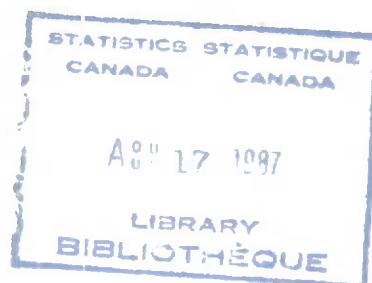


CATALOGUE No.

25-202

ANNUAL



CANADIAN FORESTRY STATISTICS

1963 and 1964



Published by Authority of
The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS
Manufacturing and Primary Industries Division

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Price: 50 cents

PUBLICATIONS

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CANADIAN FORESTRY STATISTICS

1963 and 1964

With the publication of the results of the 1962 Census of Manufactures, the Bureau completed a major revision in the classification and concept of its annual Census of Manufacturing establishments. The nature of these changes is described in the Concepts and Definitions following this report.

The Logging Industry is not a "manufacturing" industry. The principal statistics of Logging, contained in Table 6, are on the same basis as before and directly comparable to those of previous years, except for man-years. Beginning with 1962 man-years are based on 240 days for British Columbia and 270 days for all other provinces in order to conform more closely with actual practices in this industry.

The estimates of Forest Production in British Columbia as published in the past by the Dominion Bureau of Statistics differed considerably from the data published by the Forest Service of British Columbia. Because differences in figures from various sources lead to confusion among the users of statistics and because the administration of the forest resources is primarily a provincial responsibility, the Dominion Bureau of Statistics has decided to incorporate the production statistics of the

Forest Service of British Columbia in this publication rather than to continue to make its own estimates. As a consequence data in Tables 5 and 7 are not directly comparable to those of previous publications.

For the Manufacturing Industries this report contains, in order to provide comparability of data for recent years, principal statistics on the basis of the Revised Standard Industrial Classification and the New Establishment Concept, back to 1961.

Prior to 1964, establishments primarily engaged in planing lumber were included in the Sash, Door and Planing Mill Industry. However, beginning in 1964 such plants have been transferred to the Sawmill Industry. To permit year-to-year comparisons, the statistics for 1961-63 which appear in this publication have been revised accordingly. As a result, they do not agree with those published in previous publications. To reflect this change, the title of this industry has been changed from "Sawmills" to "Sawmills and Planing Mills".

The table "Principal Statistics of the Forest Industries" has been omitted because the statistics for the Logging Industry are not on the same basis as the statistics for the Manufacturing industries.

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.
- ° preliminary figures.
- ° revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

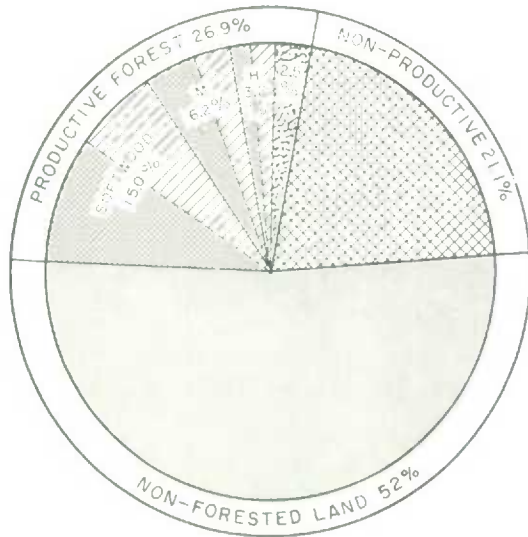
TABLE 1. Area Classification by Province, 1963

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 ¹	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 ¹	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	

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

Source: Department of Forestry.

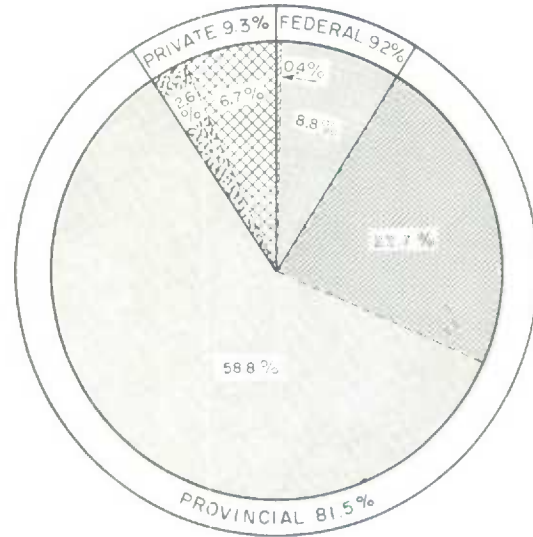
DISTRIBUTION OF LAND AREAS
1963



LEGEND



LAND TENURE PRODUCTIVE FOREST
1963

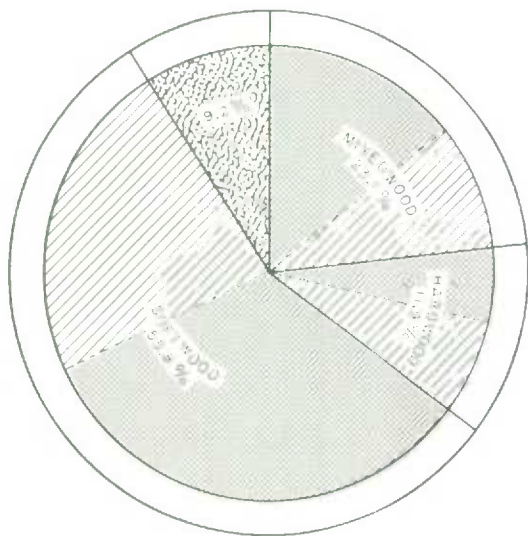


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PRODUCTIVE FOREST AREA, 1963

