	400	13938	0	24618
TOTAL HARD	218824	46384	0	25461	19588	161411	5095	257939
GRAND TOTS	241342	50141	6523	25461	19988	175349	5095	282557

TABLE NO. 14

## PICOU COUNTY

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

## CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED				PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD				
W. SPRUCE	234722	52902	25157	0	24982	21842	0	124883	
SPRUCE	65865	15473	60332	0	9460	35433	0	120698	
FIR	32848	8391	22149	0	1506	44813	3338	80197	
HEMLOCK	31084	11552	0	0	4034	443	0	16029	
WHITE PINE	14188	2942	0	0	1445	0	0	4387	
RED PINE	0	0	0	0	0	0	0	0	
LARCH	0	0	0	0	0	960	0	960	
OTHER SOFT	0	0	0	0	0	0	0	0	
S. MAPLE	147820	33089	0	5597	11036	25794	1208	76724	
RED MAPLE	0	0	0	6957	3197	47375	6840	64369	
Y. BIRCH	26332	7162	0	0	3136	16873	5469	32640	
N. BIRCH	0	0	0	0	0	3448	0	3448	
ASPEN	0	0	0	13705	2720	14347	0	30772	
OTHER HARD	0	0	0	0	0	2080	0	2080	
TOTAL SOFT	378707	91260	107638	0	41427	103491	3338	347154	
TOTAL HARD	174152	40251	0	26259	20089	109917	13517	210033	
GRAND TOTS	552859	131511	107638	26259	61516	213408	16855	557187	

TABLE NO. 15  
Antigonish County

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	135421	30994	8098	0	8493	14530	0	62115
SPRUCE (red & black)	33752	7139	1778	0	2195	4134	44	15290
FIR	23300	4354	11718	0	2688	93922	817	113499
HEMLOCK	41653	9039	0	0	1766	2758	0	13563
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	55688	11694	0	0	2593	5601	0	19888
RED MAPLE	29251	14548	0	1459	5998	13398	920	36323
Y. BIRCH	0	0	0	1740	0	18838	3258	23836
W. BIRCH	5328	1436	0	0	281	2932	0	4649
ASPEN	0	0	0	0	0	2678	0	2678
OTHER HARD	35695	7414	0	1536	719	3410	0	13079
TOTAL SOFT	234126	51526	21594	0	15142	115344	861	204467
TOTAL HARD	125962	35092	0	4735	9591	46857	4178	100453
GRAND TOTS	360088	86618	21594	4735	24733	162201	5039	304920

TABLE NO. 16

GUYSBOROUGH COUNTY

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD		CULL	TOTAL GROSS MERCHANTABLE	
	(FBM)	SAWLOGS	BOLTWOOD	TOPWOOD				
W. SPRUCE	47553	11902	17375	0	3340	10782	0	43399
SPRUCE (red & black)	231185	49019	40048	0	16199	27672	0	132938
FIR	74670	14953	67744	0	7769	96376	3786	190628
HEMLOCK	0	0	0	0	0	0	0	0
WHITE PINE	58488	11621	0	0	2261	2150	0	16032
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	3126	0	3126
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	0	0	0	0	0	18148	0	18148
RED MAPLE	136384	33778	0	6486	16193	95645	0	152102
Y. BIRCH	58384	14447	0	0	2887	45598	22955	85887
W. BIRCH	0	0	0	0	0	18067	0	18067
ASPEN	0	0	0	0	0	0	0	0
OTHER HARD	0	0	0	0	0	0	0	0
TOTAL SOFT	411896	87495	125167	0	29569	140106	3786	386123
TOTAL HARD	194768	48225	0	6486	19080	177458	22955	274204
GRAND TOTS	606664	135720	125167	6486	48649	317564	26741	660327

TABLE NO. 17

## INVERNESS COUNTY

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

## CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD			CULL	TOTAL GROSS MERCHANTABLE
	(FBM)	SAWLOGS	SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	230626	50320	22136	0	11268	48299	0	132023
SPRUCE	11382	2593	1987	0	1538	16975	0	23093
FIR	90339	19754	30495	0	6695	230779	0	287723
HEMLOCK	0	0	0	0	0	0	0	0
WHITE PINE	10421	2298	0	0	473	0	0	2771
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	6277	0	6277
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	104723	22227	0	0	7193	41089	270	70779
RED MAPLE	31789	6394	0	13270	5233	86786	2743	114426
Y. BIRCH	16716	3111	0	5076	5435	75394	962	89978
W. BIRCH	0	0	0	2131	522	22659	1793	27105
ASPEN	11517	1928	0	0	1485	17155	0	20568
OTHER HARD	16748	3320	0	2194	876	44453	503	51346
TOTAL SOFT	342768	74965	54618	0	19974	302330	0	451887
TOTAL HARD	181493	36980	0	22671	20744	287536	6271	374202
GRAND TOTS	524261	111945	54618	22671	40718	589866	6271	826089

TABLE NO. 18

VICTORIA COUNTY

## VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

## GROSS MERCHANTABLE VOLUME (THOUSANDS)

## CUBIC FEET

SPECIES	SAWLOGS (FBM)	SAWLOGS	UNDERSIZED			PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE
			SAWLOGS	BOLTWOOD	TOPWOOD			
W. SPRUCE	47633	11717	3332	0	4067	20930	0	40046
SPRUCE	6496	1111	7088	0	1318	29733	0	39250
FIR	157875	34263	14423	0	13922	213201	0	275809
HEMLOCK	7668	1681	0	0	120	0	0	1801
WHITE PINE	33692	6487	0	0	1418	0	0	7905
RED PINE	0	0	0	0	0	0	0	0
LARCH	0	0	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	60747	12970	0	3781	4662	3430	0	24843
RED MAPLE	20718	4193	0	1379	1505	23330	0	30407
Y. BIRCH	12913	3774	0	2456	2689	56578	5773	71270
W. BIRCH	7061	1984	0	2442	1901	10959	0	17286
ASPEN	16065	2550	0	0	3133	0	0	5683
OTHER HARD	0	0	0	0	0	17131	0	17131
TOTAL SOFT	253364	55259	24843	0	20845	263864	0	364811
TOTAL HARD	117504	25471	0	10058	13890	111428	5773	166620
GRAND TOTS	370868	80730	24843	10058	34735	375292	5773	531431

TABLE NO. 19  
 RICHMOND COUNTY

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)  
 CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED	PULPWOOD		CULL	TOTAL GROSS MERCHANTABLE	
	(FBM)	SAWLOGS	BOLTWOOD	TOPWOOD				
W. SPRUCE	37083	9324	19919	0	6034	17664	0	52941
SPRUCE (red & black)	14765	3280	2587	0	2219	30370	0	38456
FIR	2867	1491	7779	0	1174	71425	0	81869
HEMLOCK	0	0	0	0	0	0	0	0
WHITE PINE	0	0	0	0	0	0	0	0
RED PINE	0	0	0	0	0	0	0	0
LARCH	6480	1941	1547	0	362	7774	0	11624
OTHER SOFT	0	0	0	0	0	0	0	0
S. MAPLE	19327	4043	0	0	1017	6504	0	11564
RED MAPLE	23356	4287	0	0	1839	7439	0	13565
Y. BIRCH	9557	2275	0	714	2910	20204	160	26263
N. BIRCH	0	0	0	0	0	6020	0	6020
ASPEN	0	0	0	0	0	0	0	0
OTHER HARD	0	0	0	0	0	1835	0	1835
TOTAL SOFT	61195	16036	31832	0	9789	127233	0	184890
TOTAL HARD	52240	10605	0	714	5766	42002	160	59247
GRAND TOTS	113435	26641	31832	714	15555	169235	160	244137

TABLE NO. 20  
CAPE BRETON COUNTY

VOLUME BY PRODUCTS FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

GROSS MERCHANTABLE VOLUME (THOUSANDS)

