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1968

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# CANADIAN FORESTRY STATISTICS

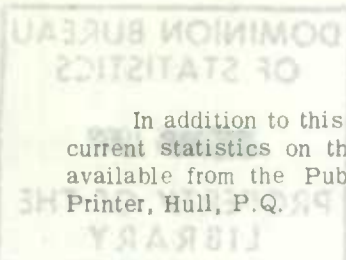
## 1965

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## PUBLICATIONS

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# CANADIAN FORESTRY STATISTICS

1965

With the publication of the results of the 1962 Census of Manufacturers, the Dominion Bureau of Statistics completed a major revision in classification and concepts of Division 5 (Manufacturing). The principal statistics for the manufacturing industries in this publication are on this basis (the Revised Standard Industrial Classification and New Establishment Concept) for the years 1961-65.

Beginning with 1965 identical concepts have been implemented for Division 2 (Major Group 1—Logging) of the Revised Standard Industrial Classification but, unlike for Division 5 (Manufacturing), the revised data are available back to 1963 only. This publication includes logging principal statistics on the old basis for the years 1961 to 1964 inclusive and on the new basis for the years 1963 to 1965 inclusive, thus providing for a two year overlap.

There is a considerable difference between the logging statistics on the old basis and those compiled on the new basis. A detailed explanation of these differences is given in the "Revisions to the Logging Statistics" following this report. This is followed by a chapter "Concepts and Definitions" as applied to the Logging Industry Statistics (Revised Standard Industrial Classification and New Establishment Concept). A description of the definitions and concepts followed in the statistics for the Manufacturing Industries was included in the 1963-64 issue of this publication.

Table 8 gives the Estimated Production on Farm Woodlots by Products and Provinces. Formerly this table was included in Catalogue No. 25-201, "Logging".

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## SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- P preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

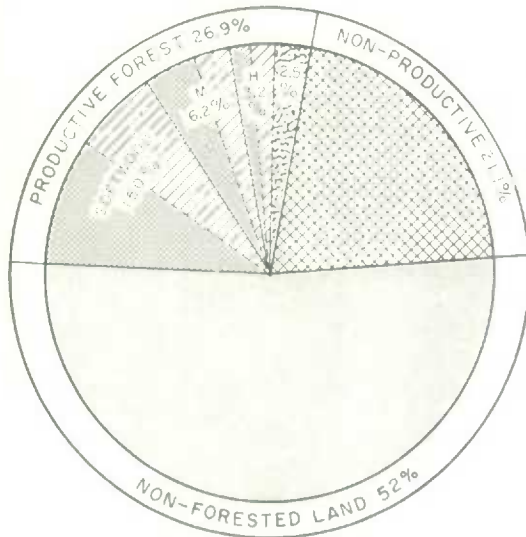
TABLE 1. Area Classification by Province, 1963

Classification	Newfoundland		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba
	Labrador	Island						
	thousands of acres							
Forest land:								
Productive forest land:								
Softwood — Merchantable .....	11,358	4,272	50	4,653	4,030	48,440	28,230	9,388
Young growth .....	504	3,231	253	505	1,849	26,190	22,992	13,034
Mixedwood — Merchantable .....	—	258	85	3,360	4,671	30,400	15,701	3,494
Young growth .....	—	172	93	293	1,307	16,820	21,945	4,169
Hardwood — Merchantable .....	—	6	8	538	1,241	9,210	4,198	2,178
Young growth .....	—	156	7	29	609	9,180	11,495	3,051
Unclassified <sup>1</sup> .....	1,500	215	24	273	1,581	960	762	1,927
Totals .....	13,362	8,310	520	9,651	15,288	141,200	105,323	37,241
Non-productive forest land .....	28,237	6,278	78	764	283	100,800	62,192	41,364
Total forest land .....	41,599	14,588	598	10,415	15,571	242,000	167,515	78,605
Non-forest land .....	23,605	11,757	800	2,642	2,244	93,270	52,704	56,931
Total land .....	65,204	26,345	1,398	13,057	17,815	335,270	220,219	135,536
Water .....	7,005	1,405	—	655	332	45,440	43,833	25,104
Total area .....	72,209	27,750	1,398	13,712	18,147	380,710	264,052	160,640
	Saskatchewan	Alberta	British Columbia	Provincial total	Northwest Territories	Yukon Territory	Total Canada	
	thousands of acres							
Forest land:								
Productive forest land:								
Softwood — Merchantable .....	6,767	9,269	51,411	177,868	12,544	9,984	200,396	
Young growth .....	2,184	8,987	56,183	135,912	1,920	4,480	142,312	
Mixedwood — Merchantable .....	5,767	8,087	—	71,823	5,120	7,552	84,495	
Young growth .....	3,229	7,237	—	55,265	960	1,280	57,505	
Hardwood — Merchantable .....	5,891	3,363	2,525	29,158	640	2,368	32,166	
Young growth .....	1,135	8,786	5,090	39,538	320	1,280	41,138	
Unclassified <sup>1</sup> .....	1,998	28,877	18,174	56,291	—	—	56,291	
Totals .....	26,971	74,606	133,383	565,855	21,504	26,944	614,303	
Non-productive forest land .....	48,381	26,255	37,905	352,537	103,040	25,024	480,601	
Total forest land .....	75,352	100,861	171,288	918,392	124,544	51,968	1,094,904	
Non-forest land .....	65,564	58,371	58,650	426,538	677,656	79,454	1,183,648	
Total land .....	140,916	159,232	229,938	1,344,930	802,200	131,422	2,278,552	
Water .....	20,172	4,150	4,465	152,561	32,938	1,107	186,606	
Total area .....	161,088	163,382	234,403	1,497,491	835,138	132,529	2,465,158	

<sup>1</sup> Includes areas of recent burn, cut-over, or windfall, not yet re-stocked.

Source: Department of Forestry.

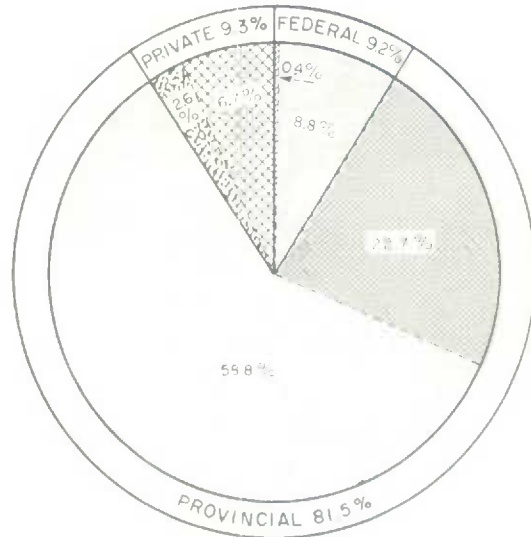
DISTRIBUTION OF LAND AREAS  
1963



LEGEND



LAND TENURE PRODUCTIVE FOREST  
1963

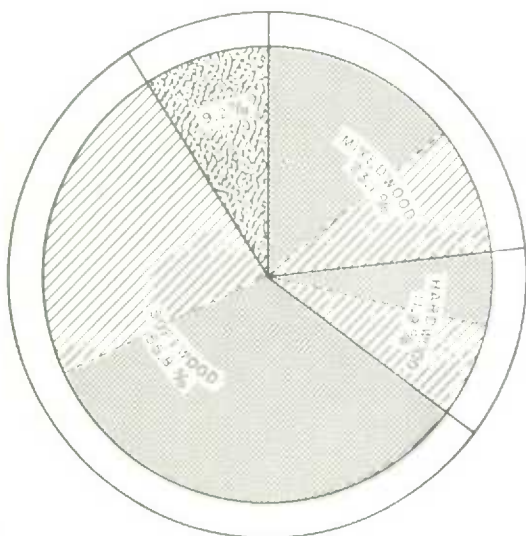


LEGEND



PRODUCTIVE FOREST AREA, 1963

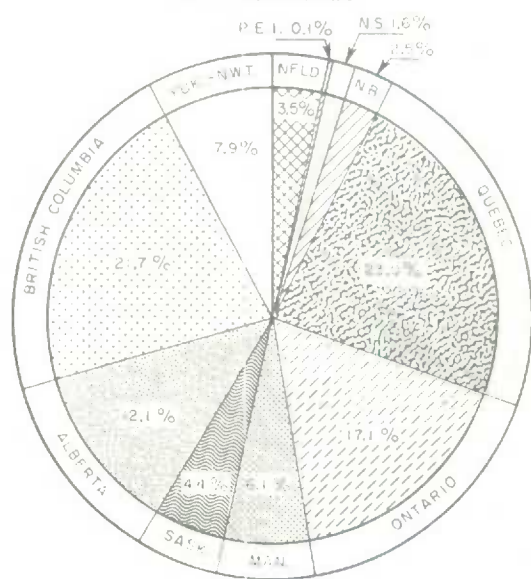
BY TYPES



LEGEND



BY PROVINCES





**TABLE 2. Tenure of Productive Forest Lands, 1963**

Classification	Newfoundland		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	Labrador	Island					
	thousands of acres						
<b>Provincial Crown:</b>							
Occupied:							
Leases and licences .....	12,300	4,324	—	735	6,658	49,795	53,698
Permits and sales .....	—	—	—	12	—	—	—
Other .....	—	—	—	—	—	—	10
Sub-totals .....	12,300	4,324	—	747	6,658	49,795	53,708
Unoccupied .....	1,062	2,868	2	1,425	390	75,188	41,192
Totals .....	13,362	7,192	2	2,172	7,048	124,983	94,900
<b>Federal Crown:</b>							
Occupied:							
Leases and licences .....	—	—	—	—	—	—	—
Other .....	—	—	2	20	264	144	61
Sub-totals .....	—	—	2	20	264	144	61
Unoccupied .....	—	—	1	—	51	—	—
Totals .....	—	—	3	20	315	144	61
<b>Privately-owned:</b>							
Farm woodlots .....	—	20	267	1,363	1,231	4,274	3,255
Others .....	—	1,098	248	6,096	6,694	11,799	7,107
Totals .....	—	1,118	515	7,459	7,925	16,073	10,362
Grand totals .....	13,362	8,310	520	9,651	12,288	141,200	105,323
	Manitoba	Saskat- chewan	Alberta	British Columbia	Northwest Territories	Yukon Territory	Canada
	thousands of acres						
<b>Provincial Crown:</b>							
Occupied:							
Leases and licences .....	952	1,162	4,902	2,454	—	—	136,980
Permits and sales .....	384	640	—	1,500	—	—	2,536
Other .....	—	—	—	—	—	—	10
Sub-totals .....	1,336	1,802	4,902	3,954	—	—	139,526
Unoccupied .....	32,632	21,269	62,392	122,256	—	—	360,676
Totals .....	33,968	23,071	67,294	126,210	—	—	500,202
<b>Federal Crown:</b>							
Occupied:							
Leases and licences .....	—	—	188	—	1	16	205
Other .....	205	379	856	589	—	—	2,520
Sub-totals .....	205	379	1,044	589	1	16	2,725
Unoccupied .....	626	771	4,145	—	21,503	26,927	54,024
Totals .....	831	1,150	5,189	589	21,504	26,943	56,749
<b>Privately-owned:</b>							
Farm woodlots .....	1,489	1,418	2,123	734	—	1	16,175
Others .....	953	1,332	—	5,850	—	—	41,177
Totals .....	2,442	2,750	2,123	6,584	—	1	57,352
Grand totals .....	37,241	26,971	74,606	133,383	21,504	26,944	614,303

Source: Department of Forestry.