BY TYPES



LEGEND



BY PROVINCES

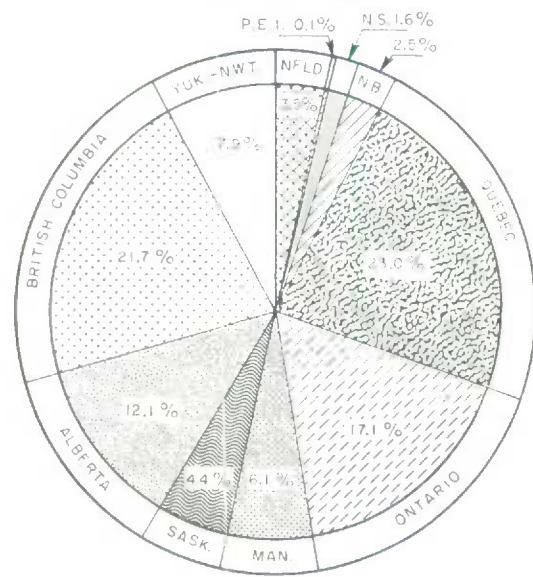


TABLE 2. Tenure of Productive Forest Lands, 1963

Classification	Newfoundland		Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	Labrador	Island					
	thousands of acres						
Provincial Crown:							
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
Federal Crown:							
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
Privately-owned:							
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	Saskatchewan	Alberta	British Columbia	Northwest Territories	Yukon Territory	Canada
	thousands of acres						
Provincial Crown:							
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
Federal Crown:							
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
Privately-owned:							
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
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	

¹ Included with "White Birch".

² Included with "Spruce".

³ Included with "Poplar".

Source: Department of Forestry.

MERCHANTABLE TIMBER

1963

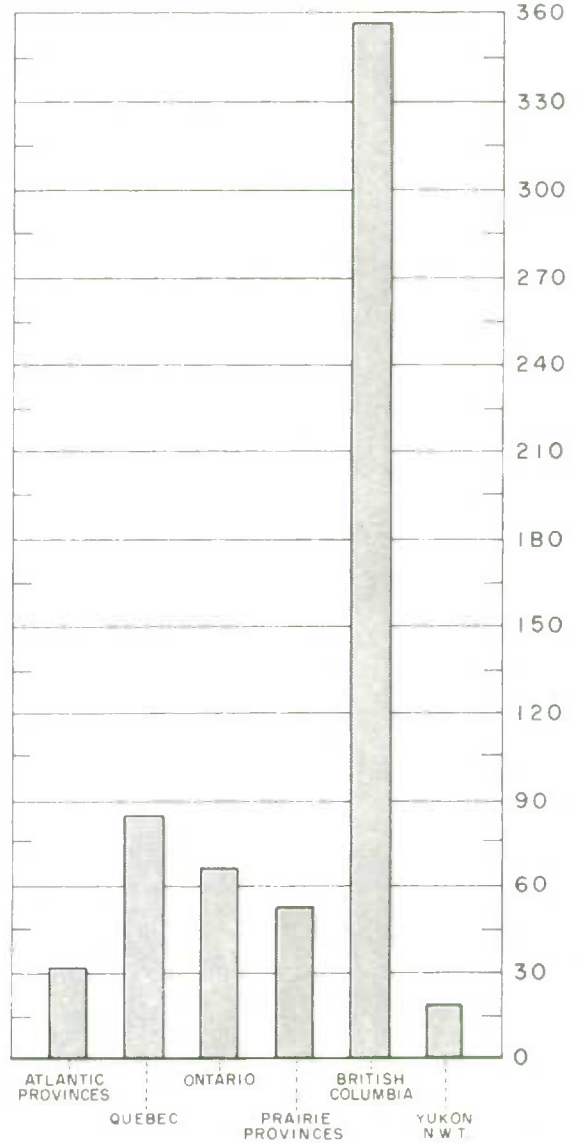
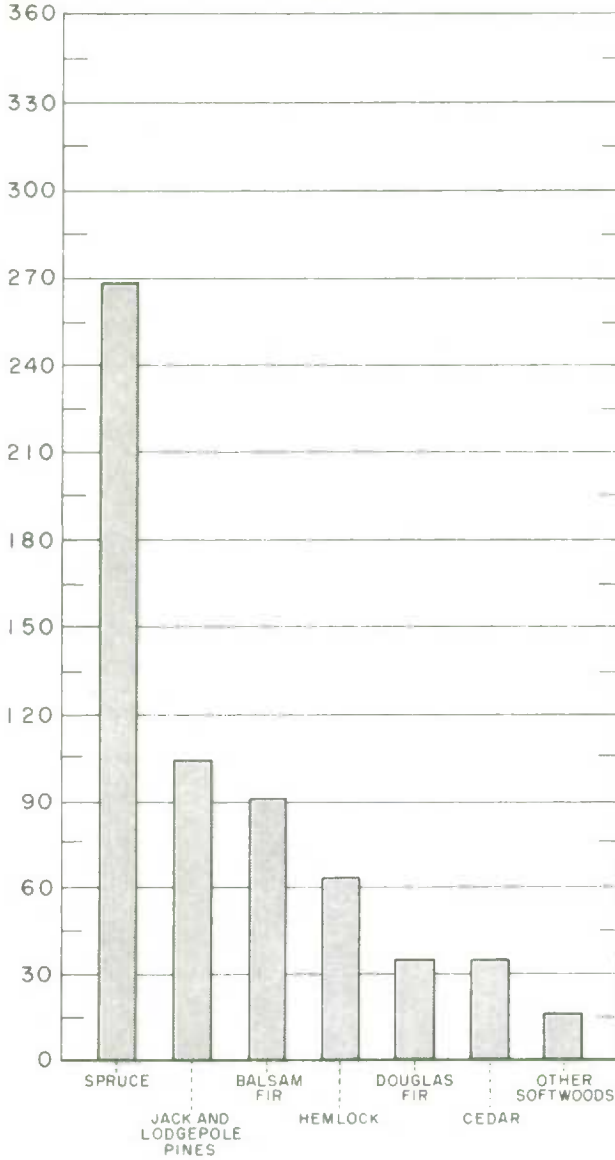
BILLIONS
OF
CUBIC FEET