CUBIC FEET

SPECIES	SAWLOGS	SAWLOGS	UNDERSIZED				PULPWOOD	CULL	TOTAL GROSS
	(FBM)		SAWLOGS	BOLTWOOD	TOPWOOD			MERCHANTABLE	
W. SPRUCE	87322	36578	5077	0	4550	34780	0	80985	
SPRUCE (red & black)	42623	10445	28770	0	3355	37146	0	79716	
FIR	26385	7147	24364	0	3255	113052	525	148343	
HEMLOCK	88957	16712	0	0	1156	3502	0	21370	
WHITE PINE	5410	1359	0	0	506	0	0	1865	
RED PINE	0	0	0	0	0	0	0	0	
LARCH	0	0	0	0	0	9644	0	9644	
OTHER SOFT	0	0	0	0	0	0	0	0	
S. MAPLE	4733	1378	0	2950	1227	11874	0	17429	
RED MAPLE	3156	832	0	0	275	36299	0	37406	
Y. BIRCH	17972	4358	0	5832	3116	30544	1243	45093	
W. BIRCH	0	0	0	1615	458	16527	230	18830	
ASPEN	0	0	0	0	0	2559	0	2559	
OTHER HARD	0	0	0	0	0	7152	426	7578	
TOTAL SOFT	250697	72241	58211	0	12822	198124	525	341923	
TOTAL HARD	25861	6568	0	10397	5076	104955	1899	128895	
GRAND TOTS	276558	78809	58211	10397	17898	303079	2424	470818	

TABLE NO. 21

EASTERN NOVA SCOTIA

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
OF PERMANENT SAMPLE PLOTS 1976 - 78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	5.67	2.81	0.00	1.75	4.70	0.00	14.92
SPRUCE	2.48	3.97	0.00	1.01	5.04	.00	12.50
FIR	2.51	4.97	0.00	1.03	24.02	.24	32.77
HEMLOCK	1.08	0.00	0.00	.20	.19	0.00	1.47
WHITE PINE	.69	0.00	0.00	.17	.06	0.00	.92
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	.05	.04	0.00	.01	.77	0.00	.88
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	2.38	0.00	.34	.77	3.13	.04	6.66
RED MAPLE	1.78	0.00	.82	.95	8.64	.29	12.48
Y. BIRCH	.98	0.00	.44	.56	7.34	1.11	10.43
W. BIRCH	.10	0.00	.17	.09	2.24	.06	2.65
ASPEN	.12	0.00	.38	.20	1.02	0.00	1.73
OTHER HARD	.30	0.00	.10	.04	2.12	.03	2.59
TOTAL SOFT	12.48	11.79	0.00	4.17	34.78	.24	63.46
TOTAL HARD	5.66	0.00	2.25	2.61	24.49	1.53	36.54
GRAND TOTAL	18.14	11.79	2.25	6.78	59.27	1.77	100.00

TABLE NO. 22

## EASTERN NOVA SCOTIA BY OWNERSHIP

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
OF PERMANENT SAMPLE PLOTS 1976 - 1978

	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
CROWN							
Softwood	2.24	2.15	0	.60	12.11	.07	17.19
Hardwood	1.22	0	.29	.53	7.01	.80	9.87
Total	3.46	2.15	.29	1.14	19.13	.88	27.07
LARGE PRIVATE							
Softwood	1.42	1.47	0	.57	1.58	0	5.06
Hardwood	.49	0	.18	.19	1.92	.08	2.89
Total	1.92	1.47	.18	.77	3.51	.08	7.95
SMALL PRIVATE							
Softwood	8.81	8.16	0	2.98	21.07	.16	41.19
Hardwood	3.93	0	1.78	1.88	15.54	.62	23.77
Total	12.74	8.16	1.78	4.86	36.62	.78	64.96
TOTAL							
Softwood	12.48	11.79	0	4.16	34.78	.23	63.45
Hardwood	5.65	0	2.26	2.62	24.48	1.52	36.54
Total	18.13	11.79	2.26	6.78	59.26	1.75	100.00

TABLE NO. 23  
 EASTERN NOVA SCOTIA  
 SOFTWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
 OF PERMANENT SAMPLE PLOTS 1976-78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	7.87	4.43	0.00	2.41	6.55	0.00	21.27
SPRUCE (red & black)	4.04	6.81	0.00	1.54	8.52	.00	20.91
FIR	3.34	6.73	0.00	1.42	33.05	.25	44.76
HEMLOCK	1.45	0.00	0.00	.16	.33	0.00	1.94
WHITE PINE	1.09	0.00	0.00	.23	.11	0.00	1.44
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	.10	.08	0.00	.02	1.22	0.00	1.43
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	.31	0.00	0.00	.07	.12	0.00	.51
RED MAPLE	.13	0.00	0.00	.04	2.92	.05	3.13
Y. BIRCH	.12	0.00	.16	.03	1.82	.13	2.25
W. BIRCH	.08	0.00	.04	.04	1.15	0.00	1.31
ASPEN	0.00	0.00	0.00	0.00	.45	0.00	.45
OTHER HARD	.12	0.00	.08	.01	.38	0.00	.60
TOTAL SOFTWOOD	17.89	18.05	0	5.78	49.78	.25	91.75
TOTAL HARDWOOD	.76	0	.28	.19	6.84	.18	8.25
GRAND TOTAL	18.65	18.05	.28	5.97	56.62	.43	100.00

TABLE NO. 24

EASTERN NOVA SCOTIA

MIXEDWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

OF PERMANENT SAMPLE PLOTS 1976-78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	4.54	1.30	0.00	1.54	4.10	0.00	11.48
SPRUCE (red & black)	1.17	1.28	0.00	.67	1.85	0.00	4.96
FIR	2.08	3.81	0.00	.90	19.84	0.00	26.63
HEMLOCK	.70	0.00	0.00	.31	.04	0.00	1.06
WHITE PINE	.37	0.00	0.00	.17	0.00	0.00	.54
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.43	0.00	.43
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	2.59	0.00	.27	.95	4.04	.11	7.97
RED MAPLE	2.66	0.00	.50	1.27	14.46	.89	19.78
Y. BIRCH	1.27	0.00	.58	1.14	13.66	.66	17.30
W. BIRCH	.18	0.00	.35	.14	4.41	.19	5.27
ASPEN	.41	0.00	.91	.60	.80	0.00	2.73
OTHER HARD	.47	0.00	0.00	.04	1.31	.04	1.86
TOTAL SOFTWOOD	8.86	6.39	0	3.59	26.26	0	45.10
TOTAL HARDWOOD	7.58	0	2.61	4.14	38.69	1.89	54.90
GRAND TOTAL	16.44	6.39	2.61	7.73	64.95	1.89	100.00

TABLE NO. 25  
 EASTERN NOVA SCOTIA  
 HARDWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

OF PERMANENT SAMPLE PLOTS 1976-78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	.92	.52	0.00	.06	.08	0.00	1.59
SPRUCE (red & black)	0.00	0.00	0.00	0.00	.03	0.00	.03
FIR	.76	1.61	0.00	.06	3.87	.61	6.90
HEMLOCK	.64	0.00	0.00	.10	0.00	0.00	.74
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	8.28	0.00	1.51	2.59	10.69	.04	23.11
RED MAPLE	5.28	0.00	3.88	3.18	15.89	0.00	28.24
Y. BIRCH	3.10	0.00	1.06	1.18	13.16	4.87	23.36
W. BIRCH	0.00	0.00	.27	.16	1.77	0.00	2.19
ASPEN	0.00	0.00	.62	.14	3.15	0.00	3.91
OTHER HARD	.53	0.00	.35	.14	8.82	.08	9.93
TOTAL SOFTWOOD	2.32	2.13	0	.22	3.98	.61	9.26
TOTAL HARDWOOD	17.19	0	7.69	6.39	53.48	4.99	90.74
GRAND TOTAL	19.51	2.13	7.69	7.61	57.46	5.60	100.00

TABLE NO. 26

## EASTERN SUBDIVISION

## PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

## OF PERMANENT SAMPLE PLOTS 1977 - 78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	6.29	3.33	0.00	2.42	3.10	0.00	15.15
SPRUCE (red & black)	4.71	6.71	0.00	1.83	4.42	.00	17.66
FIR	1.82	6.67	0.00	.79	15.44	.52	25.24
HEMLOCK	1.35	0.00	0.00	.38	.21	0.00	1.94
WHITE PINE	.96	0.00	0.00	.24	.14	0.00	1.34
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.27	0.00	.27
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	2.94	0.00	.37	.90	3.25	.08	7.54
RED MAPLE	3.17	0.00	.98	1.67	10.27	.51	16.60
Y. BIRCH	1.42	0.00	.11	.40	5.33	2.08	9.34
W. BIRCH	.09	0.00	0.00	.02	1.61	0.00	1.72
ASPEN	0.00	0.00	.90	.18	1.12	0.00	2.20
OTHER HARD	.49	0.00	.10	.05	.36	0.00	1.00
TOTAL SOFT	15.13	16.71	0.00	5.66	23.58	.52	61.60
TOTAL HARD	8.11	0.00	2.46	3.22	21.94	2.67	38.40
GRAND TOTAL	23.24	16.71	2.46	8.88	45.52	3.19	100.00