TABLE 3. Merchantable Timber by Province, 1963

Species	Newfoundland		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba
	Labrador	Island						
millions of cubic feet								
Softwoods:								
Spruce .....	6,256	2,601	105	3,063	5,180	52,116	37,194	7,231
Balsam Fir .....	799	4,063	53	2,479	5,151	25,906	6,606	440
Douglas Fir .....	—	—	—	—	—	—	—	—
Hemlock .....	—	—	—	390	153	353	1,131	—
White Pine .....	—	—	—	421	386	950	3,279	—
Red Pine .....	—	—	—	35	45	162	938	—
Jack and Lodgepole Pines .....	—	—	—	3	263	3,029	15,158	1,956
Ponderosa Pine .....	—	—	—	—	—	—	—	—
Cedar .....	—	—	5	1	698	1,777	2,206	24
Larch .....	—	—	12	77	72	78	142	74
Yellow Cedar .....	—	—	—	—	—	—	—	—
Totals .....	7,055	6,664	175	6,469	11,948	84,371	66,654	9,725
Hardwoods:								
Poplar .....	—	—	4	103	616	2,554	22,156	2,663
White Birch .....	277	300	32	272	691	11,109	11,672	414
Yellow Birch .....	—	1	2	789	714	6,404	3,116	—
Maple .....	—	—	30	1,613	2,168	3,104	5,278	—
Beech .....	—	—	7	292	619	378	462	—
Elm .....	—	—	—	2	—	13	847	—
Ash .....	—	—	—	122	—	78	437	—
Basswood .....	—	—	—	—	—	81	294	—
Oak .....	—	—	—	104	—	—	423	—
Other hardwoods .....	—	—	—	16	115	40	231	44
Totals .....	277	300	75	3,313	4,923	23,761	44,916	3,121
Totals, all species .....	7,332	6,964	250	9,782	16,871	108,132	111,570	12,846
	Saskatchewan	Alberta	British Columbia	Provincial total	Northwest Territories	Yukon Territory	Canada	
millions of cubic feet								
Softwoods:								
Spruce .....	6,474	16,074	113,201	249,496	10,120	7,386	267,002	
Balsam Fir .....	234	1,141	43,859	90,731	—	2	90,731	
Douglas Fir .....	—	—	33,562	33,562	—	—	33,562	
Hemlock .....	—	—	61,335	63,362	—	—	63,362	
White Pine .....	—	—	1,924	6,960	—	—	6,960	
Red Pine .....	—	—	—	1,180	—	—	1,180	
Jack and Lodgepole Pines .....	3,528	13,682	66,250	103,869	2	2	103,869	
Ponderosa Pine .....	—	—	2,553	2,553	—	—	2,553	
Cedar .....	—	—	29,452	34,163	—	—	34,163	
Larch .....	231	—	2,297	2,982	—	—	2,982	
Yellow Cedar .....	—	—	2,699	2,699	—	—	2,699	
Totals .....	10,467	30,897	357,132	591,557	10,120	7,386	609,063	
Hardwoods:								
Poplar .....	8,681	24,063	14,072	74,913	3,909	1,770	80,591	
White Birch .....	977	—	4,758	30,501	3	3	30,501	
Yellow Birch .....	—	—	—	11,025	—	—	11,025	
Maple .....	20	—	114	12,327	—	—	12,327	
Beech .....	—	—	—	1,758	—	—	1,758	
Elm .....	24	—	—	886	—	—	886	
Ash .....	2	—	—	639	—	—	639	
Basswood .....	—	—	—	375	—	—	375	
Oak .....	—	—	—	527	—	—	527	
Other hardwoods .....	—	—	843	1,289	—	—	1,289	
Totals .....	9,704	24,063	19,787	134,240	3,909	1,770	139,918	
Totals, all species .....	20,171	54,960	376,919	725,797	14,029	9,156	748,981	

<sup>1</sup> Included with "White Birch".

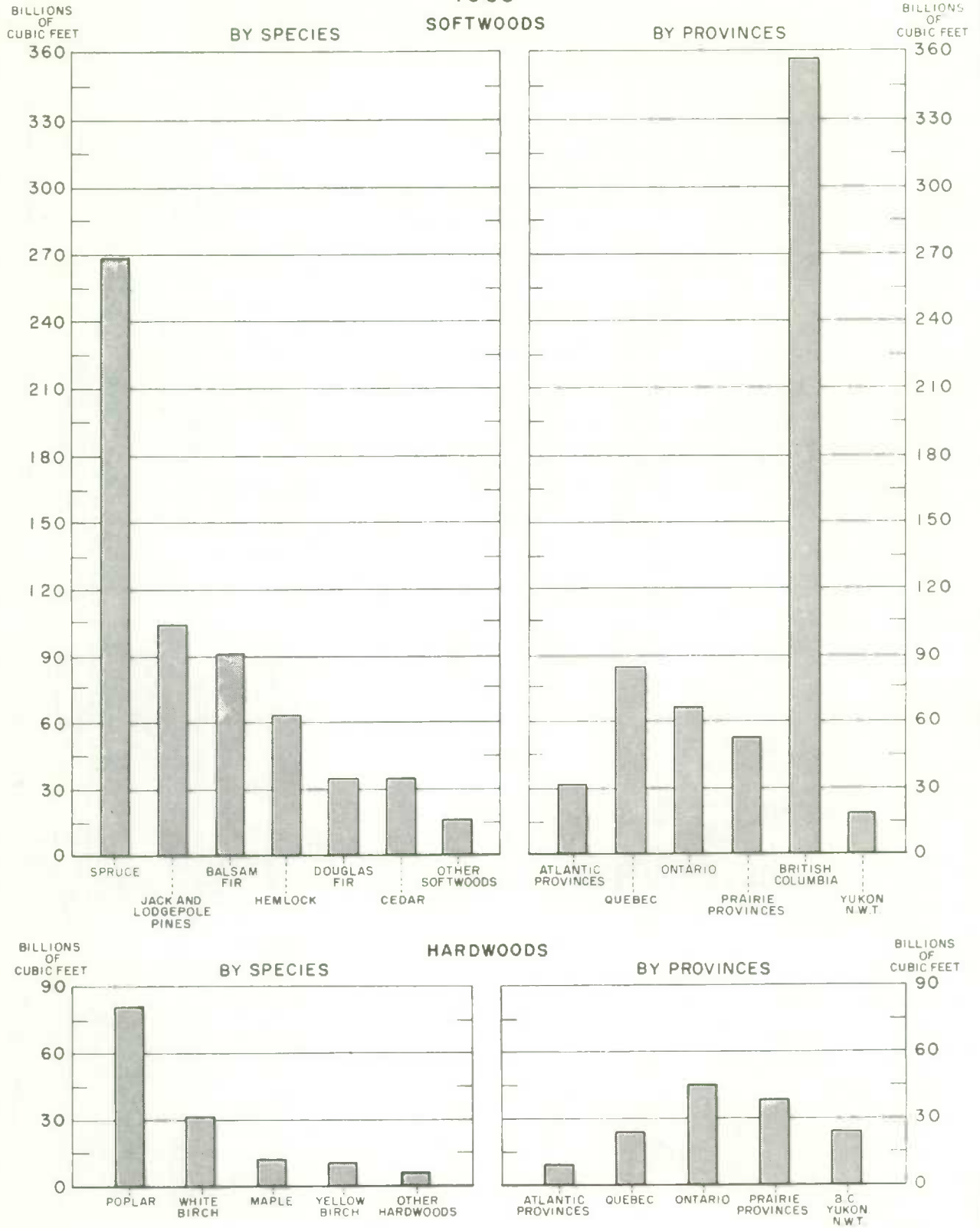
<sup>2</sup> Included with "Spruce".

<sup>3</sup> Included with "Poplar".

Source: Department of Forestry.