BY SPECIES

SOFTWOODS

BY PROVINCES

BILLIONS
OF
CUBIC FEET



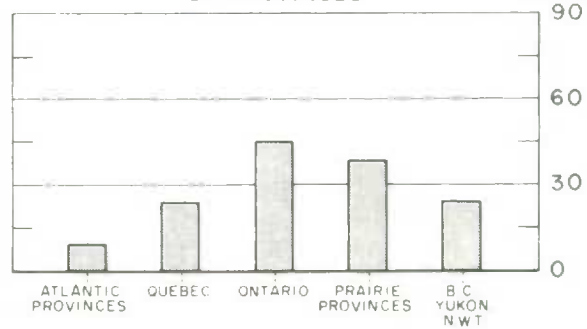
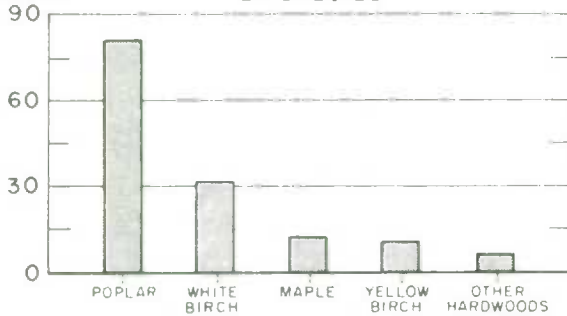
BILLIONS
OF
CUBIC FEET

BY SPECIES

HARDWOODS

BY PROVINCES

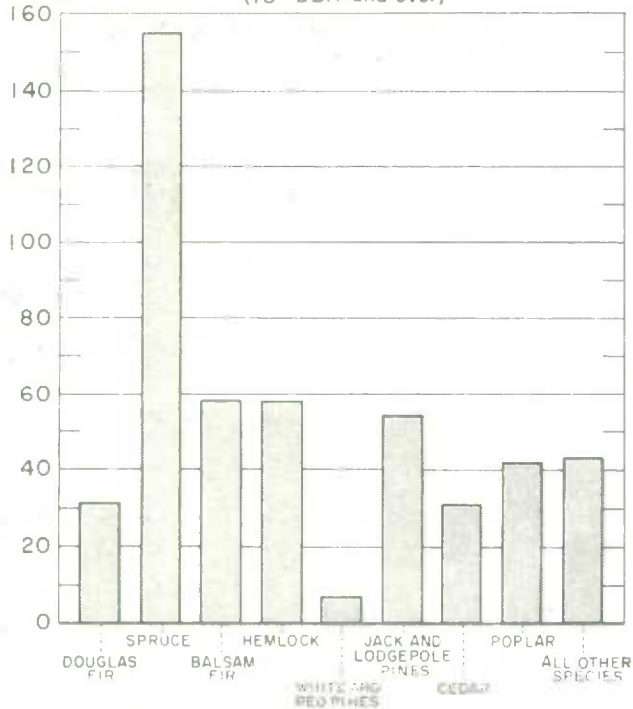
BILLIONS
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TIMBER OF MERCHANTABLE SIZE, BY SPECIES, 1963

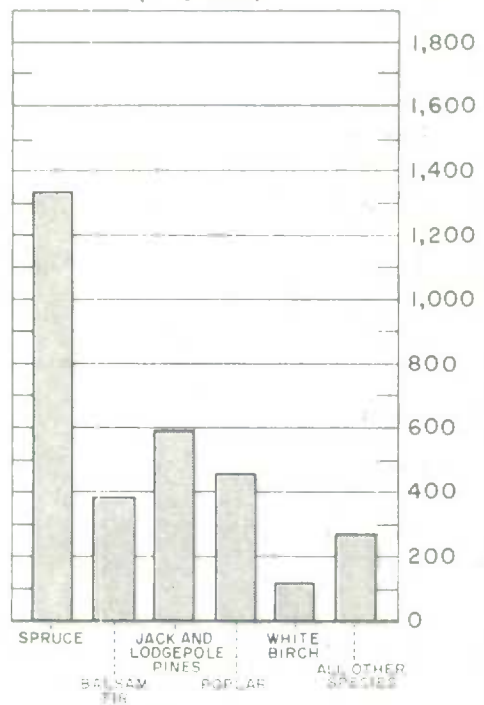
BILLIONS
OF
CUBIC FEET

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
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CORDS