TABLE NO. 27

## CAPE BRETON SUBDIVISION

## PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

## OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	5.21	2.43	0.00	1.25	5.87	0.00	14.76
SPRUCE(red & black)	.84	1.95	0.00	.41	5.51	0.00	8.71
FIR	3.02	3.72	0.00	1.21	30.33	.03	38.30
HEMLOCK	.89	0.00	0.00	.06	.17	0.00	1.12
WHITE PINE	.49	0.00	0.00	.12	0.00	0.00	.61
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	.09	.07	0.00	.02	1.14	0.00	1.33
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	1.96	0.00	.32	.68	3.03	.01	6.01
RED MAPLE	.76	0.00	.71	.43	7.42	.13	9.45
Y. BIRCH	.65	0.00	.68	.68	8.82	.39	11.22
W. BIRCH	.10	0.00	.30	.14	2.71	.10	3.34
ASPEN	.22	0.00	0.00	.22	.95	0.00	1.39
OTHER HARD	.16	0.00	.11	.04	3.41	.04	3.76
TOTAL SOFTWOOD	10.54	8.17	0	3.07	43.02	.03	64.83
TOTAL HARDWOOD	3.85	0	2.12	2.19	26.34	.67	35.17
GRAND TOTAL	14.39	8.17	2.12	5.26	69.36	.70	100.00

TABLE NO. 28  
EASTERN SUBDIVISION

SOFTWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

OF PERMANENT SAMPLE PLOTS 1977 - 78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	7.73	5.06	0.00	2.87	3.30	0.00	18.96
SPRUCE (red & black)	8.34	12.52	0.00	3.23	8.78	.01	32.88
FIR	2.06	9.97	0.00	1.10	21.47	.54	35.13
HEMLOCK	1.18	0.00	0.00	.23	.36	0.00	1.77
WHITE PINE	1.90	0.00	0.00	.48	.28	0.00	2.67
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.13	0.00	.13
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	.56	0.00	0.00	.12	0.00	0.00	.68
RED MAPLE	.11	0.00	0.00	.08	4.38	.12	4.67
Y. BIRCH	.29	0.00	.23	.01	.84	0.00	1.36
W. BIRCH	.19	0.00	0.00	.04	.72	0.00	.94
ASPEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER HARD	.30	0.00	.20	.03	.27	0.00	.81
TOTAL SOFT	21.21	27.55	0.00	7.91	34.32	0.55	91.54
TOTAL HARD	1.45	0.00	0.43	0.25	6.21	0.12	8.46
GRAND TOTAL	22.66	27.55	0.43	8.16	40.53	0.67	100.00

TABLE NO. 29  
 EASTERN SUBDIVISION  
 MIXEDWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

OF PERMANENT SAMPLE PLOTS 1977 - 78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	8.10	2.84	0.00	3.45	5.23	0.00	19.63
SPRUCE (red & black)	1.86	1.50	0.00	.75	0.00	0.00	4.11
FIR	1.91	4.44	0.00	.85	14.36	0.00	21.55
HEMLOCK	1.81	0.00	0.00	.81	.11	0.00	2.73
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.75	0.00	.75
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	4.41	0.00	0.00	1.59	3.18	.29	9.47
RED MAPLE	6.14	0.00	.49	2.48	11.82	1.63	22.57
Y. BIRCH	.68	0.00	0.00	.24	10.12	1.38	12.42
W. BIRCH	0.00	0.00	0.00	0.00	2.64	0.00	2.64
ASPEN	0.00	0.00	2.36	.45	0.00	0.00	2.81
OTHER HARD	1.22	0.00	0.00	.11	0.00	0.00	1.32
TOTAL SOFT	13.68	8.78	0.00	5.86	20.45	0.00	48.77
TOTAL HARD	12.45	0.00	2.85	4.87	27.76	3.30	51.23
GRAND TOTAL	26.13	8.78	2.85	10.73	48.21	3.30	100.00

TABLE NO. 30  
 EASTERN SUBDIVISION  
 HARDWOOD COVER

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

OF PERMANENT SAMPLE PLOTS 1977 - 78

SPECIES	SAWLOG	UNDERSIZED LOG	BULTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	.81	0.00	0.00	.12	0.00	0.00	.93
SPRUCE (red & black)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FIR	1.16	1.98	0.00	0.00	3.18	1.12	7.44
HEMLOCK	1.17	0.00	0.00	.19	0.00	0.00	1.36
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	6.50	0.00	1.65	1.80	10.71	0.00	20.67
RED MAPLE	6.44	0.00	3.80	4.25	21.74	0.00	36.22
Y. BIRCH	4.90	0.00	0.00	1.45	9.62	7.66	23.63
W. BIRCH	0.00	0.00	0.00	0.00	2.33	0.00	2.33
ASPEN	0.00	0.00	1.13	.25	5.03	0.00	6.41
OTHER HARD	0.00	0.00	0.00	0.00	1.01	0.00	1.01
TOTAL SOFT	3.14	1.98	0.00	0.31	3.18	1.12	9.73
TOTAL HARD	17.84	0.00	6.58	7.75	50.44	7.66	90.27
GRAND TOTAL	20.98	1.98	6.58	8.06	53.62	8.78	100.00

TABLE NO. 31

## CAPE BRETON SUBDIVISION

## SOFTWOOD

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	7.97	4.00	0.00	2.10	8.77	0.00	22.84
SPRUCE (red & black)	1.12	2.92	0.00	.39	8.35	0.00	12.77
FIR	4.21	4.54	0.00	1.64	40.89	.05	51.32
HEMLOCK	1.63	0.00	0.00	.11	.31	0.00	2.06
WHITE PINE	.54	0.00	0.00	.05	0.00	0.00	.60
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	.17	.14	0.00	.03	1.97	0.00	2.31
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	.14	0.00	0.00	.05	.21	0.00	.40
RED MAPLE	.14	0.00	0.00	.01	1.92	0.00	2.07
Y. BIRCH	0.00	0.00	.11	.04	2.49	.22	2.86
W. BIRCH	0.00	0.00	.07	.04	1.45	0.00	1.56
ASPEN	0.00	0.00	0.00	0.00	.76	0.00	.76
OTHER HARD	0.00	0.00	0.00	0.00	.45	0.00	.45
TOTAL SOFTWOOD	15.64	11.60	0	4.32	60.29	.05	91.90
TOTAL HARDWOOD	.28	0	.18	.14	7.28	.22	8.10
GRAND TOTAL	15.92	11.60	.18	4.46	67.57	.27	100.00

TABLE NO. 32  
 CAPE BRETON SUBDIVISION  
 MIXEDWOOD

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
 OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	2.30	.33	0.00	.34	3.36	0.00	6.34
SPRUCE (red & black)	.73	1.14	0.00	.61	3.02	0.00	5.50
FIR	2.18	3.42	0.00	.94	23.30	0.00	29.83
HEMLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WHITE PINE	.61	0.00	0.00	.27	0.00	0.00	.88
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.23	0.00	.23
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	1.45	0.00	.44	.54	4.59	0.00	7.02
RED MAPLE	.47	0.00	.51	.50	16.16	.41	18.03
Y. BIRCH	1.64	0.00	.95	1.70	15.88	.21	20.38
W. BIRCH	.30	0.00	.56	.22	5.53	.30	6.92
ASPEN	.67	0.00	0.00	.70	1.30	0.00	2.67
OTHER HARD	0.00	0.00	0.00	0.00	2.13	.06	2.20
TOTAL SOFTWOOD	5.82	4.89	0	2.16	29.91	0	42.78
TOTAL HARDWOOD	4.53	0	2.46	3.66	45.59	.98	57.22
GRAND TOTAL	10.35	4.89	2.46	5.82	75.50	.98	100.00