# MERCHANTABLE TIMBER

1963

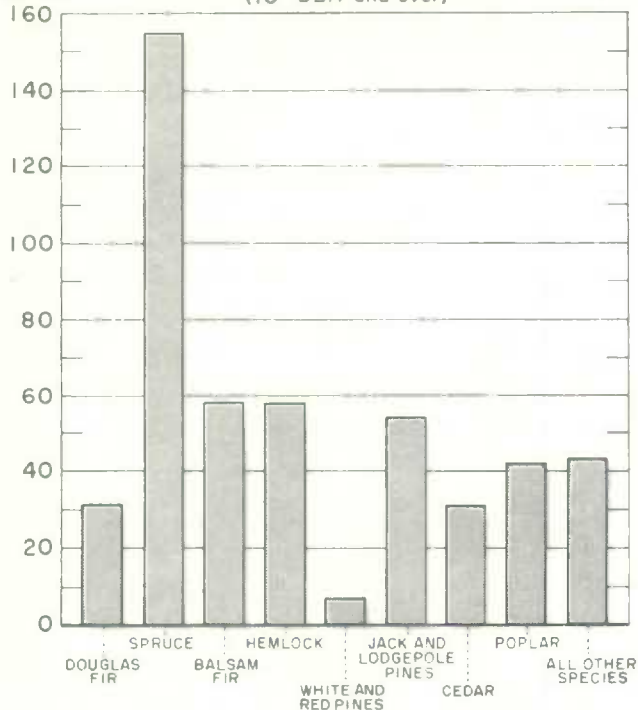




## TIMBER OF MERCHANTABLE SIZE, BY SPECIES, 1963

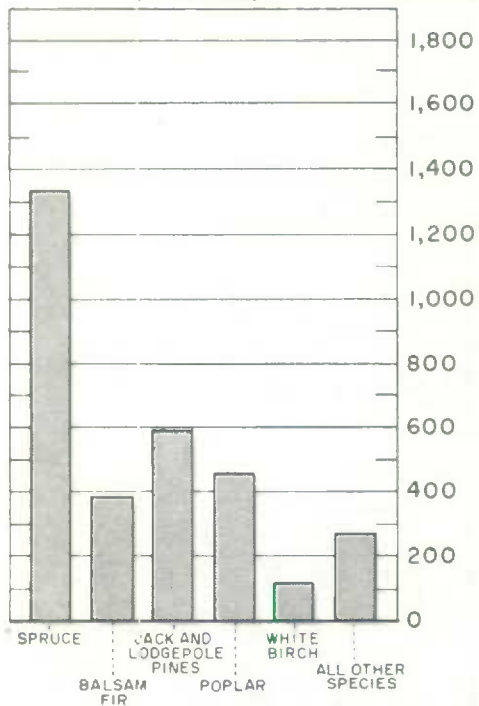
BILLIONS  
OF  
CUBIC FEET

### LARGE MATERIAL (10" DBH and over)



### SMALLER MATERIAL (4"-9" DBH)

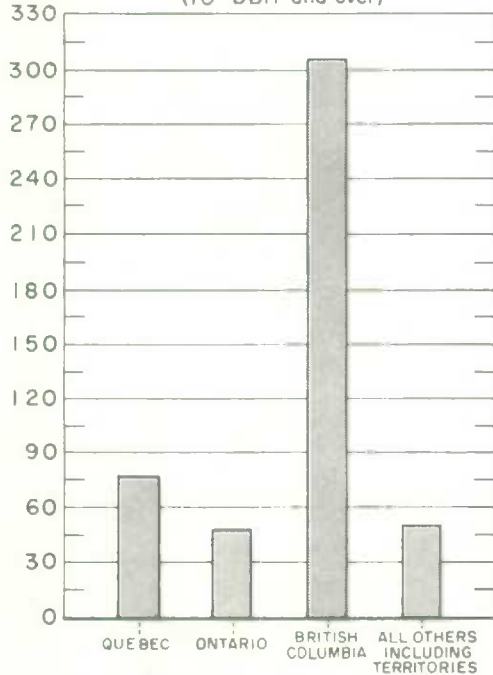
MILLIONS  
OF  
CORDS



## TIMBER OF MERCHANTABLE SIZE, BY PROVINCES, 1963

BILLIONS  
OF  
CUBIC FEET

### LARGE MATERIAL (10" DBH and over)



### SMALLER MATERIAL (4"-9" DBH)

MILLIONS  
OF  
CORDS

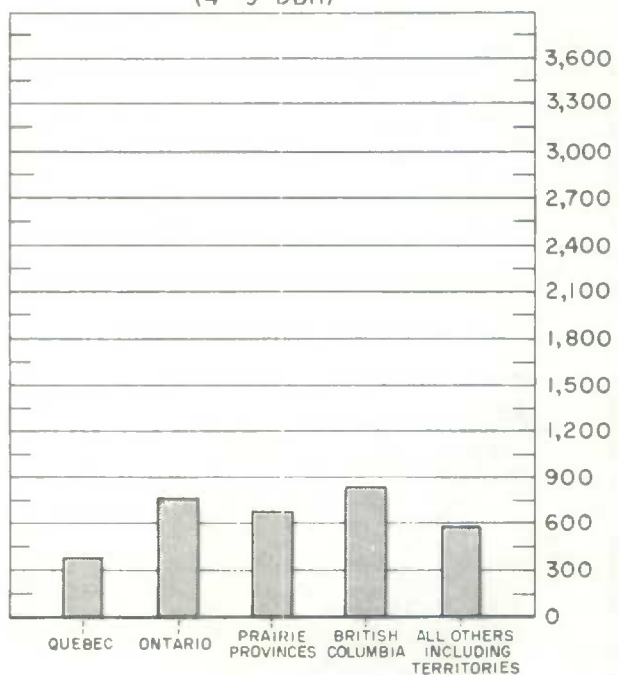


TABLE 4. Merchantable Timber by Size Class and Province, 1963

No.	Species	Newfoundland		Prince Edward Island	Nova Scotia	New Brunswick	Quebec
		Labrador	Island				
Large material (Suitable for sawtimber) — 10'' D.B.H. and over millions of cubic feet							
Softwoods:							
1	Spruce .....	986	400	11	1,081	1,980	36,481
2	Balsam Fir .....	119	620	6	417	1,427	18,134
3	Douglas Fir .....	—	—	—	—	—	—
4	Hemlock .....	—	—	—	278	109	353
5	White Pine .....	—	—	—	334	324	665
6	Red Pine .....	—	—	—	22	21	113
7	Jack and Lodgepole Pines .....	—	—	—	1	56	2,121
8	Ponderosa Pine .....	—	—	—	—	—	—
9	Cedar .....	—	—	1	1	366	1,776
10	Larch .....	—	—	2	15	17	59
11	Yellow Cedar .....	—	—	—	—	—	—
12	Totals .....	1,105	1,020	20	2,149	4,300	59,702
Hardwoods:							
13	Poplar .....	—	—	1	36	263	1,915
14	White Birch .....	77	167	2	67	248	8,016
15	Yellow Birch .....	—	—	—	533	504	4,770
16	Maple .....	—	—	3	703	1,193	2,328
17	Beech .....	—	—	1	120	396	284
18	Elm .....	—	—	—	1	—	10
19	Ash .....	—	—	—	38	—	58
20	Basswood .....	—	—	—	—	—	61
21	Oak .....	—	—	—	29	—	—
22	Other hardwoods .....	—	—	—	2	48	30
23	Totals .....	77	167	7	1,529	2,652	17,472
24	Totals, all species .....	1,182	1,187	27	3,678	6,952	77,174
Smaller material — 4'' to 9'' D.B.H. thousands of cords (Units of 85 cubic feet)							
Softwoods:							
25	Spruce .....	62,000	25,900	1,106	23,308	37,649	183,939
26	Balsam Fir .....	8,000	40,500	553	24,267	43,815	91,435
27	Douglas Fir .....	—	—	—	—	—	—
28	Hemlock .....	—	—	—	1,310	518	—
29	White Pine .....	—	—	—	1,022	732	3,355
30	Red Pine .....	—	—	—	156	282	570
31	Jack and Lodgepole Pines .....	—	—	—	33	2,430	10,692
32	Ponderosa Pine .....	—	—	—	—	—	—
33	Cedar .....	—	—	53	6	3,906	—
34	Larch .....	—	—	117	722	646	229
35	Yellow Cedar .....	—	—	—	—	—	—
36	Totals .....	70,000	66,400	1,829	50,824	89,978	290,220
Hardwoods:							
37	Poplar .....	—	—	41	789	4,160	7,511
38	White Birch .....	2,353	1,569	341	2,411	5,217	36,392
39	Yellow Birch .....	—	—	24	3,004	2,475	19,222
40	Maple .....	—	—	318	10,717	11,463	9,128
41	Beech .....	—	—	76	2,031	2,617	1,112
42	Elm .....	—	—	—	10	—	38
43	Ash .....	—	—	—	991	—	229
44	Basswood .....	—	—	—	—	—	238
45	Oak .....	—	—	—	871	—	—
46	Other hardwoods .....	—	—	—	164	781	115
47	Totals .....	2,353	1,569	800	20,988	26,713	73,985
48	Totals, all species .....	72,353	67,969	2,629	71,812	116,691	364,205

<sup>1</sup> Included with "Spruce".

<sup>2</sup> Included with "Poplar".

TABLE 4. Merchantable Timber by Size Class and Province, 1963

Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Provincial total	Northwest Territories	Yukon Territory	Canada	No.
Large material (Suitable for sawtimber) - 10" D.B.H. and over									
millions of cubic feet									
8,698	1,479	1,172	8,656	92,825	153,769	600	926	155,295	1
1,476	69	52	485	35,281	58,086	—	—	58,086	2
—	—	—	—	30,564	30,564	—	—	30,564	3
910	—	—	—	55,886	57,536	—	—	57,536	4
2,749	—	—	—	1,636	5,708	—	—	5,708	5
754	—	—	—	—	910	—	—	910	6
5,634	310	503	4,100	41,082	53,807	1	1	53,807	7
—	—	—	—	2,473	2,473	—	—	2,473	8
1,344	3	—	—	27,926	31,417	—	—	31,417	9
19	2	15	—	1,876	2,005	—	—	2,005	10
—	—	—	—	2,471	2,471	—	—	2,471	11
21,584	1,863	1,742	13,241	292,020	398,746	600	926	400,272	12
12,266	957	2,999	12,343	10,810	41,590	424	180	42,194	13
4,886	99	151	—	2,768	16,481	—	—	16,481	14
2,792	—	—	—	—	8,599	—	—	8,599	15
3,873	—	5	—	107	8,212	—	—	8,212	16
345	—	—	—	—	1,146	—	—	1,146	17
573	—	18	—	—	602	—	—	602	18
228	—	1	—	—	325	—	—	325	19
228	—	—	—	—	289	—	—	289	20
220	—	—	—	—	249	—	—	249	21
55	9	—	—	652	796	—	—	796	22
25,466	1,065	3,174	12,343	14,337	78,289	424	180	78,893	23
47,050	2,928	4,916	25,584	306,357	477,035	1,024	1,106	479,165	24
Smaller material - 4" to 9" D.B.H.									
thousands of cords (Units of 85 cubic feet)									
335,248	67,682	62,379	87,270	239,721	1,126,202	112,000	76,000	1,314,202	25
60,350	4,364	2,131	7,723	100,918	384,057	—	—	384,057	26
—	—	—	—	35,276	35,276	—	—	35,276	27
2,605	—	—	—	64,099	68,532	—	—	68,532	28
6,225	—	—	—	3,389	14,723	—	—	14,723	29
2,166	—	—	—	—	3,174	—	—	3,174	30
112,057	19,362	35,590	112,727	296,086	588,977	1	1	588,977	31
—	—	—	—	936	936	—	—	936	32
10,141	241	—	—	17,952	32,299	—	—	32,299	33
1,444	849	2,536	—	4,952	11,495	—	—	11,495	34
—	—	—	—	2,692	2,692	—	—	2,692	35
530,236	92,498	102,637	207,720	766,021	2,268,363	112,000	76,000	2,456,363	36
116,343	20,060	66,847	137,885	38,392	392,028	41,000	18,700	451,728	37
79,827	3,716	9,713	—	23,407	164,946	—	—	164,946	38
3,814	—	—	—	—	28,539	—	—	28,539	39
16,538	—	172	—	73	48,409	—	—	48,409	40
1,371	—	—	—	—	7,207	—	—	7,207	41
3,224	—	73	—	—	3,345	—	—	3,345	42
2,448	—	17	—	—	3,685	—	—	3,685	43
777	—	—	—	—	1,015	—	—	1,015	44
2,397	—	—	—	—	3,268	—	—	3,268	45
2,086	412	—	—	2,247	5,805	—	—	5,805	46
228,825	24,188	76,822	137,885	64,119	685,247	41,000	18,700	717,947	47
759,061	116,686	179,459	345,605	830,140	2,926,610	153,000	94,700	3,174,310	48

<sup>1</sup> Included with "White Birch".

Source: Department of Forestry.

TABLE 5. Depletion, 1961-65

Year	Utilization					Total	Fire losses	Depletion¹
	Logs and bolts	Pulpwood	Other primary products	Total industrial wood	Non-industrial wood²			Volume
	thousands of cubic feet of merchantable timber							
1961 .....	1,730,433	1,150,086	54,076	2,934,595	240,707	3,175,302	2,649,996	5,825,298
1962 .....	1,931,210	1,052,102	68,064	3,051,376	226,530	3,277,906	125,532	3,403,438
1963 .....	2,118,600	1,129,605	61,865	3,310,070	212,940	3,523,010	87,980	3,610,990
1964 .....	2,186,595	1,184,947	56,564	3,428,106	198,879	3,626,985	288,466	3,915,451
1965 .....	2,211,299	1,206,516	58,459	3,476,274	184,395	3,660,669	132,636	3,793,305

<sup>1</sup> The figures for depletion do not include wastage caused by agencies other than fire, such as insects, diseases and natural mortality, for which no reliable estimates are available.

<sup>2</sup> Includes fuelwood and wood for charcoal.

Source: Annual reports "Logging", Dominion Bureau of Statistics and Department of Forestry.

TABLE 6. Principal Statistics - Logging, 1961-64

Based on total production

Year	Employees (man-years)	Salaries and wages	Cost of materials	Net value of production	Gross value of production
	number	thousands of dollars			
1961	94,681 <sup>1</sup>	422,374	137,576	708,459	846,035
1962	85,280 <sup>1</sup>	398,575	140,900	746,914	887,814
1963	95,983 <sup>2</sup>	421,571	147,499	790,413	937,912
1964	95,894 <sup>2</sup>	442,374	157,763	857,983	1,015,746

<sup>1</sup> Man-year—British Columbia 260 days, other provinces 300 days.

<sup>2</sup> Man-year—British Columbia 240 days, other provinces 270 days.

Source: Annual reports "Logging", Dominion Bureau of Statistics.

TABLE 6A. Principal Statistics - Logging, 1963-65

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Establishments	Logging activity						Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments	Value added	Working owners and partners		Employees	
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages
	No.		'000			\$'000				\$'000		\$'000
<b>1963</b>												
Newfoundland	61	2,388	5,792	9,426	659	5,064	24,355	15,780	38	86	2,653	11,066
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	159	953	2,324	2,378	252	7,075	12,502	4,727	90	187	1,053	2,824
New Brunswick	256	4,059	9,777	13,655	995	24,642	44,215	22,797	135	297	4,378	15,098
Quebec	592	19,991	48,796	76,850	6,643	106,537	227,504	111,305	240	613	22,449	88,918
Ontario	472	9,562	23,186	47,629	4,739	61,330	147,060	77,777	293	800	10,816	55,463
Manitoba	163	1,359	3,258	5,098	489	8,806	18,231	8,865	133	255	1,527	5,983
Saskatchewan												
Alberta												
British Columbia	1,252	15,604	30,002	85,188	8,717	239,619	442,443	197,971	629	2,349	17,409	96,125
Yukon and Northwest Territories	5	5	10	16	3	52	111	65	4	15	6	65
<b>Totals</b>	<b>2,959</b>	<b>53,921</b>	<b>123,146</b>	<b>240,239</b>	<b>22,496</b>	<b>453,125</b>	<b>916,422</b>	<b>439,288</b>	<b>1,562</b>	<b>4,602</b>	<b>60,291</b>	<b>275,476</b>
<b>1964</b>												
Newfoundland	52	3,092	7,521	12,844	1,097	6,733	27,012	18,608	39	104	3,352	14,403
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	143	1,322	3,196	3,567	395	10,867	18,770	7,497	110	242	1,415	4,056
New Brunswick	252	4,141	10,030	15,125	1,164	28,057	51,527	27,618	168	421	4,520	16,861
Quebec	522	20,346	49,351	84,171	7,695	119,718	241,593	116,688	211	537	22,561	95,377
Ontario	409	9,599	23,250	50,338	5,031	64,567	150,031	77,567	283	803	10,776	57,910
Manitoba	142	1,443	3,454	5,839	476	10,258	20,712	9,635	107	238	1,628	6,835
Saskatchewan												
Alberta												
British Columbia	1,234	15,936	30,552	90,904	8,984	292,428	510,360	222,415	557	2,167	18,163	104,810
Yukon and Northwest Territories	4	3	5	8	3	38	70	30	2	8	4	30
<b>Totals</b>	<b>2,758</b>	<b>55,882</b>	<b>127,359</b>	<b>262,797</b>	<b>24,845</b>	<b>532,666</b>	<b>1,020,075</b>	<b>480,058</b>	<b>1,477</b>	<b>4,520</b>	<b>62,419</b>	<b>300,252</b>

Source: Annual reports "Logging", Dominion Bureau of Statistics.



**TABLE 6 A. Principal Statistics - Logging, 1963-65 - Concluded**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments	Logging activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1965													
Newfoundland .....	43	2,986	7,250	13,014	1,161	6,856	29,639	21,076	25	87	3,263	14,759	21,792
Prince Edward Island.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	128	1,221	2,936	3,572	406	12,481	20,399	7,627	99	264	1,320	4,105	7,807
New Brunswick .....	217	3,738	9,038	14,335	1,175	29,837	62,229	24,456	140	407	4,081	15,856	25,334
Quebec .....	476	18,675	45,304	83,740	8,461	117,807	243,876	128,591	202	690	20,803	95,256	135,661
Ontario .....	393	9,595	23,244	53,650	5,319	73,709	161,117	85,251	264	857	10,824	62,075	87,487
Manitoba .....	128	1,473	3,545	6,683	525	10,020	20,451	10,443	88	215	1,658	7,759	11,128
Saskatchewan .....													
Alberta .....													
British Columbia .....	1,167	16,299	31,243	99,336	9,460	400,464	646,766	250,770	480	2,007	18,746	116,138	257,432
Yukon and Northwest Territories	4	5	10	18	2	6	57	51	3	11	6		
Totals.....	2,556	53,992	122,571	274,350	26,508	651,180	1,184,535	528,263	1,301	4,539	60,701	315,948	546,692

Source: Annual reports "Logging", Dominion Bureau of Statistics.