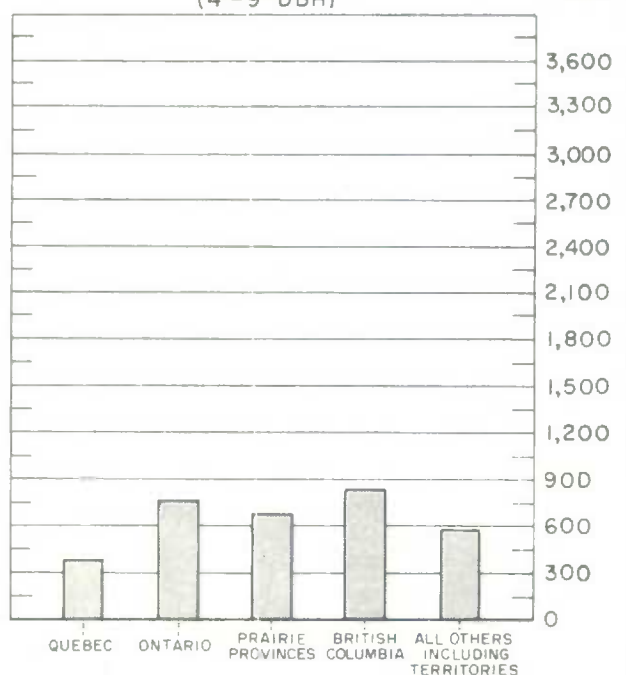


TABLE 4. Merchantable Timber by Size Class and Province, 1963

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

¹ Included with "Spruce".

² 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	—	1	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	2	2	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	—	1	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	2	2	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

¹ Included with "White Birch".

Source: Department of Forestry.

TABLE 5. Depletion

Year	Utilization						Fire losses	Depletion ¹ Volume
	Logs and bolts	Pulpwood	Other primary products	Total industrial wood	Non-industrial wood ²	Total		
	thousands of cubic feet of merchantable timber							
1960 ^r	1,805,277	1,198,023	48,458	3,051,758	241,553	3,293,311 ^r	369,606	3,662,917
1961 ^r	1,730,433	1,150,086	54,076	2,934,595	240,707	3,175,302 ^r	2,649,996	5,825,298
1962 ^r	1,931,210	1,052,102	68,064	3,051,376	226,530	3,277,906 ^r	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

¹ 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. Prior to 1953 an estimate of 500,000,000 cubic feet was allowed annually for insect and disease losses.

² Includes fuelwood and wood for charcoal.

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

TABLE 6. Principal Statistics - Logging

Year	Employees (man-years) ¹	Salaries and wages	Cost of materials	Net value of production	Gross value of production
	number		thousands of dollars		
1960	86,539 ¹	374,731	72,923	733,566	806,488
1961	94,681 ¹	422,374	137,576	708,459	846,035
1962	85,280 ¹	398,575	140,900	746,914	887,814
1963	95,983 ²	421,571	147,499	790,413	937,912
1964	95,894 ²	442,374	157,763	857,983	1,015,746

¹ Man-year - British Columbia 260 days, other provinces 300 days.

² Man-year - British Columbia 240 days, other provinces 270 days.

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

TABLE 7. Primary Forest Production

Year	Logs and bolts	Pulpwood	Fuelwood	Poles and piling ¹	Round mining timber	Other roundwood
	M ft.b.m.	'000 cords		'000 cu.ft.	'000 cords	'000 cu.ft.
1960 ^r	10,076,483	14,102	2,980	18,876	99	18,991
1961 ^r	9,654,480	15,308	2,992	24,821	77	25,342 ²
1962 ^r	10,819,146	12,392	2,792	25,887	67	42,375 ¹
1963	11,861,753	13,306	2,616	18,948	65	41,015 ²
1964	12,232,544	13,967	2,434	20,056	64	38,016 ¹
	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	thousands cubic feet					
1960	126,702	10,834	98,095	187,297	879,914	541,329
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	104,604	195,503	933,096	569,767
	Manitoba	Saskatchewan	Alberta	British Columbia ³	Yukon and Northwest Territories	Canada
	thousands cubic feet					
1960	45,255	49,860	148,485	1,199,843 ^r	5,697	3,293,311 ^r
1961	37,602	44,036	118,390	1,167,051 ^r	1,815	3,175,302 ^r
1962	53,160	47,844	131,706	1,342,936 ^r	4,100	3,277,906 ^r
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

¹ Formerly reported in thousands of pieces.

² Includes some fence posts, mine timber, poles, piling and miscellaneous roundwood.

³ Source: British Columbia Forest Service.