TABLE NO. 33  
 CAPE BRETON SUBDIVISION  
 HARDWOOD

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
 OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	1.06	1.14	0.00	0.00	.18	0.00	2.38
SPRUCE (red & black)	0.00	0.00	0.00	0.00	.06	0.00	.06
FIR	.27	1.17	0.00	.14	4.70	0.00	6.28
HEMLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	10.40	0.00	1.34	3.53	10.63	.10	26.01
RED MAPLE	3.90	0.00	3.98	1.90	8.90	0.00	18.68
Y. BIRCH	.94	0.00	2.33	.85	17.40	1.53	23.05
W. BIRCH	0.00	0.00	.59	.34	1.10	0.00	2.03
ASPEN	0.00	0.00	0.00	0.00	.91	0.00	.91
OTHER HARD	1.17	0.00	.78	.31	18.17	.18	20.60
TOTAL SOFTWOOD	1.33	2.31	0	.14	4.94	0	8.72
TOTAL HARDWOOD	16.41	0	9.02	6.93	57.11	1.81	91.28
GRAND TOTAL	17.74	2.31	9.02	7.07	62.05	1.81	100.00

TABLE NO. 34  
 PICTOU COUNTY

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
 OF PERMANENT SAMPLE PLOTS 197 7-78

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	9.49	4.52	0.00	4.48	3.92	0.00	22.41
SPRUCE	2.78	10.83	0.00	1.70	6.36	0.00	21.66
FIR	1.51	3.98	0.00	.27	8.04	.60	14.39
HEMLOCK	2.07	0.00	0.00	.72	.08	0.00	2.88
WHITE PINE	.53	0.00	0.00	.26	0.00	0.00	.79
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.17	0.00	.17
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	5.94	0.00	1.00	1.98	4.63	.22	13.77
RED MAPLE	0.00	0.00	1.25	.57	8.50	1.23	11.55
Y. BIRCH	1.29	0.00	0.00	.56	3.03	.98	5.86
W. BIRCH	0.00	0.00	0.00	0.00	.62	0.00	.62
ASPEN	0.00	0.00	2.46	.49	2.57	0.00	5.52
OTHER HARD	0.00	0.00	0.00	0.00	.37	0.00	.37
TOTAL SOFT	16.38	19.33	0.00	7.43	18.57	.60	62.31
TOTAL HARD	7.23	0.00	4.71	3.60	19.72	2.43	37.69
GRAND TOTAL	23.61	19.33	4.71	11.03	38.29	3.03	100.00

TABLE NO. 35  
Antigonish County

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
OF PERMANENT SAMPLE PLOTS 1977

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	10.16	2.66	0.00	2.79	4.77	0.00	20.37
SPRUCE (red & black)	2.34	.58	0.00	.72	1.36	.01	5.01
FIR	1.43	3.84	0.00	.88	30.80	.27	37.22
HEMLOCK	2.96	0.00	0.00	.58	.90	0.00	4.45
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	3.84	0.00	0.00	.85	1.84	0.00	6.53
RED MAPLE	4.77	0.00	.48	1.97	4.39	.30	11.91
Y. BIRCH	0.00	0.00	.57	0.00	6.18	1.07	7.82
W. BIRCH	.47	0.00	0.00	.09	.96	0.00	1.52
ASPEN	0.00	0.00	0.00	0.00	.88	0.00	.88
OTHER HARD	2.43	0.00	.50	.24	1.12	0.00	4.29
TOTAL SOFT	16.89	7.08	0.00	4.97	37.83	.28	67.05
TOTAL HARD	11.51	0.00	1.55	3.15	15.37	1.37	32.95
GRAND TOTAL	28.40	7.08	1.55	8.12	53.20	1.65	100.00

TABLE NO. 36

## GUYSBOROUGH COUNTY

## PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

## OF PERMANENT SAMPLE PLOTS 1977

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	1.80	2.63	0.00	.51	1.63	0.00	6.57
SPRUCE (red & black)	7.42	6.06	0.00	2.45	4.19	0.00	20.13
FIR	2.26	10.26	0.00	1.18	14.60	.57	28.87
HEMLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WHITE PINE	1.76	0.00	0.00	.34	.33	0.00	2.43
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.47	0.00	.47
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	0.00	0.00	0.00	0.00	2.75	0.00	2.75
RED MAPLE	5.12	0.00	.98	2.45	14.48	0.00	23.03
Y. BIRCH	2.19	0.00	0.00	.44	6.91	3.48	13.01
W. BIRCH	0.00	0.00	0.00	0.00	2.74	0.00	2.74
ASPEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER HARD	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL SOFT	13.24	18.95	0.00	4.48	21.22	.57	58.46
TOTAL HARD	7.31	0.00	0.98	2.89	26.88	3.48	41.54
GRAND TOTAL	20.55	18.95	0.98	7.37	48.10	4.05	100.00

TABLE NO. 37

## INVERNESS COUNTY

## PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

## OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	6.09	2.68	0.00	1.36	5.85	0.00	15.98
SPRUCE	.31	.24	0.00	.19	2.05	0.00	2.80
FIR	2.39	3.69	0.00	.81	27.94	0.00	34.82
HEMLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WHITE PINE	.28	0.00	0.00	.06	0.00	0.00	.34
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	.76	0.00	.76
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	2.69	0.00	0.00	.87	4.97	.03	8.57
RED MAPLE	.77	0.00	1.61	.63	10.51	.33	13.85
Y. BIRCH	.38	0.00	.61	.66	9.13	.12	10.89
W. BIRCH	0.00	0.00	.26	.06	2.74	.22	3.28
ASPEN	.23	0.00	0.00	.18	2.08	0.00	2.49
OTHER HARD	.40	0.00	.27	.11	5.38	.06	6.22
TOTAL SOFT	9.07	6.61	0.00	2.42	36.60	0.00	54.70
TOTAL HARD	4.47	0.00	2.75	2.51	34.81	0.76	45.30
GRAND TOTAL	13.54	6.61	2.75	4.93	71.41	0.76	100.00

TABLE NO. 38

## VICTORIA COUNTY

PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	2.20	.63	0.00	.77	3.94	0.00	7.54
SPRUCE	.21	1.33	0.00	.25	5.59	0.00	7.39
FIR	6.45	2.71	0.00	2.62	40.13	0.00	51.90
HEMLOCK	.32	0.00	0.00	.02	0.00	0.00	.34
WHITE PINE	1.22	0.00	0.00	.27	0.00	0.00	1.49
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	2.44	0.00	.71	.88	.65	0.00	4.67
RED MAPLE	.79	0.00	.26	.28	4.39	0.00	5.72
Y. BIRCH	.71	0.00	.46	.51	10.63	1.09	13.41
W. BIRCH	.37	0.00	.46	.36	2.06	0.00	3.25
ASPEN	.48	0.00	0.00	.59	0.00	0.00	1.07
OTHER HARD	0.00	0.00	0.00	0.00	3.22	0.00	3.22
TOTAL SOFT	10.40	4.67	0.00	3.93	49.66	0.00	68.66
TOTAL HARD	4.79	0.00	1.89	2.62	20.95	1.09	31.34
GRAND TOTAL	15.19	4.67	1.89	6.55	70.61	1.09	100.00

TABLE NO. 39

## RICHMOND COUNTY

## PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING

## OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	3.82	8.16	0.00	2.47	7.24	0.00	21.68
SPRUCE (red & black)	1.34	1.06	0.00	.91	12.44	0.00	15.75
FIR	.61	3.17	0.00	.48	29.26	0.00	33.53
HEMLOCK	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WHITE PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	.80	.63	0.00	.15	3.18	0.00	4.76
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	1.66	0.00	0.00	.42	2.66	0.00	4.74
RED MAPLE	1.76	0.00	0.00	.75	3.05	0.00	5.56
Y. BIRCH	.93	0.00	.29	1.19	8.28	.07	10.76
W. BIRCH	0.00	0.00	0.00	0.00	2.47	0.00	2.47
ASPEN	0.00	0.00	0.00	0.00	0.00	0.00	0.00
OTHER HARD	0.00	0.00	0.00	0.00	.75	0.00	.75
TOTAL SOFT	6.57	13.02	0.00	4.01	52.12	0.00	75.72
TOTAL HARD	4.35	0.00	0.29	2.36	17.21	0.07	24.28
GRAND TOTAL	10.92	13.02	0.29	6.37	69.33	0.07	100.00