**TABLE 7. Estimates of Primary Forest Production, 1961-65**

Year	Logs and bolts	Pulpwood	Fuelwood	Poles and piling <sup>1</sup>	Round mining timber	Other roundwood <sup>1</sup>
	M ft. b.m.	'000 cords		'000 cu. ft.	'000 cords	'000 cu. ft.
1961 .....	9,654,480	15,308	2,992	24,821	77	25,342
1962 .....	10,819,146	12,392	2,792	25,887	67	42,375
1963 .....	11,861,753	13,306	2,616	18,948	65	41,015
1964 .....	12,232,544	13,967	2,434	20,056	64	38,016
1965 .....	12,383,822	14,219	2,263	17,880	57	39,023
	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	thousands cubic feet					
1961 .....	98,014	10,157	96,747	193,346	914,096	494,048
1962 .....	74,649	5,514	81,907	140,627	876,043	519,414
1963 .....	89,027	6,045	86,554	198,258	913,542	535,077
1964 .....	96,800	6,072	104,640	195,503	933,096	569,767
1965 .....	98,810	6,685	106,792	195,297	935,709	567,131
	Manitoba	Saskatchewan	Alberta	British Columbia <sup>2</sup>	Yukon and Northwest Territories	Canada
	thousands cubic feet					
1961 .....	37,602	44,036	118,390	1,167,051	1,815	3,175,302
1962 .....	53,160	47,844	131,706	1,342,936	4,106	3,277,906
1963 .....	41,556	42,091	133,472	1,473,423	3,965	3,523,010
1964 .....	39,402	39,370	124,475	1,514,595	3,265	3,626,985
1965 .....	42,491	45,403	126,584	1,533,113	2,654	3,660,669

<sup>1</sup> Includes some fence posts, mine timber, poles, piling and miscellaneous roundwood.

<sup>2</sup> Source: British Columbia Forest Service.

Source: Annual reports "Logging", Dominion Bureau of Statistics.



TABLE 8. Estimates of Forest Production on Farms, by Products and by Provinces, 1963-65

Product and province	Converting factor	1963		1964		1965	
		Quantity reported or estimated	Equivalent volume in merchantable timber	Quantity reported or estimated	Equivalent volume in merchantable timber	Quantity reported or estimated	Equivalent volume in merchantable timber
		cu. ft.	M cu. ft.		M cu. ft.		M cu. ft.
Logs and bolts .....	M ft. b.m.	200	298,858	59,772	216,017	43,204	206,211
Pulpwood .....	cord	85	876,130	74,471	890,214 <sup>r</sup>	75,668 <sup>r</sup>	710,058
Fuelwood .....	"	80	1,517,110	121,368	1,504,533 <sup>r</sup>	120,362 <sup>r</sup>	869,897
Miscellaneous roundwood .....		—	23,341	...	19,118 <sup>r</sup>	...	16,004
Other products .....		—	...	...	...	...	...
<b>Totals, Canada</b> .....		—	278,932	...	258,352 <sup>r</sup>	...	187,193
Newfoundland .....			427	...	464 <sup>r</sup>	...	345
Prince Edward Island .....			3,562	...	4,083 <sup>r</sup>	...	5,151
Nova Scotia .....			22,896	...	19,903 <sup>r</sup>	...	17,726
New Brunswick .....			22,635	...	17,567 <sup>r</sup>	...	15,723
Quebec .....			119,248	...	120,885	...	76,734
Ontario .....			57,754	...	50,513	...	37,405
Manitoba .....			9,200	...	7,695	...	5,267
Saskatchewan .....			17,723	...	13,776	...	6,784
Alberta .....			7,285	...	7,831	...	4,970
British Columbia <sup>1</sup> .....			18,222	...	15,635	...	17,088

<sup>1</sup> Includes fuelwood for Yukon and Northwest Territories.

TABLE 9. Shipments of Roundwood by Province, 1963-65

Product		1963		1964		1965	
		Quantity	Value	Quantity	Value	Quantity	Value
		\$'000		\$'000		\$'000	
		Canada					
Logs and bolts.....	M ft. b.m.	8,162,969	372,368	8,745,181	435,401	9,763,524	517,553
Logs and bolts.....	M cu. ft.	162,918	34,436	188,819	40,595	227,300	52,702
Pulpwood .....	cord	14,345,851	348,678	15,220,739	371,756	15,883,600	389,504
Fuelwood .....	"	17,485	207	13,025	158	10,715	135
Poles and piling .....	M cu. ft.	10,177	7,572	9,401	6,770	9,181	7,253
Round mining timber .....	cord	29,761	754	30,509	752	19,678	397
Fence posts .....	number	2,241,855	706	2,622,665	716	2,676,552	847
Totals .....		...	764,721	...	856,148	...	968,391
		Newfoundland					
Logs and bolts.....	M ft. b.m.	3,428	144	1,968	90	1,877	92
Logs and bolts.....	M cu. ft.	-	-	-	-	-	-
Pulpwood .....	cord	870,395	22,466	933,224	24,058	989,550	26,039
Fuelwood .....	"	-	-	-	-	-	-
Poles and piling .....	M cu. ft.	-	-	-	-	50	8
Round mining timber.....	cord	-	-	586	12	1,872	10
Fence posts .....	number	-	-	-	-	-	-
Totals .....		...	22,610	...	24,160	...	26,148
		Prince Edward Island					
Logs and bolts.....	M ft. b.m.	-	-	-	-	-	-
Logs and bolts.....	M cu. ft.	-	-	-	-	-	-
Pulpwood .....	cord	-	-	-	-	-	-
Fuelwood .....	"	-	-	-	-	-	-
Poles and piling .....	M cu. ft.	-	-	-	-	-	-
Round mining timber .....	cord	-	-	-	-	-	-
Fence posts .....	number	-	-	-	-	-	-
Totals .....		-	-	-	-	-	-

TABLE 9. Shipments of Roundwood by Province, 1963-65 - Continued

Product		1963		1964		1965	
		Quantity	Value	Quantity	Value	Quantity	Value
		\$'000		\$'000		\$'000	
Nova Scotia							
Logs and bolts .....	M ft. b.m.	128,336	5,096	166,386	7,079	134,225	6,207
Logs and bolts .....	M cu. ft.	29	6	18	6	1	--
Pulpwood .....	cord	317,105	5,599	404,857	7,572	438,981	8,457
Fuelwood .....	"	1,474	13	1,593	12	1,790	22
Poles and piling .....	M cu. ft.	—	—	—	—	—	—
Round mining timber .....	cord	110	2	967	17	1,178	17
Fence posts .....	number	10,000	1	9,000	1	—	—
Totals .....		...	10,717	...	14,687	...	14,704
New Brunswick							
Logs and bolts .....	M ft. b.m.	194,401	8,071	245,949	10,713	354,157	14,251
Logs and bolts .....	M cu. ft.	136	36	721	137	225	41
Pulpwood .....	cord	1,520,586	33,360	1,697,738	36,688	1,780,838	40,794
Fuelwood .....	"	3,870	51	4,720	63	4,452	57
Poles and piling .....	M cu. ft.	355	184	461	245	407	212
Round mining timber .....	cord	1,592	31	1,006	22	563	11
Fence posts .....	number	—	—	1,500	--	10,330	2
Totals .....		...	41,733	...	47,868	...	55,368
Quebec							
Logs and bolts .....	M ft. b.m.	767,813	37,858	734,439	36,833	671,098	34,210
Logs and bolts .....	M cu. ft.	2,822	655	1,458	276	3,086	844
Pulpwood .....	cord	7,020,778	168,122	7,404,182	180,838	7,422,871	181,593
Fuelwood .....	"	5,339	61	3,141	40	1,894	22
Poles and piling .....	M cu. ft.	138	80	311	205	205	117
Round mining timber .....	cord	2,048	50	11,535	270	2,841	51
Fence posts .....	number	761,489	284	42,778	18	15,126	8
Totals .....		...	207,110	...	218,480	...	216,844
Ontario							
Logs and bolts .....	M ft. b.m.	464,227	25,370	491,670	26,037	496,401	27,001
Logs and bolts .....	M cu. ft.	10,505	3,420	11,139	3,391	16,876	5,236
Pulpwood .....	cord	3,968,346	106,806	4,104,403	108,738	4,574,961	118,704
Fuelwood .....	"	3,482	43	1,178	13	747	8
Poles and piling .....	M cu. ft.	1,152	712	1,983	1,123	847	372
Round mining timber .....	cord	18,558	477	12,336	333	8,307	184
Fence posts .....	number	93,487	44	281,582	139	164,753	71
Totals .....		...	136,872	...	139,774	...	151,577
British Columbia							
Logs and bolts .....	M ft. b.m.	6,499,830	292,237	6,991,117	350,649	8,015,426	432,804
Logs and bolts .....	M cu. ft.	149,410	30,317	175,450	36,778	205,019	46,206
Pulpwood .....	cord	28,063	476	6,762	121	6,914	153
Fuelwood .....	"	20	--	31	--	96	1
Poles and piling .....	M cu. ft.	7,315	6,307	5,843	5,030	6,685	6,314
Round mining timber .....	cord	3,266	81	1,341	33	3,803	103
Fence posts .....	number	78,661	29	44,055	14	17,944	6
Totals .....		...	329,447	...	392,625	...	485,588

TABLE 9. Shipments of Roundwood by Province, 1963 - 65 - Concluded

Product	1963		1964		1965	
	Quantity	Value	Quantity	Value	Quantity	Value
	\$'000		\$'000		\$'000	
	Yukon and Northwest Territories					
Logs and bolts ..... M ft. b.m.	—	—	—	—	—	—
Logs and bolts ..... M cu. ft.	—	—	—	—	—	—
Pulpwood ..... cord	—	—	—	—	—	—
Fuelwood ..... "	420	8	400	7	350	7
Poles and piling ..... M cu. ft.	1	1	—	—	26	9
Round mining timber..... cord	2,444	76	1,394	40	423	9
Fence posts..... number	—	—	—	—	—	—
Totals .....	...	85	...	47	...	24
	Other provinces					
Logs and bolts ..... M ft. b.m.	104,934	3,592	113,652	4,000	90,340	2,989
Logs and bolts ..... M cu. ft.	15	4	34	8	2,093	373
Pulpwood ..... cord	620,582	11,850	669,573	13,741	669,485	13,763
Fuelwood ..... "	2,880	29	1,962	23	1,386	18
Poles and piling ..... M cu. ft.	1,217	287	803	166	961	221
Round mining timber..... cord	1,743	35	1,344	25	691	12
Fence posts..... number	1,298,218	349	2,243,750	545	2,468,399	762
Totals .....	...	16,146	...	18,508	...	18,138

TABLE 10. Exports of Primary Forest Products, 1961 - 66

Year	Logs and bolts		Pulpwood		Poles and piling		Other products	Total
	Quantity	Value	Quantity	Value	Quantity	Value	Value	Value
	M ft. b.m.	\$'000	'000 rough cords	\$'000	M cu. ft.		\$'000	
1961 .....	88,762	6,198	1,151	27,157	6,597	5,616	7,021	45,992
1962 .....	59,275	4,369	1,225	28,597	8,787	6,546	8,114	47,626
1963 .....	93,392	6,359	1,114	25,903	5,501	6,007	7,071	45,340
1964 .....	67,195	5,923	1,235	28,489	4,439	5,313	6,926	46,651
1965 .....	64,467	6,262	1,352	33,827	4,285	5,185	7,064	52,338
1966 .....	116,313	9,318	1,371	32,587	5,348	6,339	6,519	54,763

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

TABLE 11. Imports of Primary Forest Products, 1961 - 66

Year	Logs and bolts		Pulpwood		Poles and piling		Other products	Total
	Quantity	Value	Quantity	Value	Quantity	Value	Value	Value
	M ft. b.m.	\$'000	'000 rough cords	\$'000	M cu. ft.		\$'000	
1961 .....	156,513	8,997	206,726	3,563	772	1,363	82	14,005
1962 .....	229,420	13,524	149,884	2,730	618	729	67	17,050
1963 .....	240,827	18,370	129,719	2,437	554	858	1,132	22,797
1964 .....	312,877	19,349	113,644	2,024	588	459	545	22,377
1965 .....	385,280	24,667	105,767	2,057	1,061	1,398	1,278	29,400
1966 .....	294,845	18,421	122,405	2,575	1,481	1,616	1,452	24,064