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

TABLE 8. Exports of Primary Forest Products

Year	Logs and bolts		Pulpwood		Fuelwood		Other products	Total
	Quantity	Value	Quantity	Value	Quantity	Value	Value	Value
	M ft.b.m.	\$'000	'000 rough cords	\$'000	'000 cords		\$'000	
1960	29,442	3,091	1,152	25,840	3	41	13,164	42,136
1961	88,762	6,198	1,151	27,157	2	36	12,601	45,992
1962	59,275	4,369	1,225	28,597	3	37	14,623	47,626
1963	93,392	6,359	1,114	25,903	—	—	13,078	45,340
1964	67,195	5,923	1,235	28,489	—	—	12,239	46,651
1965	64,467	6,262	1,352	33,827	—	—	12,249	52,338

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

TABLE 9. Principal Statistics — Sawmills and Planing Mills (excluding Shingle Mills), Manufacturing Activity and Total Activity, 1961-64

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	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													
Newfoundland	117	178	432	474	59	1,277	2,295	952	122	128	218	615	1,036
Prince Edward Island	32	24	50	45	9	112	243	117	34	41	24	45	118
Nova Scotia	255	1,491	3,599	3,582	494	8,232	16,640	7,873	217	321	1,838	4,688	8,241
New Brunswick	168	1,956	4,581	5,388	540	13,013	26,916	12,504	124	242	2,411	6,848	13,462
Quebec	874	7,474	17,684	21,917	2,527	59,885	110,324	48,937	731	1,329	9,070	27,960	50,212
Ontario	431	4,192	9,455	13,720	1,554	30,463	65,132	31,518	349	794	5,013	17,255	32,717
Manitoba	85	90	190	231	53	368	992	586	76	114	127	320	604
Saskatchewan	112	403	803	1,187	165	2,679	6,562	3,675	102	139	549	1,616	3,713
Alberta	196	1,820	3,746	5,266	1,068	11,110	25,064	12,733	158	366	2,495	7,614	12,992
British Columbia:													
Coast	116	11,764	24,161	57,714	3,572	168,457	283,005	112,411	24	69	13,002	66,032	113,712
Interior	701	12,054	23,620	49,659	7,154	130,204	245,104	110,781	354	1,110	14,643	63,356	111,904
Yukon and Northwest Territories	7	28	41	78	23	133	351	217	2	4	47	142	223
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	13,783	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

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

TABLE 10. Lumber Production and Shipments - Sawmills and Planing Mills, by Provinces and Species 1961-64

Province and species	1961 ¹			1962 ¹			1963			1964		
	Pro- duction	Ship- ments	Value of ship- ments	Pro- duction	Ship- ments	Value of ship- ments	Pro- duction	Ship- ments	Value of ship- ments	Pro- duction	Ship- ments	Value of ship- ments
	M ft. b.m.		\$'000	M ft. b.m.		\$'000	M ft. b.m.		\$'000	M ft. b.m.		\$'000
Newfoundland	25,510	29,366	2,309	20,491	25,167	2,088	17,234	22,215	1,802	16,847	21,027	1,598
Prince Edward Island	7,873	3,605	225	6,942	2,529	150	5,751	2,695	174	5,482	2,270	151
Nova Scotia	197,633	172,808	11,566	205,509	189,493	12,835	216,010	198,229	13,701	206,452	175,778	12,779
New Brunswick	269,935	266,590	19,380	289,652	286,544	20,593	287,105	301,380	21,328	352,427	331,935	25,031
Quebec	980,572	984,214	75,670	1,121,548	1,039,776	80,969	1,250,462	1,193,298	89,862	1,373,737	1,264,293	95,233
Ontario	628,213	557,560	46,803	622,302	636,661	54,361	717,334	629,532	52,762	753,453	690,152	61,085
Manitoba	27,209	19,940	988	22,064	15,940	836	19,564	13,257	689	22,145	22,495	1,306
Saskatchewan	53,908	61,599	3,940	48,566	76,617	4,943	54,443	82,792	5,322	54,982	76,264	4,786
Alberta	226,963	250,677	14,161	268,081	301,716	16,398	296,510	344,087	18,811	351,179	408,883	22,100
British Columbia:												
Coast	2,954,292	2,818,787	187,737	2,993,023	2,834,652	205,026	3,333,914	3,212,826	238,832	3,329,396	3,257,416	257,673
Interior	2,653,123	3,045,299	163,195	2,969,060	3,502,798	203,919	3,282,554	3,837,881	226,412	3,584,234	4,166,242	248,551
Yukon and Northwest Terri- tories	6,581	5,961	476	7,275	4,719	235	8,144	5,805	299	9,452	7,440	487
Canada	8,031,812	8,216,406	526,450	8,574,513	8,916,612	602,355	9,489,025	9,843,997	669,994	10,059,786	10,424,195	730,870
Softwoods:												
Douglas Fir	2,139,957	..	..	2,141,984	..	..	2,172,527	..	..	2,175,147	2,246,785	156,816
Spruce and Balsam Fir	2,695,813	..	..	3,075,682	..	..	3,338,142	..	..	3,744,940	4,172,694	260,949
Hemlock	1,350,538	..	..	1,422,927	..	..	1,800,126	..	..	1,820,670	1,783,355	126,691
White and Red Pines	361,233	..	..	343,734	..	..	370,070	..	..	374,204	349,578	33,804
Cedars	637,257	..	..	650,171	..	..	698,629	..	..	756,064	714,122	62,637
Jack and Lodge Pole Pines	338,492	..	..	417,006	..	..	516,213	..	..	534,987	581,444	34,705
Other	107,598	..	..	138,950	..	..	174,191	..	..	170,530	156,614	11,234
Sub-totals	7,630,888	..	..	8,190,454	..	..	9,069,898	..	..	9,576,542	10,004,592	686,837
Hardwoods:												
Yellow Birch	163,107	..	..	135,026	..	..	137,838	..	..	165,271	139,483	16,643
White Birch	15,206	..	..	19,821	..	..	19,820	..	..	17,259	15,595	1,250
Maple	122,511	..	..	131,267	..	..	149,809	..	..	172,963	152,703	16,953
Poplar	34,775	..	..	25,947	..	..	30,564	..	..	28,703	22,293	1,191
Other	65,325	..	..	71,998	..	..	81,096	..	..	99,048	89,529	7,996
Sub-totals	400,924	..	..	384,059	..	..	419,127	..	..	483,244	419,603	44,033
Totals, all species....	8,031,812	8,216,406	526,450	8,574,513	8,916,612	602,355	9,489,025	9,843,997	669,994	10,059,786	10,424,195	730,870

¹ Revised to include planing mills.