TABLE NO. 40

## CAPE BRETON COUNTY

 PERCENT OF TOTAL GROSS MERCHANTABLE VOLUME BY PRODUCTS FROM 3-P DENDROMETRY SAMPLING  
 OF PERMANENT SAMPLE PLOTS 1978

SPECIES	SAWLOG	UNDERSIZED LOG	BOLTWOOD	TOPWOOD	PULPWOOD	CULL	TOTAL GROSS MERCHANTABLE VOLUME
W. SPRUCE	7.77	1.08	0.00	.97	7.39	0.00	17.20
SPRUCE (red & black)	2.22	6.11	0.00	.71	7.89	0.00	16.93
FIR	1.52	5.17	0.00	.69	24.01	.11	31.51
HEMLOCK	3.55	0.00	0.00	.25	.74	0.00	4.54
WHITE PINE	.29	0.00	0.00	.11	0.00	0.00	.40
RED PINE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
LARCH	0.00	0.00	0.00	0.00	2.05	0.00	2.05
OTHER SOFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00
S. MAPLE	.29	0.00	.63	.26	2.52	0.00	3.70
RED MAPLE	.18	0.00	0.00	.06	7.70	0.00	7.94
Y. BIRCH	.93	0.00	1.24	.66	6.49	.26	9.58
W. BIRCH	0.00	0.00	.34	.10	3.51	.05	4.00
ASPEN	0.00	0.00	0.00	0.00	.54	0.00	.54
OTHER HARD	0.00	0.00	0.00	0.00	1.52	.09	1.61
TOTAL SOFT	15.35	12.36	0.00	2.73	42.08	.11	72.63
TOTAL HARD	1.40	0.00	2.21	1.08	22.28	.40	27.37
GRAND TOTAL	16.75	12.36	2.21	3.81	64.36	.51	100.00

TABLE NO. 41  
EASTERN SUBDIVISION

SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

ON PERMANENT SAMPLE PLOTS 1977 - 78

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET '000	NEW BRUNSWICK	ROY	INTERNATIONAL .25[
W. SPRUCE	95798	417696	450193	434970
SPRUCE (red & black)	71631	330802	358220	348963
FIR	27698	130818	139911	132640
HEMLOCK	20591	72737	81208	79898
WHITE PINE	14563	72676	76307	75620
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	44783	203508	225046	221216
RED MAPLE	48326	165635	181549	176837
Y. BIRCH	21609	84716	96808	96177
W. BIRCH	1436	5328	6222	6173
ASPEN	0	0	0	0
OTHER HARD	7414	35695	38062	36943
TOTAL SOFT	230281	1024729	1105839	1072091
TOTAL HARD	123568	494882	547687	537346
GRAND TOTS	353849	1519611	1653526	1609437

TABLE NO. 42

CAPE BRETON SUBDIVISION

SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

ON PERMANENT SAMPLE PLOTS 1978

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET	NEW BRUNSWICK	ROY	INTERNATIONAL .25
	1000			
W. SPRUCE	107939	402664	442285	432258
SPRUCE (red & black)	17429	75266	78515	73994
FIR	62655	277466	295254	283877
HEMLOCK	18393	96625	103063	102298
WHITE PINE	10144	49523	55251	55038
RED PINE	0	0	0	0
LARCH	1941	6480	7602	7557
OTHER SOFT	0	0	0	0
S. MAPLE	40618	189530	202995	199199
RED MAPLE	15706	79019	84377	83381
Y. BIRCH	13518	57158	61315	59595
W. BIRCH	1984	7061	8710	8650
ASPEN	4478	27582	28769	28848
OTHER HARD	3320	16748	17149	16991
TOTAL SOFT	218501	908024	981970	955022
TOTAL HARD	79624	377098	403315	396664
GRAND TOTS	298125	1285122	1385285	1351686

TABLE NO. 43

## PICTOU COUNTY

## SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

## ON PERMANENT SAMPLE PLOTS 1977-78

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG	NEW BRUNSWICK	ROY	INTERNATIONAL .25I
	CURIC FEET			
	*000			
W. SPRUCE	52902	234722	252967	243934
SPRUCE	15473	65865	69578	66377
FIR	8391	32848	38567	38137
HEMLOCK	11552	31084	36648	36363
WHITE PINE	2942	14188	15268	15118
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	33089	147820	163628	161077
RED MAPLE	0	0	0	0
Y. BIRCH	7162	26332	31909	31738
W. BIRCH	0	0	0	0
ASPEN	0	0	0	0
OTHER HARD	0	0	0	0
TOTAL SOFT	91260	378707	413028	399929
TOTAL HARD	40251	174152	195537	192815
GRAND TOTS	131511	552859	608565	592744

TABLE NO. 44  
Antigonish County

SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

ON PERMANENT SAMPLE PLOTS 1977

GROSS MERCHANTABLE VOLUME      SAWLOG MFBM

SPECIES	SAWLOG CUBIC FEET '000	NEW BRUNSWICK	ROY	INTERNATIONAL .25I
W. SPRUCE	30994	135421	145912	141443
SPRUCE (red & black)	7139	33752	36778	36070
FIR	4354	23300	23738	22542
HEMLOCK	9039	41653	44560	43535
WHITE PINE	0	0	0	0
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	11694	55688	61418	60139
RED MAPLE	14548	29251	30801	29702
Y. BIRCH	0	0	0	0
W. BIRCH	1436	5328	6222	6173
ASPEN	0	0	0	0
OTHER HARD	7414	35695	38062	36943
TOTAL SOFT	51526	234126	250988	243590
TOTAL HARD	35092	125962	136503	132957
GRAND TOTS	86618	360088	387491	376547

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TABLE NO. 45

## GUYSBOROUGH COUNTY

## SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

## ON PERMANENT SAMPLE PLOTS 1977

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET '000	NEW BRUNSWICK	ROY	INTERNATIONAL .25I
W. SPRUCE	11902	47553	51314	49593
SPRUCE (red & black)	49019	231185	251864	246516
FIR	14953	74670	77606	71961
HEMLOCK	0	0	0	0
WHITE PINE	11621	58488	61039	60502
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	0	0	0	0
RED MAPLE	33778	136384	150748	147135
Y. BIRCH	14447	58384	64899	64439
W. BIRCH	0	0	0	0
ASPEN	0	0	0	0
OTHER HARD	0	0	0	0
TOTAL SOFT	87495	411896	441823	428572
TOTAL HARD	48225	194768	215647	211574
GRAND TOTS	135720	606664	657470	640146

TABLE NO. 46

## INVERNESS COUNTY

## SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

## ON PERMANENT SAMPLE PLOTS 1978

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET 1000	NEW BRUNSWICK	ROY	INTERNATIONAL .251
W. SPRUCE	50320	230626	252104	247187
SPRUCE	2593	11382	11554	11156
FIR	19754	90339	96173	93630
HEMLOCK	0	0	0	0
WHITE PINE	2298	10421	12988	12766
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	22227	104723	111527	109904
RED MAPLE	6394	31789	33087	32370
Y. BIRCH	3111	16716	17385	16647
W. BIRCH	0	0	0	0
ASPEN	1928	11517	11427	11449
OTHER HARD	3320	16748	17149	16991
TOTAL SOFT	74965	342768	372819	364739
TOTAL HARD	36980	181493	190575	187361
GRAND TOTS	111945	524261	563394	552100

TABLE NO. 47

## VICTORIA COUNTY

SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING  
ON PERMANENT SAMPLE PLOTS 1978

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG	NEW BRUNSWICK	ROY	INTERNATIONAL .25C
	CUBIC FEET			
	'000			
W. SPRUCE	11717	47633	53428	52077
SPRUCE	1111	6496	6228	5358
FIR	34263	157875	166870	159951
HEMLOCK	1681	7668	9214	9206
WHITE PINE	6487	33692	35789	35846
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	12970	60747	66748	65624
RED MAPLE	4193	20718	22990	22764
Y. BIRCH	3774	12913	14710	14693
W. BIRCH	1984	7061	8710	8650
ASPEN	2550	16065	17342	17399
OTHER HARD	0	0	0	0
TOTAL SOFT	55259	253364	271529	262438
TOTAL HARD	25471	117504	130500	129130
GRAND TOTS	80730	370868	402029	391568