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

TABLE 13. Principal Statistics - Sawmills and Planing Mills (excluding Shingle Mills), Manufacturing Activity and Total Activity, 1961-65

Notes: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		\$'000					\$'000		\$'000	
1961													
Totals .....	3,467	38,636	77,237	131,780	13,190	358,479	619,515	249,928	2,239	3,902	46,688	165,100	256,057
1962													
Totals .....	3,266	40,316	85,698	146,464	15,888	381,517	699,157	303,480	2,647	5,302	47,360	178,060	310,034
1963													
Totals .....	3,094	41,475	88,362	159,262	17,218	425,931	782,628	342,306	2,293	4,656	49,438	196,490	348,934
1964													
Newfoundland .....	100	129	309	331	54	927	1,897	816	106	114	160	439	997
Prince Edward Island .....	29	14	41	40	8	90	220	123	x	x	14	40	123
Nova Scotia .....	239	1,540	3,464	3,673	449	6,924	15,762	8,466	208	323	1,795	4,502	8,595
New Brunswick .....	164	2,326	5,348	6,349	850	16,575	32,561	16,693	118	279	2,815	8,065	17,538
Quebec .....	807	8,102	18,842	24,064	2,855	62,964	116,802	53,759	671	1,321	9,110	28,546	54,885
Ontario .....	425	4,458	10,154	14,966	1,812	35,562	74,358	37,897	334	831	5,270	18,758	38,514
Manitoba .....	76	157	367	406	74	629	1,836	1,117	78	120	191	508	1,140
Saskatchewan .....	104	440	896	1,279	185	2,675	5,912	2,842	97	142	518	1,527	2,878
Alberta .....	196	1,977	4,203	5,887	1,199	12,558	26,598	13,788	151	331	2,551	8,118	14,249
British Columbia:													
Coast .....	111	11,766	24,404	61,135	3,736	199,704	310,911	113,438	20	55	13,060	70,708	113,868
Interior .....	653	12,702	25,729	55,446	7,960	142,685	267,824	122,512	334	1,000	14,793	67,802	123,077
Yukon and Northwest Territories	5	35	72	121	25	181	650	458	x	x	51	179	461
Totals .....	2,909	43,646	93,830	173,698	19,206	481,473	855,330	371,908	2,151	4,557	50,328	209,194	376,325
1965													
Newfoundland .....	87	124	300	333	59	1,387	2,154	873	96	120	159	444	1,119
Prince Edward Island .....	29	16	48	45	9	82	216	126	x	x	16	45	126
Nova Scotia .....	206	1,549	3,538	3,818	511	7,826	16,708	8,856	178	322	1,804	4,706	9,105
New Brunswick .....	134	2,204	5,142	6,357	897	18,287	34,787	16,292	94	223	2,684	8,060	17,230
Quebec .....	727	8,270	19,362	26,527	3,310	67,247	126,667	57,168	587	1,217	9,389	31,878	58,256
Ontario .....	371	4,799	10,851	16,925	2,027	37,086	79,858	40,799	281	735	5,596	20,838	41,861
Manitoba .....	68	169	415	505	75	830	2,288	1,398	71	115	204	634	1,424
Saskatchewan .....	84	367	722	1,079	189	3,052	5,374	2,585	76	118	480	1,398	2,618
Alberta .....	182	1,781	3,858	5,765	1,038	11,129	25,371	12,472	138	293	2,178	7,588	12,749
British Columbia:													
Coast .....	103	12,021	24,609	66,276	3,757	212,554	330,284	118,220	16	35	13,370	76,474	118,980
Interior .....	563	13,139	26,572	60,586	8,248	141,934	271,995	125,335	257	739	14,918	71,657	125,330
Yukon and Northwest Territories	5	38	71	131	39	146	538	362	x	x	50	199	329
Totals .....	2,559	44,477	95,489	188,346	20,159	501,359	696,240	384,484	1,828	3,961	50,848	223,921	389,127

Source: Annual reports "Sawmills and Planing Mills", Dominion Bureau of Statistics.



TABLE 13. Lumber Production and Shipments - Sawmills and Planing Mills, by Province and Species, 1964 and 1965

Province and species	1964			1965		
	Production	Shipments	Value of shipments	Production	Shipments	Value of shipments
	M ft. b.m.		\$'000	M ft. b.m.		\$'000
Newfoundland .....	16,847	21,027	1,598	13,310	18,464	1,521
Prince Edward Island .....	5,482	2,270	151	6,088	2,009	142
Nova Scotia .....	206,452	175,778	12,779	204,768	178,887	13,396
New Brunswick .....	352,427	331,935	25,031	323,883	333,266	25,559
Quebec .....	1,373,737	1,264,293	95,233	1,409,941	1,317,460	102,706
Ontario .....	753,453	690,152	61,085	792,994	748,388	65,503
Manitoba .....	22,145	22,495	1,306	32,692	27,969	1,712
Saskatchewan .....	54,982	76,264	4,786	48,292	70,296	4,369
Alberta .....	351,179	408,883	22,100	309,113	379,876	22,071
British Columbia:						
Coast .....	3,329,396	3,257,416	257,673	3,440,102	3,369,602	263,442
Interior .....	3,584,234	4,166,242	248,531	3,579,107	4,057,341	248,283
Yukon and Northwest Territories .....	9,452	7,440	597	6,584	6,533	537
<b>Canada .....</b>	<b>10,059,786</b>	<b>10,424,195</b>	<b>730,870</b>	<b>10,166,874</b>	<b>10,510,091</b>	<b>749,243</b>
Softwoods:						
Douglas Fir .....	2,175,147	2,246,785	156,816	2,128,469	2,146,302	153,563
Spruce and Balsam Fir .....	3,744,940	4,172,694	260,949	3,791,693	4,154,379	269,065
Hemlock .....	1,820,670	1,783,355	126,691	1,881,556	1,915,962	133,827
White and Red Pines .....	374,204	349,578	33,804	340,834	338,319	32,827
Cedars .....	756,064	714,122	62,637	748,011	692,497	58,746
Jack and Lodge Pole Pines .....	534,987	581,444	34,705	581,271	627,575	39,506
Other .....	170,530	156,614	11,234	209,906	189,557	13,216
<b>Sub-totals .....</b>	<b>9,576,542</b>	<b>10,004,592</b>	<b>686,837</b>	<b>9,681,740</b>	<b>10,064,591</b>	<b>700,750</b>
Hardwoods:						
Yellow Birch .....	165,271	139,483	16,643	145,281	132,602	16,788
White Birch .....	17,259	15,595	1,250	21,728	20,603	2,065
Maple .....	172,963	152,703	16,953	184,210	172,137	19,443
Poplar .....	28,703	22,293	1,191	29,390	22,598	1,257
Other .....	99,048	89,529	7,996	104,525	97,560	8,938
<b>Sub-totals .....</b>	<b>483,244</b>	<b>419,603</b>	<b>44,033</b>	<b>485,134</b>	<b>445,500</b>	<b>48,491</b>
<b>Totals, all species .....</b>	<b>10,059,786</b>	<b>10,424,195</b>	<b>730,870</b>	<b>10,166,874</b>	<b>10,510,091</b>	<b>749,243</b>

Source: Annual reports "Sawmills", "Sawmills and Planing Mills", Dominion Bureau of Statistics.



TABLE 14. Production of Softwood and Hardwood Lumber, by Province, in All Industries, 1964 and 1965

Province	1964			1965		
	Softwood	Hardwood	Total	Softwood	Hardwood	Total
M ft. b.m.						
Newfoundland .....	29,906	61	29,967 <sup>1</sup>	25,992	8	26,000 <sup>1</sup>
Prince Edward Island .....	6,073	102	6,175	6,766	121	6,887
Nova Scotia .....	222,506 <sup>r</sup>	9,553 <sup>r</sup>	232,059 <sup>1,r</sup>	228,138	10,085	238,223 <sup>1</sup>
New Brunswick .....	319,994	35,111	355,105	288,746	38,826	327,572
Quebec .....	1,167,229	248,039	1,415,268	1,213,599	235,846	1,449,445
Ontario .....	576,320	214,306	790,626	611,387	222,143	833,530
Manitoba .....	32,848	9,012	41,860 <sup>1</sup>	28,767	9,518	38,285 <sup>1</sup>
Saskatchewan .....	57,901	2,777	60,678 <sup>1</sup>	83,891	4,524	88,415 <sup>1</sup>
Alberta .....	318,637	639	319,276 <sup>1</sup>	350,316	613	350,929 <sup>1</sup>
British Columbia:						
Coast .....	3,487,405	4,686	3,492,091	3,647,087	2,398	3,649,485
Interior .....	3,601,124	2,067	3,603,191	3,799,200	800	3,800,000 <sup>2</sup>
Totals .....	7,088,529	6,753	7,095,282	7,446,287	3,198	7,449,485
Yukon .....	9,407	—	9,407	6,584	—	6,584
Totals .....	9,829,350 <sup>r</sup>	526,353 <sup>r</sup>	10,355,703 <sup>r</sup>	10,290,473	524,882	10,815,355

<sup>1</sup> Source: Provinces (fiscal year).

<sup>r</sup> Estimated.

TABLE 15. Exports of Lumber, 1961-1966

Year	Douglas Fir	Spruce	Hemlock	Pine	Other softwood <sup>1</sup>	Birch and Maple	Other hardwood	Total
Thousands of feet board measure								
1961 .....	1,616,519	1,493,320	1,037,303	196,123	480,252	91,186	8,908	4,923,611
1962 .....	1,544,603	1,816,089	1,174,612	250,011	530,031	117,820	13,306	5,446,472
1963 .....	1,613,956	2,042,085	1,537,889	309,676	590,970	114,752	11,632	6,220,960
1964 .....	1,551,839	2,252,355	1,525,413	384,076	610,463	118,965	11,050	6,454,161
1965 .....	1,364,469	2,281,179	1,679,882	388,569	603,531	137,778	17,807	6,473,215
1966 .....	1,138,758	2,166,058	1,593,116	396,866	623,135	178,672	37,016	6,133,621
Thousands of dollars								
1961 .....	107,526	100,265	72,718	17,195	36,803	17,273	1,027	352,812
1962 .....	103,859	121,519	85,077	19,590	41,365	21,554	1,527	394,491
1963 .....	111,091	136,210	109,788	22,727	47,040	20,908	1,392	449,156
1964 .....	110,199	151,573	109,130	27,468	51,442	22,181	1,392	473,305
1965 .....	98,889	158,463	121,747	27,955	50,914	25,535	2,380	485,883
1966 .....	87,243	154,717	116,129	29,338	52,586	31,197	6,824	478,034

<sup>1</sup> Contains some flooring.

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

**TABLE 16. Principal Statistics - Shingle Mills, Manufacturing Activity and Total Activity, 1961 - 65**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				Total value added
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies used	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000	\$'000						\$'000	\$'000		
1961													
Totals .....	52	1,260	2,319	5,584	255	8,183	16,267	7,871	30	85	1,354	6,077	7,966
1962													
Totals .....	57	1,282	2,451	6,068	279	9,341	18,459	8,736	31	84	1,378	6,661	8,873
1963													
Totals .....	73	1,577	2,994	7,736	311	12,238	25,625	13,250	47	138	1,689	8,471	13,472
1964													
New Brunswick.....	2	33	69	70	8	46	193	140	10	22	33	70	140
Quebec.....	7												
British Columbia .....	65	1,343	2,260	7,271	314	14,053	24,613	10,426	37	103	1,448	7,988	10,576
Totals .....	74	1,376	2,689	7,341	322	14,100	24,806	10,567	47	126	1,481	8,057	10,717
1965													
New Brunswick.....	2	29	64	66	7	58	189	129	9	23	30	67	129
Quebec.....	6												
British Columbia .....	56	1,393	2,729	7,766	325	15,073	25,308	10,095	22	59	1,497	8,487	10,430
Totals .....	64	1,422	2,793	7,832	332	15,131	25,497	10,224	31	83	1,527	8,554	10,559

Source: Annual reports "Sawmills and Planing Mills", Dominion Bureau of Statistics.

**TABLE 17. Shingle Mills - Shipments of Shingles and Shakes, 1964 - 65**

Province	1964		1965	
	'000 squares	\$'000	'000 squares	\$'000
New Brunswick .....	20	161	20	153
Quebec .....				
British Columbia .....	1,894	24,302	1,932	25,089
<b>Totals .....</b>	<b>1,914</b>	<b>24,463</b>	<b>1,952</b>	<b>25,242</b>

Source: Annual reports "Sawmills and Planing Mills", Dominion Bureau of Statistics.