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

TABLE 11. Production of Softwood and Hardwood Lumber, by Province, in All Industries, 1963 and 1964

Province	1963			1964		
	Softwood	Hardwood	Total	Softwood	Hardwood	Total
	M ft. b.m.					
Newfoundland	35,949	227	36,176 ¹	29,906	61	29,967 ¹
Prince Edward Island	6,710	64	6,774 ²	6,073	102	6,175 ²
Nova Scotia	231,010	10,490	241,500 ¹	229,852	9,823	239,675 ¹
New Brunswick	261,203	27,987	289,190 ²	319,994	35,111	355,105 ²
Quebec	1,083,374	213,040	1,296,414 ²	1,167,229	248,039	1,415,268 ²
Ontario	555,233	193,552	748,785 ²	576,320	214,306	790,626 ²
Manitoba	35,216	9,005	44,221 ¹	32,848	9,012	41,860 ¹
Saskatchewan	60,674	5,526	66,200 ¹	57,901	2,777	60,678 ¹
Alberta	401,722	4,129	405,851 ¹	318,637	639	319,276 ¹
British Columbia:						
Coast	3,393,449	2,503	3,395,952 ²	3,487,405	4,686	3,492,091 ²
Interior	3,337,020	1,099	3,338,119 ²	3,601,124	2,067	3,603,191 ²
Totals	6,730,469	3,602	6,734,071 ²	7,088,529	6,753	7,095,282 ²
Yukon	8,144	—	8,144 ²	9,407	—	9,407 ²
Totals	9,409,704	467,622	9,877,326	9,836,696	526,623	10,363,319

¹ Source: Provinces (fiscal year).

² Source: DBS.

TABLE 12. Exports of Lumber, 1960 - 65

Year	Douglas Fir	Spruce	Hemlock	Pine	Other softwood ¹	Birch and Maple	Other hardwood ²	Total
	Thousands of feet board measure							
1960	1,584,490	1,341,615	912,054	150,801	257,556	111,398	16,419	4,574,333
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
	Thousands of dollars							
1960	108,237	96,075	65,950	13,814	39,196	21,006	2,022	346,300
1961	107,526	100,265	72,718	17,195	36,808	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

¹ Contains some flooring 1961-64.

² Contains some flooring in 1960.

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

TABLE 13. Principal Statistics - Shingle Mills, Manufacturing Activity and Total Activity, 1961-64

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies used	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	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													
Nova Scotia	2	8	18	16	3	43	77	30	7	10	8	16	30
New Brunswick	4												
Quebec	7	32	70	70	7	50	161	104	7	18	32	70	107
British Columbia	60	1,537	2,906	7,651	301	12,146	25,386	13,116	33	110	1,649	8,386	13,335
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
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	74	1,376	2,689	7,341	322	14,100	24,806	10,567	47	126	1,481	8,057	10,717

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

TABLE 14. Shingle Mills - Shipments of Shingles and Shakes, 1961-64

Province	1961		1962		1963		1964	
	'000 squares	\$'000	'000 squares	\$'000	'000 squares	\$'000	'000 squares	\$'000
Nova Scotia	...	...	11	84	11	73	20	161
New Brunswick	13	98						
Quebec	6	37	22	146	18	125		
British Columbia	1,760	15,850	1,747	17,916	2,109	24,948	1,894	24,302
Totals	1,779	15,985	1,781	18,146	2,138	25,146	1,914	24,463

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

TABLE 15. Shipments of Shingles and Shakes - All Industries, 1961-64

Province	1961		1962		1963		1964	
	'000 squares	\$'000	'000 squares	\$'000	'000 squares	\$'000	'000 squares	\$'000
New Brunswick	19	126	14	93	14	86	5	34
Quebec	44	290	76	500	73	505	64	484
British Columbia	2,227	19,704	2,257	22,733	2,793	32,764	2,596	33,393
Other Provinces	--	3	--	3	--	3	1	
Totals	2,290	20,125	2,347	23,329	2,880	33,358	2,666	33,916

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

TABLE 16. Exports of Shingles and Shakes, 1961-65

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

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

TABLE 17. Principal Statistics - Veneer and Plywood Mills, Manufacturing Activity and Total Activity, 1961-64

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Establishments	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		\$'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													
Newfoundland	1	x	x	x	x	x	x	x	x	x	x	x	x
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	2	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	23	2,499	5,807	7,177	550	16,541	31,930	14,531	x	x	2,759	8,591	15,682
Ontario	28	2,507	5,361	7,671	478	19,247	33,654	15,256	x	x	2,823	9,328	15,239
Manitoba	1	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan	1	x	x	x	x	x	x	x	x	x	x	x	x
Alberta	4	549	1,141	1,769	192	4,417	7,320	3,115	-	-	580	1,892	3,143
British Columbia	21	5,839	11,707	27,371	1,894	63,645	115,996	51,793	-	-	6,471	31,497	51,860
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
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
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	80	12,399	26,161	49,912	3,334	112,597	206,534	93,494	3	8	13,740	58,077	94,766

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

TABLE 18. Veneer and Plywood Mills - Shipments of Veneer and Plywood, 1960 - 64

Year	Veneer ¹		Plywood ²	
	Softwood	Hardwood	Softwood	Hardwood
Thousand square feet				
1960	389,278	702,833	1,036,367	257,091
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
Thousands of dollars ³				
1960	3,200	20,949	71,872	26,614
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

¹ Quantity of all thicknesses.