TABLE NO. 48

## RICHMOND COUNTY

## SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING

ON PERMANENT SAMPLE PLOTS 1978

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET	NEW BRUNSWICK	ROY	INTERNATIONAL .250
	----- '000 -----			
W. SPRUCE	9324	37083	39412	37816
SPRUCE (red & black)	3280	14765	15064	13479
FIR	1491	2867	3604	3156
HEMLOCK	0	0	0	0
WHITE PINE	0	0	0	0
RED PINE	0	0	0	0
LARCH	1941	6480	7602	7557
OTHER SOFT	0	0	0	0
S. MAPLE	4043	19327	19254	18250
RED MAPLE	4287	23356	24540	24515
Y. BIRCH	2275	9557	9745	9008
W. BIRCH	0	0	0	0
ASPEN	0	0	0	0
OTHER HARD	0	0	0	0
TOTAL SOFT	16036	61195	65682	62008
TOTAL HARD	10605	52240	53539	51773
GRAND TOTS	26641	113435	119221	113781

TABLE NO. 49

CAPE BRETON COUNTY

SAWLOG VOLUME FROM 3P DENDROMETRY SAMPLING  
ON PERMANENT SAMPLE PLOTS 1978

SPECIES	GROSS MERCHANTABLE VOLUME		SAWLOG MFBM	
	SAWLOG CUBIC FEET '000	NEW BRUNSWICK	ROY	INTERNATIONAL .25
W. SPRUCE	36578	87322	97341	95178
SPRUCE (red & black)	10445	42623	45669	44001
FIR	7147	26385	28607	27140
HEMLOCK	16712	88957	93849	93092
WHITE PINE	1359	5410	6474	6426
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	1378	4733	5466	5421
RED MAPLE	832	3156	3760	3732
Y. BIRCH	4358	17972	19475	19247
W. BIRCH	0	0	0	0
ASPEN	0	0	0	0
OTHER HARD	0	0	0	0
TOTAL SOFT	72241	250697	271940	265837
TOTAL HARD	6568	25861	28701	28400
GRAND TOTS	78809	276558	300641	294237

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TABLE NO. 50  
EASTERN SUBDIVISION

LINEAL FEET OF PRODUCT FROM

3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977 - 78  
LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	165078	260986	0	165583	186365	778012
SPRUCE (red & black)	119612	510563	0	124711	378628	1133918
FIR	54443	445565	0	53657	1008333	1579234
HEMLOCK	36066	0	0	25835	21063	82964
WHITE PINE	22879	0	0	16577	2416	41872
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	19472	19472
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	63151	0	17697	64255	136723	283252
RED MAPLE	69079	0	52554	139391	731649	1007106
Y. BIRCH	34673	0	7544	28628	233895	363269
W. BIRCH	2761	0	0	1382	89254	93397
ASPEN	0	0	42982	19218	112651	174851
OTHER HARD	15391	0	6120	4236	27277	53024
TOTAL SOFT	398078	1217114	0	386363	1616277	3635472
TOTAL HARD	185055	0	126897	257110	1331449	1974899
GRAND TOTS	583133	1217114	126897	643473	2947726	5610371

TABLE NO. 51

## CAPE BRETON SUBDIVISION

LINEAL FEET OF PRODUCT FROM  
3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	188354	227286	0	117541	635433	1168614
SPRUCE (red & black)	39154	191920	0	38077	625299	894450
FIR	123346	354789	0	113816	3115142	3708449
HEMLOCK	17240	0	0	6224	11169	34633
WHITE PINE	13520	0	0	9326	0	22846
RED PINE	0	0	0	0	0	0
LARCH	2861	5501	0	1686	141739	151787
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	59952	0	22076	63283	195778	341213
RED MAPLE	23172	0	44048	46657	678760	800704
Y. BIRCH	18014	0	39551	59672	612389	736515
W. BIRCH	3703	0	21907	19245	273873	330117
ASPEN	3345	0	0	9908	63462	76715
OTHER HARD	4767	0	6762	4427	241565	258056
TOTAL SOFT	384475	779496	0	286670	4528782	5980779
TOTAL HARD	112953	0	134344	203192	2065827	2543320
GRAND TOTS	497428	779496	134344	489862	6594609	8524099

TABLE NO. 52

## PICTOU COUNTY

LINEAL FEET OF PRODUCT FROM  
3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	90360	134301	0	107387	88320	420368
SPRUCE	29850	286420	0	44296	153973	514539
FIR	13951	134608	0	6895	218856	378846
HEMLOCK	21192	0	0	16705	218	38115
WHITE PINE	6291	0	0	6844	0	13135
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	8109	8109
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	44998	0	17697	52470	74246	190837
RED MAPLE	0	0	21756	22478	253166	310351
Y. BIRCH	12035	0	0	15058	48624	77724
W. BIRCH	0	0	0	0	29078	29078
ASPEN	0	0	42982	19218	88412	150612
OTHER HARD	0	0	0	0	6202	6202
TOTAL SOFT	161644	555329	0	182127	469476	1373112
TOTAL HARD	57033	0	82435	109224	499728	764804
GRAND TOTS	218677	555329	82435	291351	969204	2137916

TABLE NO. 53  
Antigonish County

LINEAL FEET OF PRODUCT FROM  
3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977  
LINEAL FEET (THOUSANDS)

SPECIES	UNDERSIZED			TOTAL
	SAWLOGS	BOLIMOOD	TOPWOOD	
W. SPRUCE	53315	0	40921	189547
SPRUCE (red & black)	10005	0	7644	53342
FIR	9251	0	12310	461017
HEMLOCK	14874	0	9130	44849
WHITE PINE	0	0	0	0
RED PINE	0	0	0	0
LARCH	0	0	0	0
OTHER SOFT	0	0	0	0
S. MAPLE	18153	0	11785	62230
RED MAPLE	14443	5802	28523	127158
Y. BIRCH	0	7544	0	36999
W. BIRCH	2761	0	1382	11537
ASPEN	0	0	0	24239
OTHER HARD	15391	6120	4236	46822
TOTAL SOFT	87445	10897	70005	748755
TOTAL HARD	50748	19466	45926	308985
GRAND TOTS	138193	19466	115931	1057740

TABLE NO. 54

## GUYSBOROUGH COUNTY

## LINEAL FEET OF PRODUCT FROM

## 3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977

## LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	21403	86350	0	17275	43069	168097
SPRUCE (red & black)	79757	211753	0	72771	201756	566037
FIR	31241	254735	0	34452	409834	739371
HEMLOCK	0	0	0	0	0	0
WHITE PINE	16588	0	0	9733	2416	28737
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	11363	11363
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	0	0	0	0	30185	30185
RED MAPLE	54636	0	24996	88390	401575	569597
Y. BIRCH	22638	0	0	13570	158182	248546
W. BIRCH	0	0	0	0	52782	52782
ASPEN	0	0	0	0	0	0
OTHER HARD	0	0	0	0	0	0
TOTAL SOFT	148989	552838	0	134231	668438	1513605
TOTAL HARD	77274	0	24996	101960	642724	901110
GRAND TOTS	226263	552838	24996	236191	1311162	2414715

TABLE NO. 55

## INVERNESS COUNTY

## LINEAL FEET OF PRODUCT FROM

## 3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

## LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED		PULPWOOD	TOTAL	
		SAWLOGS	BOLTWOOD			TOPWOOD
W. SPRUCE	72817	95995	0	51582	220563	440957
SPRUCE	5071	8718	0	7013	125157	145959
FIR	36201	138650	0	29892	1092592	1297335
HEMLOCK	0	0	0	0	0	0
WHITE PINE	4804	0	0	2278	0	7082
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	41799	41799
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	32869	0	0	25738	112273	171004
RED MAPLE	10184	0	39553	30937	345892	434633
Y. BIRCH	3960	0	12550	19816	269543	306680
W. BIRCH	0	0	6960	3788	105047	124935
ASPEN	1718	0	0	3698	48459	53875
OTHER HARD	4767	0	6762	4427	145103	161359
TOTAL SOFT	118893	243363	0	90765	1480111	1933132
TOTAL HARD	53498	0	65825	88404	1026317	1252486
GRAND TOTS	172391	243363	65825	179169	2506428	3185618