**TABLE 18. Shipments of Shingles and Shakes - All Industries, 1964 - 65**

Province	1964		1965	
	'000 squares	\$'000	'000 squares	\$'000
New Brunswick.....	5	34	7	56
Quebec.....	64	484	73	623
British Columbia .....	2,596	33,393	2,532	32,991
Other provinces .....	1	5	--	4
<b>Totals .....</b>	<b>2,666</b>	<b>33,916</b>	<b>2,612</b>	<b>33,673</b>

Source: Annual reports "Sawmills and Planing Mills", Dominion Bureau of Statistics.

TABLE 19. Exports of Shingles and Shakes, 1961 - 66

Year	Western Red Cedar				Other shingles—Wood	
	Shingles		Shakes		Shingles	
	'000 squares	\$'000	'000 squares	\$'000	'000 squares	\$'000
1961 .....	1,593	14,890	425	5,555	40	335
1962 .....	1,705	17,158	489	6,484	62	530
1963 .....	1,872	20,777	629	8,879	64	661
1964 .....	1,855	21,849	637	9,412	66	685
1965 .....	1,861	21,342	573	7,798	94	923
1966 .....	1,686	18,678	547	7,632	108	1,071

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

TABLE 20. Principal Statistics — Veneer and Plywood Mills, Manufacturing Activity and Total Activity, 1961 - 65  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals .....	75	10,007	20,792	36,201	2,929	79,158	143,719	60,285	3	10	11,181	42,729	61,325
1962													
Totals .....	79	10,821	22,965	40,168	2,945	90,544	166,043	74,161	5	16	12,126	47,155	74,640
1963													
Totals .....	81	11,722	24,726	44,888	3,204	105,172	190,932	85,316	4	15	12,984	52,304	86,532
1964													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	24	2,651	6,233	7,825	522	16,928	33,759	16,589	3	8	2,929	9,440	17,674
Ontario .....	27	2,569	5,472	8,416	479	18,334	34,160	16,071	—	—	2,875	10,136	16,166
Manitoba .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	4	611	1,339	2,121	244	3,985	8,448	4,249	—	—	638	2,264	4,279
British Columbia .....	19	6,267	12,477	30,678	1,999	72,033	127,795	55,631	—	—	6,972	35,246	55,692
Totals .....	80	12,399	26,161	49,912	3,334	112,597	206,534	93,494	3	8	13,740	58,077	94,766
1965													
Newfoundland .....	1	x	x	x	x	x	x	x	—	—	x	x	x
New Brunswick .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	24	2,992	7,257	9,234	630	21,278	39,813	18,408	x	x	3,294	11,114	19,603
Ontario .....	26	2,316	5,140	8,182	498	18,413	34,048	15,821	x	x	2,678	10,256	16,046
Manitoba .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Alberta .....	4	575	1,317	2,269	234	5,052	8,894	3,782	—	—	600	2,403	3,776
British Columbia .....	23	6,689	13,189	34,728	2,313	74,236	137,004	62,058	—	—	7,422	39,961	61,593
Totals .....	83	12,826	27,455	55,295	3,789	120,330	222,438	101,155	4	9	14,265	64,698	102,098

Source: Annual reports "Veneer and Plywood Mills", Dominion Bureau of Statistics.

TABLE 21. Veneer and Plywood Mills - Shipments of Veneer and Plywood, 1961-65

Year	Veneer <sup>1</sup>		Plywood <sup>2</sup>	
	Softwood	Hardwood	Softwood	Hardwood
Thousand square feet				
1961.....	381,904	716,235	1,221,290	274,520
1962.....	502,231	935,309	1,304,747	322,441
1963.....	633,000	1,010,747	1,388,993	364,090
1964.....	437,373	1,018,582	1,475,197	372,008
1965.....	816,388	1,132,405	1,555,975	385,399
Thousands of dollars <sup>3</sup>				
1961.....	3,204	20,478	79,037	26,579
1962.....	2,870	25,108	89,644	34,020
1963.....	4,415	26,808	103,558	37,432
1964.....	4,548	28,051	115,300	38,089
1965.....	8,184	31,897	120,784	37,817

<sup>1</sup> Quantity of all thicknesses.

<sup>2</sup> Quantity on the basis of  $\frac{1}{4}$ " sanded both sides for hardwoods and  $\frac{1}{4}$ " unsanded for softwoods.

<sup>3</sup> Value reported for softwood veneer includes some shipments at transfer prices.

Source: Annual reports "Veneer and Plywood Mills", Dominion Bureau of Statistics.

TABLE 22. Veneer and Plywood - All Industries, Shipments and Exports, 1961-66

Year	Shipments			Exports			
	Veneer	Plywood <sup>1</sup>		Veneer <sup>2</sup>		Plywood <sup>3</sup>	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	M sq. ft.	M sq. ft. - $\frac{1}{4}$ " basis	M sq. ft. - $\frac{1}{4}$ " basis	M sq. ft.		M sq. ft. - $\frac{1}{4}$ " basis	
1961.....	1,102,869	1,905,873		42,901	526,359	181,420	25,237
1962.....	1,437,540	2,135,157		42,074	652,548	271,278	36,932
1963.....	1,661,047	1,433,108	364,090	62,817	719,380	280,444	48,928
1964.....	1,488,263	1,535,214	372,008	28,467	830,917	455,421	48,362
1965.....	1,965,932	1,619,525	385,399	82,037	897,417	447,964	47,339
1966.....	...	...	...	192,638	836,996	509,884	49,504
Thousands of dollars							
1961.....	23,844	106,259		608	17,546	11,902	4,135
1962.....	27,980	127,278		625	20,288	17,113	6,185
1963.....	31,621	106,231	37,432	1,025	23,582	20,225	8,212
1964.....	33,424	119,177	38,090	363	28,448	29,385	8,465
1965.....	40,467	125,111	37,817	865	30,715	29,855	7,656
1966.....	...	...	...	1,954	29,807	33,257	8,261

<sup>1</sup> Plywood - 1961 and 1962 quantities on the basis of  $\frac{1}{4}$ " sanded both sides. From 1963, softwood basis  $\frac{1}{4}$ " unsanded, hardwood basis  $\frac{1}{4}$ " sanded on both sides.

<sup>2</sup> Veneer - All thicknesses.

<sup>3</sup> Quantities of the basis of  $\frac{1}{4}$ " sanded both sides.

Source: Annual reports "Veneer and Plywood Mills", "Trade of Canada", Dominion Bureau of Statistics.



**TABLE 23. Principal Statistics of Wood Industries,<sup>1</sup> 1961-65**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Establishment	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value Added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000							\$'000			\$'000
<b>1961</b>													
<b>Totals .....</b>	<b>5,243</b>	<b>67,532</b>	<b>138,132</b>	<b>226,217</b>	<b>20,460</b>	<b>581,239</b>	<b>1,036,179</b>	<b>436,501</b>	<b>3,344</b>	<b>7,114</b>	<b>82,085</b>	<b>292,700</b>	<b>451,583</b>
<b>1962</b>													
<b>Totals .....</b>	<b>5,017</b>	<b>70,279</b>	<b>150,220</b>	<b>247,957</b>	<b>23,626</b>	<b>624,133</b>	<b>1,154,377</b>	<b>510,470</b>	<b>3,737</b>	<b>8,484</b>	<b>83,466</b>	<b>311,975</b>	<b>594,794</b>
<b>1963</b>													
<b>Totals .....</b>	<b>4,779</b>	<b>72,836</b>	<b>155,521</b>	<b>269,759</b>	<b>25,176</b>	<b>685,784</b>	<b>1,276,848</b>	<b>571,917</b>	<b>3,315</b>	<b>7,802</b>	<b>86,888</b>	<b>340,748</b>	<b>586,681</b>
<b>1964</b>													
Newfoundland .....	127	355	764	946	172	2,155	4,016	1,559	130	166	412	1,169	1,796
Prince Edward Island .....	34	56	137	149	17	248	606	341	x	x	64	193	360
Nova Scotia .....	299	2,029	4,517	4,901	579	10,353	22,071	11,242	255	452	2,390	6,144	11,768
New Brunswick .....	227	2,907	6,655	7,966	1,060	20,977	40,956	20,558	161	377	3,496	10,071	21,536
Quebec .....	1,452	17,055	39,478	50,979	4,732	129,062	242,692	113,001	1,128	2,653	19,674	64,320	116,969
Ontario .....	863	14,069	31,337	48,166	3,926	111,461	221,040	108,884	588	1,719	17,001	63,365	111,575
Manitoba .....	127	968	2,188	2,932	286	6,191	12,767	6,397	112	224	1,187	3,947	6,866
Saskatchewan .....	132	898	1,862	2,931	392	6,210	13,184	6,410	103	163	1,165	4,064	7,237
Alberta .....	297	3,675	7,878	12,089	1,771	28,234	56,578	27,662	198	482	4,541	15,778	28,530
British Columbia .....	1,031	34,231	69,441	163,915	14,790	456,028	781,349	324,630	452	1,371	39,426	197,776	327,640
Yukon and Northwest Territories	5	35	72	121	25	181	650	458	x	x	51	179	461
<b>Totals .....</b>	<b>4,594</b>	<b>76,278</b>	<b>164,329</b>	<b>295,095</b>	<b>27,749</b>	<b>771,101</b>	<b>1,395,911</b>	<b>621,141</b>	<b>3,165</b>	<b>7,658</b>	<b>89,407</b>	<b>367,005</b>	<b>634,739</b>
<b>1965</b>													
Newfoundland .....	111	268	598	787	178	2,412	4,147	1,709	118	161	331	1,025	2,013
Prince Edward Island .....	34	58	143	163	18	250	606	340	x	x	66	210	355
Nova Scotia .....	262	2,050	4,618	5,163	629	11,139	23,089	11,849	219	440	2,390	6,406	12,393
New Brunswick .....	191	2,771	6,457	8,099	1,137	22,957	43,122	19,918	135	325	3,356	10,254	21,144
Quebec .....	1,353	17,834	41,803	56,736	5,484	139,849	265,586	122,105	1,000	2,453	20,680	71,798	125,646
Ontario .....	817	14,584	32,535	52,986	4,346	119,576	239,231	117,918	517	1,609	17,671	70,023	122,162
Manitoba .....	117	946	2,174	3,103	330	6,864	14,409	7,220	101	212	1,150	4,130	7,680
Saskatchewan .....	112	904	1,777	2,991	406	6,933	13,334	6,476	83	138	1,198	4,269	7,276
Alberta .....	273	3,479	7,601	12,457	1,601	30,197	59,166	26,784	175	418	4,197	16,133	27,452
British Columbia .....	931	35,457	71,526	179,616	15,396	477,852	824,372	340,493	359	1,070	40,499	214,486	342,442
Yukon and Northwest Territories	5	38	71	131	39	146	538	362	x	x	50	199	329
<b>Totals .....</b>	<b>4,206</b>	<b>78,389</b>	<b>169,301</b>	<b>322,232</b>	<b>29,564</b>	<b>818,177</b>	<b>1,487,600</b>	<b>655,177</b>	<b>2,746</b>	<b>6,881</b>	<b>91,588</b>	<b>398,934</b>	<b>668,894</b>

<sup>1</sup> Wood Industries includes: Sawmill and Planing Mills, Shingle Mills, Veneer and Plywood Mills, Sash, Door and Other Millwork, Hardwood Flooring, Wooden Box Factories, Coffin and Casket industry and Miscellaneous Wood Industries.