² Quantity on the basis of $\frac{1}{4}$ " sanded both sides for hardwoods and $\frac{1}{8}$ " unsanded for softwoods.

³ Value reported for softwood veneer includes some shipments at transfer prices.

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

TABLE 19. Veneer and Plywood - All Industries, Shipments and Exports, 1960 - 65

Year	Shipments			Exports			
	Veneer	Plywood ¹		Veneer ²		Plywood ³	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	M sq. ft.	M sq. ft. - $\frac{1}{8}$ " basis	M sq. ft. - $\frac{1}{4}$ " basis	M sq. ft.		M sq. ft. - $\frac{1}{4}$ " basis	
1960	1,092,111	1,638,914		34,573	462,926	163,954	28,579
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 .....	...	...	...	82,037	897,417	447,964	47,339
Thousands of dollars							
1960	24,149	98,486		585	16,465	11,029	4,638
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 .....	...	...	...	865	30,715	29,855	7,656

¹ Plywood - From 1960 to 1962 quantities on the basis of $\frac{1}{4}$ " sanded both sides. From 1963, softwood basis $\frac{1}{8}$ " unsanded, hardwood basis $\frac{1}{4}$ " sanded on both sides.

² Veneer - All thicknesses.

³ Quantities on the basis of $\frac{1}{4}$ " sanded both sides.

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

TABLE 20. Principal Statistics of Wood Industries. ¹ 1961 - 64
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	
1961 ^f	No.		'000				\$'000			\$'000			\$'000
Totals	5, 243	67, 532	138, 132	226, 217	20, 460	581, 239	1, 036, 179	436, 501	3, 344	7, 114	82, 085	292, 700	451, 583
1962 ^f													
Totals	5, 017	70, 279	150, 220	247, 957	23, 626	624, 133	1, 154, 377	510, 470	3, 737	8, 484	83, 466	311, 975	594, 794
1963													
Newfoundland.....	144	466	1, 058	1, 238	173	2, 709	4, 766	1, 837	147	190	534	1, 527	1, 943
Prince Edward Island	37	73	155	146	18	279	637	338	x	x	82	194	352
Nova Scotia	327	2, 046	4, 811	4, 928	622	11, 843	23, 210	10, 700	272	459	2, 502	1, 454	11, 410
New Brunswick	233	2, 521	5, 844	6, 901	741	16, 636	33, 947	15, 829	167	348	3, 074	8, 752	17, 029
Quebec	1, 526	16, 230	37, 748	46, 959	4, 364	120, 975	228, 263	104, 260	1, 205	2, 775	19, 350	60, 906	108, 022
Ontario	871	13, 200	28, 927	42, 840	3, 474	98, 525	197, 784	95, 107	590	1, 588	16, 026	56, 815	98, 532
Manitoba	133	819	1, 820	2, 537	248	5, 692	11, 410	5, 452	110	231	1, 020	3, 333	5, 740
Saskatchewan	143	821	1, 677	2, 613	344	5, 323	11, 909	6, 199	112	166	1, 134	3, 831	6, 898
Alberta	294	3, 450	7, 112	10, 881	1, 546	26, 256	52, 856	25, 315	203	502	4, 438	14, 846	26, 039
British Columbia	1, 064	33, 181	66, 329	150, 638	13, 624	397, 411	711, 716	306, 663	469	1, 489	38, 681	183, 968	310, 493
Yukon and Northwest Territories	7	28	41	78	23	133	351	217	x	x	47	142	223
Totals	4, 779	72, 836	155, 521	269, 759	25, 176	685, 784	1, 276, 848	571, 917	3, 315	7, 802	86, 888	340, 748	586, 681
1964													
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, 834	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
Totals	4, 594	76, 278	164, 329	295, 095	27, 749	771, 101	1, 395, 911	621, 141	3, 165	7, 658	89, 407	367, 005	634, 739

¹ 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 21. Principal Statistics — Pulp and Paper Mills, Manufacturing Activity and Total Activity, 1961-64

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													
Newfoundland	2	2,451	5,477	13,864	5,271	27,876	70,436	36,502	—	—	2,988	18,015	36,731
Nova Scotia	4	1,244	2,610	5,333	1,984	15,027	34,507	17,112	—	—	1,591	7,536	17,125
New Brunswick	8	3,640	7,784	18,109	10,152	55,249	113,306	47,921	—	—	4,143	21,382	49,543
Quebec	53	21,467	48,626	115,610	51,073	281,681	665,918	334,336	x	x	25,780	144,516	337,498
Ontario	38	16,609	36,101	88,034	35,463	227,941	523,478	259,112	—	—	20,109	111,644	162,172
Manitoba	3	941	2,051	4,850	3,126	17,853	49,333	28,138	—	—	1,224	6,547	28,053
Saskatchewan	1												
Alberta	3												
British Columbia	14	7,630	16,044	44,307	19,058	124,561	336,253	191,136	—	—	9,205	54,873	191,400
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