## VICTORIA COUNTY

LINEAL FEET OF PRODUCT FROM  
 3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978  
 LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	20667	13342	0	18854	96644	149507
SPRUCE	2717	30122	0	5620	153142	191601
FIR	62900	61399	0	63000	898858	1086157
HEMLOCK	2258	0	0	593	0	2851
WHITE PINE	6030	0	0	4598	0	10628
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	0	0
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	19483	0	12214	24960	5841	62498
RED MAPLE	5749	0	4495	9577	110817	130638
Y. BIRCH	4427	0	6770	11923	157829	185880
W. BIRCH	3703	0	9644	12378	46098	71823
ASPEN	1627	0	0	6210	0	7837
OTHER HARD	0	0	0	0	63418	63418
TOTAL SOFT	94572	104863	0	92665	1148644	1440744
TOTAL HARD	34989	0	33123	65048	384003	522094
GRAND TOTS	129561	104863	33123	157713	1532647	1962838

TABLE NO. 57  
 RICHMOND COUNTY

LINEAL FEET OF PRODUCT FROM  
 3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978  
 LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED		PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD		
W. SPRUCE	18483	93283	0	26259	258568
SPRUCE (red & black)	6397	12545	0	10295	148862
FIR	3153	41013	0	5674	525495
HEMLOCK	0	0	0	0	0
WHITE PINE	0	0	0	0	0
RED PINE	0	0	0	0	0
LARCH	2861	5501	0	1686	53636
OTHER SOFT	0	0	0	0	0
S. MAPLE	4789	0	0	5393	22606
RED MAPLE	5692	0	0	4990	48991
Y. BIRCH	1994	0	1573	8968	81184
W. BIRCH	0	0	0	0	39004
ASPEN	0	0	0	0	0
OTHER HARD	0	0	0	0	6626
TOTAL SOFT	30894	152342	0	43914	986561
TOTAL HARD	12475	0	1573	19351	198411
GRAND TOTS	43369	152342	1573	63265	1184972

TABLE NO. 58  
CAPE BRETON COUNTY

LINEAL FEET OF PRODUCT FROM  
3P DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

LINEAL FEET (THOUSANDS)

SPECIES	SAWLOGS	UNDERSIZED			PULPWOOD	TOTAL
		SAWLOGS	BOLTWOOD	TOPWOOD		
W. SPRUCE	76387	24666	0	20846	197683	319582
SPRUCE (red & black)	24969	140535	0	15149	227375	408028
FIR	21092	113727	0	15250	648037	799462
HEMLOCK	14982	0	0	5631	11169	31782
WHITE PINE	2686	0	0	2450	0	5136
RED PINE	0	0	0	0	0	0
LARCH	0	0	0	0	56352	56352
OTHER SOFT	0	0	0	0	0	0
S. MAPLE	2811	0	9862	7192	65240	85105
RED MAPLE	1547	0	0	1153	183742	186442
Y. BIRCH	7633	0	18658	18965	116455	162771
W. BIRCH	0	0	5303	3079	83724	94355
ASPEN	0	0	0	0	15003	15003
OTHER HARD	0	0	0	0	26418	26453
TOTAL SOFT	140116	278928	0	59326	1140616	1620342
TOTAL HARD	11991	0	33823	30389	490582	570329
GRAND TOTS	152107	278928	33823	89715	1631198	2190671

TABLE 59  
 EASTERN SUBDIVISION  
 NUMBER OF TREES AND BASAL AREA BY PRODUCT  
 FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

SPECIES	Number of Trees (thousands)				Basal Area (thousands square feet)					
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	2,770	1,102		1,187	5,059	2,465	346		1,492	4,303
Spruce (red & black)	2,265	2,065		1,869	6,199	2,086	667		371	3,124
Fir	880	2,517		6,906	10,303	584	1,005		2,543	4,132
Hemlock	665			235	900	568			390	958
White Pine	295			60	355	362			102	464
Red Pine										
Larch				126	126					
Other Softwoods									40	40
<b>Total Softwoods</b>	<b>6,875</b>	<b>5,684</b>		<b>10,383</b>	<b>22,942</b>	<b>6,065</b>	<b>2,018</b>		<b>4,938</b>	<b>13,021</b>
Sugar Maple	1,180		154	1,082	2,416	1,222		67	1,295	2,584
Red Maple	1,165		445	3,473	5,083	1,281		127	1,550	2,958
Yellow Birch	442		59	2,043	2,544	422		39	2,688	3,149
White Birch	59			596	655	46			295	341
Aspen			311	371	682			152	75	227
Other Hardwoods	205		59	125	389	242		23	22	287
<b>Total Hardwoods</b>	<b>3,051</b>		<b>1,028</b>	<b>7,690</b>	<b>11,769</b>	<b>3,213</b>		<b>408</b>	<b>5,925</b>	<b>9,546</b>
<b>Total All Species</b>	<b>9,926</b>	<b>5,684</b>	<b>1,028</b>	<b>18,073</b>	<b>34,711</b>	<b>9,278</b>	<b>2,018</b>	<b>408</b>	<b>10,863</b>	<b>22,567</b>

TABLE 60  
CAPE BRETON SUBDIVISION

NO. OF TREES AND BASAL AREA BY PRODUCT  
FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

SPECIES	NUMBER OF TREES (thousands)					BASAL AREA (thousands square feet)				
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	3575	1596		5050	10221	3335	583		1496	5414
Spruce	441	1743		5376	7560	254	581		1396	2231
Fir	2768	2645		24740	30153	1915	903		8505	11323
Hemlock	471			168	639	865			90	955
White Pine	279				279	338				338
Red Pine										
Larch	112	56		1311	1479	104	24		340	468
Other Swds.										
TOTAL SOFTWOODS	7646	6040		36645	50331	6811	2091		11827	20729
Sugar Maple	1399		311	2153	3863	1398		125	1488	3011
Red Maple	567		434	5405	6406	533		186	3014	3733
Yellow Birch	431		768	6284	7483	593		342	5477	6412
White Birch	94		279	2350	2723	74		91	826	991
Aspen	167			619	786	252			606	858
Other Hwds.	84		843	1379	2306	85		17	1721	1823
TOTAL HARDWOODS	2742		2635	18190	23567	2935		761	13132	16828
TOTAL ALL SPECIES	10388	6040	2635	54835	73898	9746	2091	761	24959	37557

TABLE 61

## PICTOU COUNTY

## NUMBER OF TREES AND BASAL AREA BY PRODUCTS

FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977-78

SPECIES	Number of Trees (thousands)					Basal Area (thousands square feet)				
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	1,287	504		504	2,295	1,177	162		244	1,583
Spruce (red & black)	486	981		486	1,953	330	333		107	770
Fir	185	464		1,125	1,774	144	116		380	640
Hemlock	311			117	428	224			368	592
White Pine	54				54	28				28
Red Pine										
Larch				54	54				7	7
Other Softwoods										
Total Softwoods	2,323	1,949		2,286	6,558	1,903	611		1,106	3,620
Sugar Maple	870		154	582	1,606	924		67	690	1,681
Red Maple			154	1,213	1,367			56	529	585
Yellow Birch	154			442	596	111			898	1,009
White Birch				117	117				15	15
Aspen			311	308	619			152	67	219
Other Hardwoods										
Total Hardwoods	1,024		619	2,662	4,305	1,035		275	2,199	3,509
Total All Species	3,347	1,949	619	4,948	10,863	2,938	611	275	3,305	7,129

TABLE 62  
 ANTIGONISH COUNTY  
 NUMBER OF TREES AND BASAL AREA BY PRODUCT  
 FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977