**TABLE 24. Principal Statistics - Pulp and Paper Mills, Manufacturing Activity and Total Activity, 1961-65**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000		\$'000					\$'000		\$'000	
1961													
Totals .....	125	53,428	116,141	271,234	117,084	680,168	1,632,834	840,647	x	x	63,789	338,968	847,834
1962													
Totals .....	125	53,745	117,783	281,858	122,427	716,163	1,716,300	880,260	x	x	64,599	354,199	886,111
1963													
Totals .....	126	53,982	118,692	290,107	126,126	750,188	1,793,231	914,258	x	x	65,040	364,513	922,431
1964													
Newfoundland .....	2	2,497	5,728	14,860	5,957	30,200	75,475	39,115	—	—	3,015	19,192	39,513
Nova Scotia .....	4	1,333	2,994	6,159	2,536	18,132	40,814	20,351	—	—	1,688	8,388	20,312
New Brunswick .....	9	3,789	8,101	19,598	10,619	62,348	127,099	54,278	—	—	4,342	23,203	56,613
Quebec .....	56	22,376	51,462	124,918	56,313	312,062	734,510	366,045	x	x	26,867	155,067	368,394
Ontario .....	39	17,162	37,501	93,559	38,516	242,716	560,224	279,137	—	—	20,637	117,349	282,383
Manitoba .....	3	963	2,101	5,209	3,310	20,910	51,182	26,725	—	—	1,239	6,919	26,720
Saskatchewan .....	1												
Alberta .....	3												
British Columbia .....	14	8,309	17,400	51,669	21,210	160,038	394,810	217,137	—	—	9,941	64,018	217,455
Totals .....	131	56,429	125,288	315,973	138,461	846,406	1,984,114	1,002,787	x	x	67,729	394,136	1,011,391
1965													
Newfoundland .....	2	2,521	5,630	15,525	5,923	30,819	74,115	37,680	—	—	2,970	19,394	37,802
Nova Scotia .....	4	1,327	2,940	6,462	3,231	18,259	40,304	18,477	—	—	1,682	8,790	18,412
New Brunswick .....	10	4,008	8,944	22,613	13,684	72,375	141,082	55,094	—	—	4,671	26,917	56,531
Quebec .....	57	22,842	51,836	132,206	60,525	336,644	775,929	381,112	—	—	27,455	163,735	383,898
Ontario .....	37	17,365	37,778	97,958	39,490	249,045	574,647	285,844	—	—	21,038	124,087	289,938
Manitoba .....	3	969	2,054	5,379	3,312	21,443	52,041	27,499	—	—	1,254	7,150	27,423
Saskatchewan .....	1												
Alberta .....	3												
British Columbia .....	15	9,042	18,824	59,218	25,073	195,820	446,307	227,826	—	—	10,827	73,660	228,395
Totals .....	132	58,074	128,006	339,363	151,237	924,406	2,104,425	1,033,532	—	—	69,897	423,732	1,042,399

Source: Annual reports "Pulp and Paper Mills", Dominion Bureau of Statistics.

TABLE 25. Wood Pulp Production - Shipments and Value of Shipments, by Kind and by Province, 1964 and 1965

Kind	1964			1965		
	Production	Shipments	Value of shipments	Production	Shipments	Value of shipments
	'000 tons		\$'000	'000 tons		\$'000
Groundwood .....	6,442	321	21,968	6,989	331	22,421
Sulphite:						
Bleached .....	958	797	99,642	900	789	100,442
Unbleached .....	1,914	343	36,030	2,024	348	36,995
Sulphate:						
Bleached and semi-bleached .....	2,447	2,002	266,673	2,677	2,260	308,723
Unbleached .....	974	401	39,392	1,228	450	45,210
Screenings .....	83	27	666	85	24	622
All other pulp <sup>1</sup> .....	925	519	84,133	670	449	77,825
<b>Totals .....</b>	<b>13,742</b>	<b>4,412</b>	<b>548,505</b>	<b>14,573</b>	<b>4,650</b>	<b>592,238</b>
Quebec .....	5,204	979	114,166	5,450	986	118,301
Ontario .....	3,317	935	121,195	3,357	934	124,588
British Columbia .....	2,827	1,573	202,951	3,275	1,789	231,182
Other provinces .....	2,393	925	110,193	2,492	941	118,168

<sup>1</sup> Includes dissolving and special Alpha - Sulphite and Sulphate.

Source: Annual reports "Pulp and Paper Mills", Dominion Bureau of Statistics.

TABLE 26. Basic Papers and Paperboards - Production by Kind, 1961 - 65

Year	Newsprint	Book and writing	Wrapping	Paper-board	All other	Total
	'000 tons					
1961 .....	6,718	420	327	1,066	238	8,769
1962 .....	6,663	440	333	1,178	265	8,879
1963 .....	6,657	465	341	1,299	297	9,059
1964 .....	7,380	495	346	1,425	297	9,944
1965 .....	7,827	534	365	1,553	288	10,567

Source: Annual reports "Pulp and Paper Mills", Dominion Bureau of Statistics.

TABLE 27. Basic Papers and Paperboards - Shipments by Kind, 1961 - 65

Year	Newsprint	Book and writing	Wrapping	Paper-board	All other	Total
	Thousands of tons					
1961 .....	6,675	417	309	1,017	140	8,558
1962 .....	6,648	434	323	1,092	164	8,661
1963 .....	6,639	460	334	1,214	179	8,825
1964 .....	7,378	491	342	1,297	182	9,690
1965 .....	7,841	535	360	1,421	169	10,327
	Thousands of dollars					
1961 .....	804,641	112,283	66,781	149,768	24,132	1,157,605
1962 .....	819,079	119,405	69,891	156,995	25,128	1,190,498
1963 .....	809,248	126,650	72,458	175,183	27,375	1,210,914
1964 .....	887,612	138,157	76,432	187,772	29,035	1,319,010
1965 .....	927,832	150,288	80,240	202,175	29,373	1,389,910

Source: Annual reports "Pulp and Paper Mills", Dominion Bureau of Statistics.

TABLE 28. Exports of Wood Pulp, 1961-66

Year	Ground-wood	Sulphite		Sulphate		Screenings	All other pulp	Total
		Bleached	Unbleached	Bleached and semi-bleached	Unbleached			
	Thousands of tons							
1961 .....	236	444	140	1,221	413	11	353	2,868
1962 .....	260	501	204	1,331	350	9	389	3,044
1963 .....	248	568	219	1,527	356	9	413	3,340
1964 .....	286	627	258	1,697	321	7	440	3,636
1965 .....	313	628	263	1,878	367	5	398	3,852
1966 .....	254	605	246	2,220	394	11	365	4,096
	Thousands of dollars							
1961 .....	15,982	55,510	21,153	156,989	38,833	320	57,874	346,661
1962 .....	17,698	61,702	22,456	168,736	33,286	283	65,742	369,902
1963 .....	16,833	67,904	22,956	193,464	34,201	235	69,699	405,292
1964 .....	18,528	79,831	26,959	226,872	32,289	166	76,209	460,854
1965 .....	20,743	81,977	27,924	254,065	37,348	96	71,349	493,501
1966 .....	17,260	78,989	24,974	293,772	39,471	563	65,038	520,067

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

TABLE 29. Exports of Paper, 1961-66

Year	Newsprint	Book and writing paper	Wrapping paper	Paper-board	Miscellaneous paper	Other paper products	Total
Thousands of tons							
1961 .....	6,253	64	43	130	78	<sup>1</sup>	6,568
1962 .....	6,148	70	36	155	111	<sup>1</sup>	6,520
1963 .....	6,211	78	31	203	132	<sup>1</sup>	6,655
1964 .....	6,816	107	32	221	162	<sup>1</sup>	7,338
1965 .....	7,190	130	29	245	161	<sup>1</sup>	7,755
1966 .....	7,821	171	47	297	191	<sup>1</sup>	8,527
Thousands of dollars							
1961 .....	761,313	12,879	6,464	14,652	6,369	3,221	804,898
1962 .....	753,060	14,012	5,712	17,809	9,725	3,925	804,243
1963 .....	759,990	15,578	5,312	23,369	12,555	4,034	820,830
1964 .....	834,646	21,072	5,708	25,291	17,701	4,653	909,071
1965 .....	869,586	24,750	5,348	27,603	16,370	4,942	948,599
1966 .....	968,224	32,932	8,182	35,311	20,353	3,037	1,068,039

<sup>1</sup> These items not recorded by weight.

Source: Annual reports "Trade of Canada", Dominion Bureau of Statistics.

**TABLE 30. Principal Statistics, Paper and Allied Industries, <sup>1</sup> 1961-65**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'000
1961													
Totals .....	567	76,058	164,212	352,948	122,271	1,020,320	2,203,517	1,070,299	49	211	98,292	493,444	1,082,526
1962													
Totals .....	580	77,141	168,182	369,715	127,953	1,080,364	2,333,578	1,130,632	58	267	100,075	518,784	1,146,972
1963													
Totals .....	591	77,719	169,733	383,217	132,166	1,140,388	2,452,437	1,181,141	54	231	101,556	541,195	1,193,397
1964													
Newfoundland .....	3	4,154	9,400	22,027	8,698	51,789	123,225	62,716	—	—	5,112	29,032	63,070
Prince Edward Island .....	1												
Nova Scotia .....	9												
New Brunswick .....	19	4,038	8,673	20,425	10,717	66,878	134,128	56,719	x	x	4,838	25,738	58,988
Quebec .....	209	30,377	68,755	155,178	58,166	452,275	958,983	450,365	26	87	39,433	216,487	454,642
Ontario .....	267	30,751	67,085	152,182	42,054	468,542	950,226	441,858	26	138	40,605	217,385	449,664
Manitoba .....	25	1,370	2,962	5,696	1,965	23,974	50,972	25,281	—	—	1,778	8,074	25,501
Saskatchewan .....	6	158	344	638	177	2,102	3,969	1,636	x	x	195	834	1,612
Alberta .....	20	872	1,908	4,347	1,624	23,334	45,056	20,074	—	—	1,227	6,625	20,970
British Columbia .....	46	9,677	20,184	58,097	21,597	185,906	440,786	237,440	x	x	13,121	84,181	239,229
Totals .....	605	81,397	179,309	418,590	144,998	1,274,800	2,707,345	1,296,089	58	270	106,309	588,358	1,313,675
1965													
Newfoundland .....	3	4,205	9,339	23,196	9,377	52,924	121,957	59,609	—	—	5,113	29,895	59,681
Prince Edward Island .....	1												
Nova Scotia .....	9												
New Brunswick .....	19	4,255	9,489	23,477	13,770	77,036	148,321	57,426	—	—	5,166	29,517	58,819
Quebec .....	207	30,870	69,201	163,663	62,484	485,444	1,019,132	474,677	19	81	40,483	229,398	479,536
Ontario .....	265	31,795	69,244	162,721	43,441	496,224	997,993	461,429	22	131	42,020	232,973	470,322
Manitoba .....	24	1,360	2,867	5,958	2,009	23,408	49,621	24,256	—	—	1,761	8,278	24,574
Saskatchewan .....	6	170	348	674	160	2,037	3,810	1,690	x	x	206	883	1,672
Alberta .....	20	892	1,948	4,614	1,622	25,009	47,427	21,009	—	—	1,255	6,973	21,759
British Columbia .....	47	10,447	21,636	66,131	25,477	223,429	493,734	247,329	x	x	14,176	96,509	248,254
Totals .....	601	83,994	184,072	450,434	158,338	1,385,512	2,881,996	1,347,426	47	259	110,180	634,425	1,364,618

<sup>1</sup> Paper and Allied industries includes: Pulp and Paper, Asphalt Roofing, Folding Cartons and Set up Boxes, Corrugated Boxes, Paper and Plastic Bags, Miscellaneous Paper Converters.



## REVISIONS TO THE LOGGING STATISTICS

During the past few years, the Manufacturing and Primary Industries Division of DBS has implemented the revised Standard Industrial Classification and the new establishment definition in connection with the manufacturing industries of Canada. Periodic reports concerning this project have been published in the Canadian Statistical Review, in particular, the May 1961 issue "The Standard Industrial Classification", the July 1961 issue "Forthcoming Changes in the Census of Industry", and the August 1964 issue "The Revised Standard Industrial Classification and the Effect of Its Implementation Upon Tables in the Canadian Review".

This project has now been completed with statistics for the period 1957 and following years published according to these concepts for the manufacturing activities of manufacturing establishments. In addition, the statistics for 1961 and following years also reflect the inclusion of the non-manufacturing activities of manufacturing establishments, i.e., the total activity concept.

The Manufacturing and Primary Industries Division now has implemented identical concepts for Division 2 (Major Group 1 - Logging) of the revised Standard Industrial Classification but, unlike for Division 5 (Manufacturing) the revised data are available back to 1963 only. The 1965 logging publication includes the statistics on both the old and new bases for 1963 and 1964 and on the new basis only for 1965 thus providing for a two year linking period.

As there is a considerable difference between the series presented on the old basis and that compiled on the new basis the following explanation is provided in respect of the nature of these differences and, where possible, the provision of quantitative measures that will allow reconciliation of the two series of statistics during the period of overlap.

### Estimates of Total Production

These will be continued and will be presented in conjunction with the logging statistics on the new basis. The estimates are based on the following sources:

1. Annual Crownland production data (Provincial and Federal).
2. The Decennial and Quinquennial Censuses of Agriculture. These provide data on farm woodlot production. Estimates for intercensal years are based on information collected with the Annual June Crop Survey, conducted by Agriculture Division of the Dominion Bureau of Statistics.
3. Annual Private Land Production Surveys. These consist of a sample survey of small land holdings and a Census of large land holdings. Such

surveys covering the fiscal year 1965-66 have been conducted in Nova Scotia, New Brunswick and Manitoba as joint DBS - Provincial projects.

4. Other Provincial surveys pertaining to production from private lands, where available.
5. Data on the production of pulpwood for domestic consumption, supplied monthly by the pulp and paper mills.
6. Wood consumption data in conjunction with import and export statistics.