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

TABLE 22. Wood Pulp Production - Shipments and Value of Shipments, by Kind and by Province, 1963 and 1964

Kind	1963			1964		
	Production	Shipments	Value of shipments	Production	Shipments	Value of shipments
	A.D. tons		\$'000	A.D. tons		\$'000
	'000	'000		'000	'000	
Groundwood	5,850	287	19,612	6,442	321	21,968
Sulphite:						
Bleached	847	748	87,376	958	797	99,642
Unbleached	1,719	289	28,923	1,914	343	36,030
Sulphate:						
Bleached and semi-bleached	2,021	1,792	230,365	2,447	2,002	266,673
Unbleached	1,115	397	35,601	974	401	39,392
Screenings	87	27	596	83	27	666
All other pulp ¹	836	463	76,568	925	519	84,133
Totals	12,474	4,023	479,040	13,742	4,412	548,505
Quebec	4,732	909	102,886	5,204	979	114,166
Ontario	3,074	884	110,407	3,317	935	121,195
British Columbia	2,501	1,381	164,332	2,827	1,573	202,951
Other provinces	2,167	849	101,425	2,393	925	110,193

¹ Includes dissolving and special Alpha - Sulphite and Sulphate.

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

TABLE 23. Basic Papers and Paperboards - Production by Kind, 1960-64

Year	Newsprint	Book and writing	Wrapping	Paper-board	All other	Total
	'000 tons					
1960	6,689	403	322	1,067	232	8,713 ^r
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

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

TABLE 24. Basic Papers and Paperboards - Shipments by Kind, 1960-64

Year	Newsprint	Book and writing	Wrapping	Paper-board	All other	Total
	Thousands of tons					
1960	6,774	400	301	974	132	8,581
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
	Thousands of dollars					
1960	793,470	105,915	65,917	141,321	21,247	1,127,870
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

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

TABLE 25. Exports of Wood Pulp, 1960 - 65

Year	Ground-wood	Sulphite		Sulphate		Screenings	All other pulp	Total
		Bleached	Unbleached	Bleached and semi-bleached	Unbleached			
	Thousands of tons							
1960	235	676	170	1,120	346	11	43	2,601
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
	Thousands of dollars							
1960	16,348	100,317	19,744	150,805	31,839	306	5,763	325,122
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

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

TABLE 26. Exports of Paper, 1960 - 65

Year	Newsprint	Book and writing paper	Wrapping paper	Paper-board	Miscellaneous paper	Other paper products	Total ¹
Thousands of tons							
1960	6,190	61	34	131	73	²	6,490
1961	6,253	64	43	130	78	²	6,568
1962	6,148	70	36	155	111	²	6,520
1963	6,211	78	31	203	132	²	6,655
1964	6,816	107	32	221	162	²	7,338
1965	7,190	130	29	245	161	²	7,755
Thousands of dollars							
1960	757,930	12,170	5,408	14,443	4,604	4,148	798,702
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	869,566	24,150	5,346	31,509	18,870	4,947	944,388

¹ Includes only items for which tonnage available.

² These items not recorded by weight.

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

TABLE 27. Principal Statistics, Paper and Allied Industries,¹ 1961-64

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Establishments	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	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961 ^r													
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 ^r													
Totals	580	77,141	168,182	369,715	127,953	1,080,364	2,333,578	1,130,652	58	267	100,075	518,784	1,146,972
1963													
Newfoundland	3												
Prince Edward Island	1	4,037	8,802	20,195	7,491	46,332	111,239	56,516	—	—	4,994	26,885	56,777
Nova Scotia	9												
New Brunswick	18	3,895	8,352	18,885	10,251	59,539	119,874	50,109	x	x	4,640	23,795	51,665
Quebec	201	29,173	65,212	143,480	52,798	409,213	875,862	415,526	21	74	37,935	200,586	419,617
Ontario	260	29,275	63,373	140,159	38,658	430,110	870,010	403,204	27	134	38,605	201,867	408,205
Manitoba	25	1,322	2,895	5,357	1,803	21,086	44,865	22,020	—	—	1,718	7,675	22,216
Saskatchewan	7	173	379	670	159	2,249	3,930	1,543	x	x	206	847	1,501
Alberta	21	876	1,904	4,074	1,577	21,231	46,053	23,137	—	—	1,239	6,280	23,667
British Columbia	46	8,968	18,815	50,397	19,430	150,629	380,604	209,087	x	x	12,219	73,261	209,750
Totals	591	77,719	169,733	383,217	132,166	1,140,388	2,452,437	1,181,141	54	251	101,556	541,195	1,193,397
1964													
Newfoundland	3												
Prince Edward Island	1	4,154	9,400	22,027	8,698	51,789	123,225	62,716	—	—	5,112	29,032	63,070
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

¹ Paper and Allied industries includes: Pulp and Paper, Asphalt Roofing, Folding Cartons and Setup Boxes, Corrugated Boxes, Paper and Plastic Bags, Miscellaneous Paper Converters.

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. 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. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, 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 a manufacturing 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 four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1962 publication. The statistical framework within which the Census of Manufactures 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 manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing 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 used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours 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 (manufacturing, trading in goods not of own manufacture, 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 own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers — Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. 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-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-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 and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) 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. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

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 employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **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 used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. 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 (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

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 and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other 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 any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, 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

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. 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.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

chased for re-sale) and the cost of non-manufacturing materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "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 Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".

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