SPECIES	Number of Trees (thousands)				Basal Area (thousands square feet)					
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	1,121	236		382	1,739	1,018	74		1,110	2,202
Spruce (red & black)	295	59		177	531	349	12		53	414
Fir	236	323		3,103	3,662	149	363		1,104	1,616
Hemlock	354			118	472	344			22	366
White Pine										
Red Pine										
Larch										
Other Softwoods										
<b>Total Softwoods</b>	<b>2,006</b>	<b>618</b>		<b>3,780</b>	<b>6,404</b>	<b>1,860</b>	<b>449</b>		<b>2,289</b>	<b>4,598</b>
Sugar Maple	310			188	498	298			36	334
Red Maple	413		63	550	1,026	558			195	753
Yellow Birch			59	500	559		39		751	790
White Birch	59			118	177	46			105	151
Aspen				63	63				8	8
Other Hardwoods	205		59	125	389	242		23	22	287
<b>Total Hardwoods</b>	<b>987</b>		<b>181</b>	<b>1,544</b>	<b>2,712</b>	<b>1,144</b>		<b>62</b>	<b>1,117</b>	<b>2,323</b>
<b>Total All Species</b>	<b>2,993</b>	<b>618</b>	<b>181</b>	<b>5,324</b>	<b>9,116</b>	<b>3,004</b>	<b>449</b>	<b>62</b>	<b>3,406</b>	<b>6,921</b>

TABLE 63

## GUYSBOROUGH COUNTY

## NUMBER OF TREES AND BASAL AREA BY PRODUCT

FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1977

SPECIES	Number of Trees (thousands)					Basal Area (thousands square feet)				
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	362	362		301	1,025	270	110		138	518
Spruce (red & black)	1,484	1,025		1,206	3,715	1,407	322		211	1,940
Fir	459	1,730		2,678	4,867	291	526		1,059	1,876
Hemlock										
White Pine	241			60	301	334			102	436
Red Pine										
Larch				72	72				33	33
Other Softwoods										
Total Softwoods	2,546	3,117		4,317	9,980	2,302	958		1,543	4,803
Sugar Maple				312	312				569	569
Red Maple	752		228	1,710	2,690	723		71	826	1,620
Yellow Birch	288			1,101	1,389	311			1,039	1,350
White Birch				361	361				175	175
Aspen										
Other Hardwoods										
Total Hardwoods	1,040		228	3,484	4,752	1,034		71	2,609	3,714
Total All Species	3,586	3,117	228	7,801	14,732	3,336	958	71	4,152	8,517

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TABLE 64  
 INVERNESS COUNTY  
 NUMBER OF TREES AND BASAL AREA BY PRODUCT  
 FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

Species	NUMBER OF TREES (thousands)					BASAL AREA (thousands square feet)				
	Sawlogs	Undersized Sawlogs	Boltwood	Pulpwood	Total	Sawlogs	Undersized Sawlogs	Boltwood	Pulpwood	Total
White Spruce	1,500	541		1,347	3,388	1,574	216		491	2,281
Spruce	128	55		610	793	84	20		120	224
Fir	608	699		6,598	7,905	445	241		2,746	3,432
Hemlock										
White Pine	55				55	40				40
Red Pine										
Larch				222	222				44	44
Other Softwoods										
<b>Total Softwoods</b>	<b>2,291</b>	<b>1,295</b>		<b>8,777</b>	<b>12,363</b>	<b>2,143</b>	<b>477</b>		<b>3,401</b>	<b>6,021</b>
Sugar Maple	623			917	1,540	649			884	1,533
Red Maple	169		358	2,294	2,821	144		156	1,204	1,504
Yellow Birch	115		189	1,826	2,130	142		101	1,482	1,725
White Birch			73	588	661			27	245	272
Aspen	73			442	515	98			566	664
Other Hardwoods	84		843	317	1,244	85		17	1,042	1,144
<b>Total Hardwoods</b>	<b>1,064</b>		<b>1,463</b>	<b>6,384</b>	<b>8,911</b>	<b>1,118</b>		<b>301</b>	<b>5,423</b>	<b>6,842</b>
<b>Total All Species</b>	<b>3,355</b>	<b>1,295</b>	<b>1,463</b>	<b>15,161</b>	<b>21,274</b>	<b>3,261</b>	<b>477</b>	<b>301</b>	<b>8,824</b>	<b>12,863</b>

TABLE 65

## VICTORIA COUNTY

NUMBER OF TREES AND BASAL AREA BY PRODUCT  
FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

Species	NUMBER OF TREES (thousands)					BASAL AREA (thousands square feet)				
	Sawlogs	Undersized Sawlogs	Boltwood	Pulpwood	Total	Sawlogs	Undersized Sawlogs	Boltwood	Pulpwood	Total
White Spruce	459	102		707	1,268	365	44		291	700
Spruce	94	247		1,085	1,426	45	94		436	575
Fir	1,406	495		7,641	9,542	1,039	195		3,173	4,407
Hemlock	51				51	65				65
White Pine	145				145	248				248
Red Pine										
Larch										
Other Softwoods										
<b>Total Softwoods</b>	<b>2,155</b>	<b>844</b>		<b>9,433</b>	<b>12,432</b>	<b>1,762</b>	<b>333</b>		<b>3,900</b>	<b>5,995</b>
Sugar Maple	534		153	76	763	501		64	67	632
Red Maple	127		76	981	1,184	134		30	449	613
Yellow Birch	94		170	2,083	2,347	105		83	2,532	2,720
White Birch	94		127	418	639	74		39	215	328
Aspen	94				94	154				154
Other Hardwoods				628	628				421	421
<b>Total Hardwoods</b>	<b>943</b>		<b>526</b>	<b>4,186</b>	<b>5,655</b>	<b>968</b>		<b>216</b>	<b>3,684</b>	<b>4,868</b>
<b>Total All Species</b>	<b>3,098</b>	<b>844</b>	<b>526</b>	<b>13,619</b>	<b>18,087</b>	<b>2,730</b>	<b>333</b>	<b>216</b>	<b>7,584</b>	<b>10,863</b>

TABLE 66

## RICHMOND COUNTY

## NUMBER OF TREES AND BASAL AREA BY PRODUCT

FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

SPECIES	Number of Trees (thousands)				Basal Area (thousands square feet)					
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	619	731		956	2,306	386	251		162	799
Spruce (red & black)	219	112		1,799	2,130	125	39		338	502
Fir	112	281		3,722	4,115	58	77		755	890
Hemlock										
White Pine										
Red Pine										
Larch	112	56		506	674	104	24		151	279
Other Softwoods										
Total Softwoods	1,062	1,180		6,983	9,225	673	391		1,406	2,470
Sugar Maple	163			212	375	197			225	422
Red Maple	212			316	528	215			133	348
Yellow Birch	163		49	789	1,001	202		20	555	777
White Birch				374	374				74	74
Aspen										
Other Hardwoods				49	49				28	28
Total Hardwoods	538		49	1,740	2,327	614		20	1,015	1,649
Total All Species	1,600	1,180	49	8,723	11,552	1,287	391	20	2,421	4,119

TABLE 67  
 CAPE BRETON COUNTY  
 NUMBER OF TREES AND BASAL AREA BY PRODUCT  
 FROM 3P-DENDROMETRY SAMPLING OF PERMANENT SAMPLE PLOTS 1978

SPECIES	Number of Trees (thousands)					Basal Area (thousands square feet)				
	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL	SAWLOGS	UNDERSIZED SAWLOGS	BOLTWOOD	PULPWOOD	TOTAL
White Spruce	997	222		2,040	3,259	-1,010	72		552	1,634
Spruce (red & black)		1,329		1,882	3,211		428		502	930
Fir	642	1,170		6,779	8,591	373	390		1,831	2,594
Hemlock	420			168	588	800			90	890
White Pine	79				79	50				50
Red Pine										
Larch				583	583				145	145
Other Softwoods										
<b>Total Softwoods</b>	<b>2,138</b>	<b>2,721</b>		<b>11,452</b>	<b>16,311</b>	<b>2,233</b>	<b>890</b>		<b>3,120</b>	<b>6,243</b>
Sugar Maple	79		158	948	1,185	51		61	312	424
Red Maple	59			1,814	1,873	40			1,228	1,268
Yellow Birch	59		360	1,586	2,005	144		138	908	1,190
White Birch			79	970	1,049			25	292	317
Aspen				177	177				40	40
Other Hardwoods				385	385				230	230
<b>Total Hardwoods</b>	<b>197</b>		<b>597</b>	<b>5,880</b>	<b>6,674</b>	<b>235</b>		<b>224</b>	<b>3,010</b>	<b>3,469</b>
<b>Total All Species</b>	<b>2,335</b>	<b>2,721</b>	<b>597</b>	<b>17,332</b>	<b>22,985</b>	<b>2,468</b>	<b>890</b>	<b>224</b>	<b>6,130</b>	<b>9,712</b>