Some of these sources of information overlap and some gaps exist which necessitates the use of estimation to a certain extent. For this reason the end-result is presented as an "estimate" of the total production.

### Estimates of Value of Total Production

These estimates have been discontinued, beginning with 1965. They were based on the estimates of total production and values of deliveries reported by logging establishments (which are mixtures of selling values and inter company transfer values), market values and estimated values of the farm woodlot production. DBS is of the opinion that the validity of the resulting gross value of production estimates is open to question.

### Other Elements of Principal Statistics (Old basis)

These estimates have, of course, also been discontinued, beginning with 1965. They were based on provincial cost-ratios derived from selected returns received from logging establishments which were applied to the estimated total production and the estimates of gross value of production. A bias was introduced by the fact that in the calculation of these ratios the large logging operations, which are - in general - better reporters, were relatively better represented than the smaller operations which have different operational characteristics.

Another difficulty was caused by the fact that many logging operations use the services of independent logging contractors for some phases of their operations. This made it difficult to avoid omissions and duplications in the reports used for establishing the required ratios. The validity of the resulting estimates of "cost of supplies" and "net value of production" is, of course, also affected by the difficulties in establishing the gross value for production, mentioned in the previous paragraph.

### Logging Industry Statistics - (New basis) (Beginning 1965)

With the implementation of the new concepts to the statistics of the logging industry the "gross value of production" and the "net value of pro-



duction" have been replaced by the "value of shipments of the logging industry" and the "value added by logging" (certain elements included in the "net value of production" are not included in the "value added by logging" but only in the "total value added"). However, for various reasons that will be discussed in the following, considerable differences occur between the "gross value of production" and the "net value of production" (old basis) and the "value of shipments" and "value added" (new basis).

#### **Gross Value of Production (Old basis) Versus Value of Shipments (New basis)**

Table 6 shows the estimated gross value of production while Table 6A shows the value of shipments of the logging industry.

It has been noted already that the validity of the estimates of gross value of production is open to question. In addition it is to be noted that the gross value of production (old basis) includes the estimated value of considerable quantities of wood that are not included in the value of shipments of the logging industry (new basis). The reason for this lies in the fact that large quantities of wood are produced in operations that do not qualify as "establishments" (accounting units) belonging to the "logging industry" as defined in the revised Standard Industrial Classification. Thus the "logging industry" does not include:

1. Logging operations conducted by sawmill establishments (not maintaining separate records for their logging operations).
2. Farm woodlot operations.
3. Any logging operations producing less than 60 M cu. ft. per annum. These have been excluded as it is doubtful that many of these very small operations would qualify as "logging establishments" (i.e. maintaining separate accounting records).

Another reason for expecting lower values in the "value of shipments" lies in the fact that the coverage of the "logging industry" is not complete. Certain elements of the logging industry are rather elusive and have, so far, escaped the Annual Census of Logging. This gap is not filled by estimation. Active co-operation of the provincial agencies, interested in this field, is sought in an effort to fill the gap in so far as this is practical.

On the other hand the value of shipments of the logging industry includes elements of duplication that were not present in the gross value of production. Such duplication occurs when reporting logging establishments purchase wood from other reporting logging establishments. This happens on a large scale.

The net effect of these divergent influences appears to be that the estimated gross value of production in 1963 and 1964 worked out to approximately the same level as the value of shipments of the logging industry.

#### **Net Value of Production (Old basis) Versus Value Added (New basis)**

As explained in the previous paragraph the statistics of the logging industry (new basis) do not include all of the total logging activity. Unlike the value of shipments "value added" is free of duplication and "value added" of the logging industry works out considerably lower than the "estimated net value of production" on the old basis. The difference is further increased by the fact that the "net value of production" includes stumpage and royalty while the "value added" does not include these items because, in the Census of Logging (new basis) they have been treated as material costs.

#### **Reconciliation of Statistics on the Old and on the New Basis**

For purposes of reconciliation of the statistics on the old basis and the new basis an attempt has been made to allocate the estimated total production (quantity) and the estimated "net value of production" to four categories, i.e. the Logging Industry, the Sawmill Industry, Farm Woodlot and "Other". The results are given in Tables A, B and C immediately following these notes. It is to be noted that the percentage given in these tables are approximations only. The previously discussed difficulties in arriving at estimates of total production and, particularly, of gross and net values of total production, make it impossible to arrive at a reconciliation in detail with a high degree of accuracy.

It has not been possible to distribute the "net value of production" in British Columbia over the four categories, mentioned in the previous paragraph. However, considering Table A one would expect that the sum of the total value added of the logging industry in 1964 (\$231,113,000) and the reported stumpage and royalties (\$39,504,000) would amount to approximately 93 per cent of the estimated net value of production (\$405,036,000). However, this calculation leaves a gap of some \$100,000,000. While the uncertainties, outlined in the foregoing, indicate that this is not a very definite figure there are very definite reasons for the existence of a gap. The more important reasons are the following:

1. The differences in value due to location are considerable. This poses problems of weighting in the course of estimating the "gross value of production" from which the "net value of production" is derived. This difficulty is compounded by the fact that, at the logging stage, veneer logs, sawlogs and pulp logs are not identified while considerable value differences exist between the different grades of logs.
2. Some logging establishments are valuing deliveries at inter company transfer prices which are considerably lower than market prices. This procedure is accepted provided that the receiving manufacturing establishments value the wood on the same basis. (Some reporting errors have been made in this respect.) However, such reporting procedures have the effect of

lowering the value added associated with the logging industry while increasing the value added associated with the manufacturing industries (Veneer and Plywood Industry, Sawmill Industry, Pulp and Paper Industry, etc.).

3. Some stumpage and royalty payments do not appear in the logging statistics because some license holders do not conduct any logging operations themselves but operate through

contractors. Such licence holders are not subject to the Census of Logging and consequently their stumpage and royalty payments are not included in the logging statistics.

4. Because DBS lists are not complete for this volatile industry, some contractors engaged in operations such as yarding, trucking, etc. are not yet included in the survey. As a consequence their operations and the associated value added are not included in the logging statistics.

**TABLE A. Approximate Distribution of Estimated Total Production (Quantity), 1964**  
(Expressed in per cent of total production)

	Logging industry	Sawmill industry	Farm woodlots	Other
Newfoundland .....	76	<sup>1</sup>	<sup>1</sup>	23
Prince Edward Island .....	—	—	67	33
Nova Scotia .....	35	4	20	41
New Brunswick .....	69	3	9	19
Quebec .....	63	1	13	22
Ontario .....	61	1	9	29
Manitoba .....	33	2	20	45
Saskatchewan .....	12	23	35	30
Alberta .....	42	15	6	37
British Columbia .....	93	4	1	2

<sup>1</sup> 0.5 per cent or less.

**TABLE B. Types of Wood Included in the Category "Other" of Table A**

Province	Sawlogs	Pulpwood	Fuelwood	Other products
	per cent			
Newfoundland .....	27	1	69	3
Prince Edward Island .....	27	46	26	1
Nova Scotia .....	37	45	14	3
New Brunswick .....	57	15	20	8
Quebec .....	63	21	12	3
Ontario .....	45	45	7	2
Manitoba .....	32	50	13	4
Saskatchewan .....	40	5	28	26
Alberta .....	78	5	5	12
British Columbia .....	59 <sup>1</sup>	...	3	38

<sup>1</sup> Includes pulpwood.

**TABLE C. Approximate Distribution of Estimated "Net Value of Production", 1964**

	Logging industry	Sawmill industry	Farm woodlots	Other
Newfoundland .....	85	<sup>1</sup>	<sup>1</sup>	14
Prince Edward Island .....	—	—	58	42
Nova Scotia .....	41	5	16	38
New Brunswick .....	75	3	7	15
Quebec .....	72	2	8	17
Ontario .....	72	1	6	21
Manitoba .....	40	2	15	43
Saskatchewan .....	9	21	30	40
Alberta .....	39	15	6	40
British Columbia .....	...	...	...	...

<sup>1</sup> 0.5 per cent or less.

## CONCEPTS AND DEFINITIONS

### Census of Logging

#### General

The Census of Logging is an annual mail survey covering Canada's Logging Industry. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. Principal statistics are collected and compiled by province. However, they cannot always be published on that basis, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the establishment (see definition of **Establishment** in following section) and a return is requested from every establishment classified to the logging industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are two different questionnaires used in the Census of Logging: (a) short form and (b) long form. These forms are used to obtain principal statistics and commodities shipped from establishments classified to the logging industry and differ only in the amount of detail requested. The short form is sent to small operators generally reporting production of less than 500 M cu. ft. or revenue of less than \$100,000.

The statistical framework within which the Census of Logging is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

#### Establishment

A logging establishment is typically a unit which is engaged in logging and related activities (such as felling, bucking, skidding, hauling, trucking, booming, towing, etc.). In most cases, the establishment coincides with the firm. However, firms that have more than one establishment are requested to submit a separate Census of Logging report for each logging establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies purchased
- Goods purchased for resale as such
- Fuel and power purchased
- Number of employees and salaries and wages
- Man-days worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (logging, merchandising, construction by own labour force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their logging activities. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate co-ordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in logging activities. These units do not represent the total number engaged in logging operations. Numerous logging operations are conducted by establishments classified to other industries (e.g. the sawmill industry) and by farmers and other individuals.

#### Employees

##### (a) Production and related workers - Logging activity

In addition to those engaged in production, they include employees engaged in maintenance, repair, janitorial, cooking and watchman services and working foremen engaged in similar work to that of the employees they supervise. The average number of production and related workers engaged in logging is calculated by dividing the reported number of man-days paid during the year by 240 in British Columbia and 270 in the other provinces. The number of man-hours paid is calculated on the basis of 8 hours per day in British Columbia and 9 hours per day in other provinces. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

##### (b) Production and related workers - Non-logging activities

Such employees include those on logging establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments and any other production workers who are not engaged in logging-type operations.

##### (c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents, supervisors above the working foreman level, clerical staffs, scalers and employees in activities such as purchasing, personnel, legal, medical, etc.

##### (d) Total employees

The numbers of employees included under categories (a), (b) and (c) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment.

It should be noted that the statistics on the old basis (in use prior to 1965) give total "employment" and "salaries and wages" and that working owners and partners were included.

#### Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

#### Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees' contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular





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employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included.

### Fuel and Electricity

Figures for fuel refer to amounts purchased (including fuel for cars, trucks, locomotives, etc.). Any fuel and electricity produced by establishments for internal consumption are not included in the total cost. Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity is considered part of logging activity statistics it should be noted that it also includes relatively small amounts used in non-logging activities since these cannot be reported separately.

### Materials and Supplies

#### (a) Logging activity

Figures represent quantities and laid down cost values, at the establishment, of materials and supplies purchased during the year for use in logging activities and related processes. This includes purchases of food, van supplies, etc., as well as payments for stumpage and royalties. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc., are not included) whether purchased from others or received as transfers from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts paid to others for logging work done on a contract basis. Cost of repairs or maintenance done by outside contractors are not included.

#### (b) Non-logging activities

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts.

### Revenue

#### General

The figures represent revenue from all production, sales, services and related activities of reporting establishment with shipments valued in Canadian dollars at the point at which the establishment relinquishes control.

#### (a) Revenue - Logging activity

These figures represent deliveries of wood produced either by the reporting establishment or by contractors on the basis of a charge to the reporting establishment for work done as well as wood purchased from various sources. Included are revenue from repair work and amounts received in payment for work done on materials owned by other establishments. Beginning in 1965 the logging revenue also includes revenue from van sales (including gasoline and oil) and amounts received from board and lodging. In the statistics for 1963 and 1964 these items were included in the non-logging revenue but the purchases were (and still are) included in the logging inputs.

All products shipped from the establishment are covered, including transfer shipments to other logging establishments or to log supply divisions, sawmills, shingle mills, veneer and plywood mills, pulp and paper mills, etc., of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of allowances, sales tax, excise taxes and duties, and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

#### (b) Non-logging revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from the sale of used materials (excluding sale of used fixed assets), research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

### Inventories

Values represent the book values of inventories owned in Canada. This may include wood in transit in Canada. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

### Value Added

#### (a) By logging activities

Figures are compiled by deducting the cost of the purchases of logging materials, supplies, etc. and fuel and electricity from the value of shipments (adjusted for changes in the value of inventories).

#### (b) By non-logging activities

The figures are compiled by deducting the cost of non-logging materials and supplies used from the value of non-logging revenue.

#### (c) By total activities

The figures consist of value added by logging activities plus value added by non-logging activities. This total value added figure may, in some cases, be less than value added by logging activities as a result of expenditures associated with non-logging activities exceeding revenues from such activities. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Logging. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".