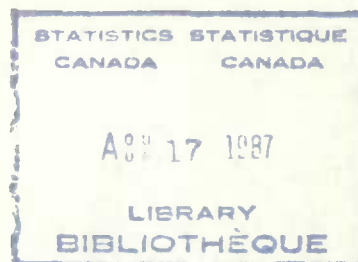


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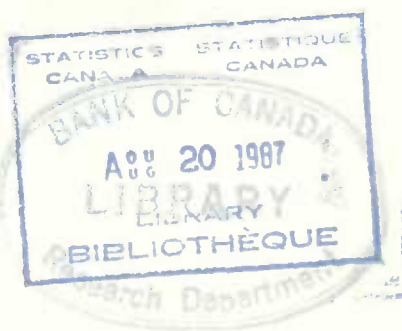
ANNUAL

DEC 20 1965



# CANADIAN FORESTRY STATISTICS

1962



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### SYMBOLS

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

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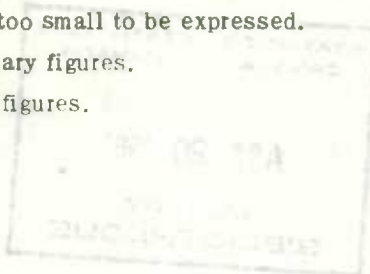


TABLE 1. Area Classification by Province, 1963

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
	Saskat- chewan	Alberta	British Columbia	Provincial total	Northwest Territories	Yukon Territory	Total Canada	
	thousands of acres							
Forest land:								
Productive forest land:								
Softwood — Merchantable .....	9,358	9,269	51,411	180,459	12,544	9,984	202,987	
Young growth .....	2,184	8,987	56,183	135,912	1,920	4,480	142,312	
Mixedwood — Merchantable .....	8,151	8,087	—	74,207	5,120	7,552	86,879	
Young growth .....	3,229	7,237	—	55,265	960	1,280	57,505	
Hardwood — Merchantable .....	6,098	3,363	2,525	29,365	640	2,368	32,373	
Young growth .....	1,135	8,786	5,090	39,538	320	1,280	41,138	
Unclassified .....	1,998	28,877	18,174	56,291	—	—	56,291	
Totals .....	32,153	74,606	133,383	571,037	21,504	26,944	619,485	
Non-productive forest land .....	43,199	26,255	37,905	347,355	103,040	25,024	475,419	
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.

# CANADIAN FORESTRY STATISTICS

1962

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

The Logging Industry is not a "manufacturing" industry. The principal statistics of Woods Operations, contained in Table 6, are still on the same basis as before and directly comparable to those of previous years.

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 1957. The inclusion of principal statistics on the old basis for the years 1955-59 provides a means of measuring the impact of the changes.

When comparing Table 9, principal statistics of the "Lumber Industry" (old basis) with Table 9 A, principal statistics of the "Sawmill Industry" (new basis) it is to be noted that the Shingle Mill Industry is included in the former and excluded in the latter. A further important difference between these two tables is that Table 9 gives the value of

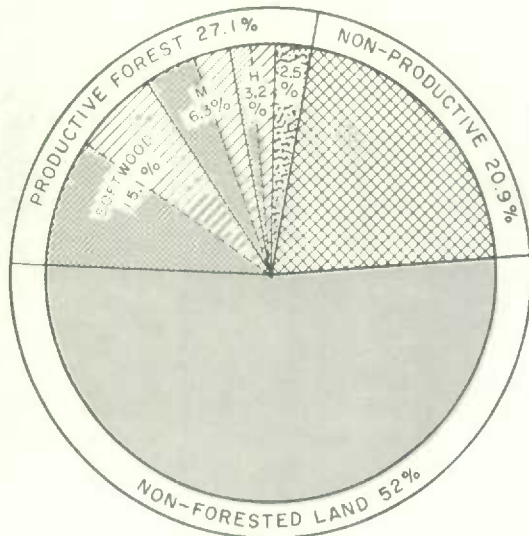
production while Table 9 A gives the value of shipments of goods of own manufacture (including amounts received for work done on materials owned by others). This change affected mainly custom sawing. Previously the lumber produced was valued but under the new approach—in cases of custom sawing—only the value of work done, which is considerably lower, was taken into account. This approach results in a better measure of value added by manufacture.

When the 1962 issue of Canadian Forestry Statistics is used in conjunction with previous issues it should be noted that the 1962 issue, in keeping with the Revised Standard Industrial Classification, includes principal statistics of the "Wood Industries" and the "Paper and Allied Industries" while the previous issues contained principal statistics of the "Wood-Using Industries" and the "Paper-using Industries". The main differences are that the group "Wood Industries" includes the Sawmill and Shingle Mill Industries while it does not include the Furniture Industries and that the group "Paper and Allied Industries" includes the Pulp and Paper 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.



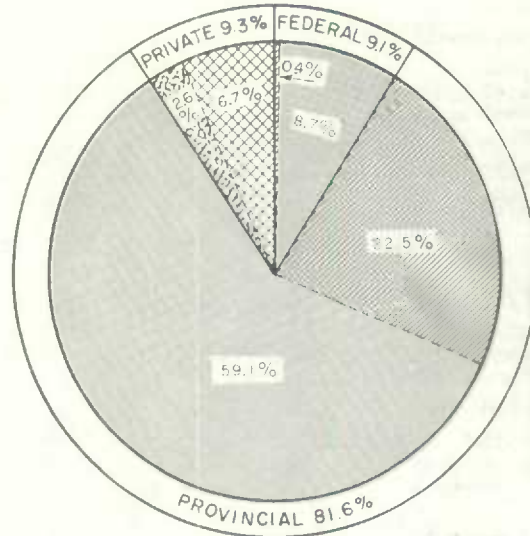
## DISTRIBUTION OF LAND AREAS 1963



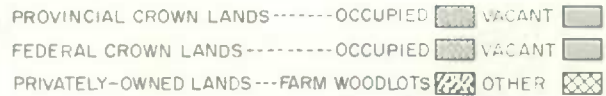
### LEGEND



## LAND TENURE PRODUCTIVE FOREST 1963

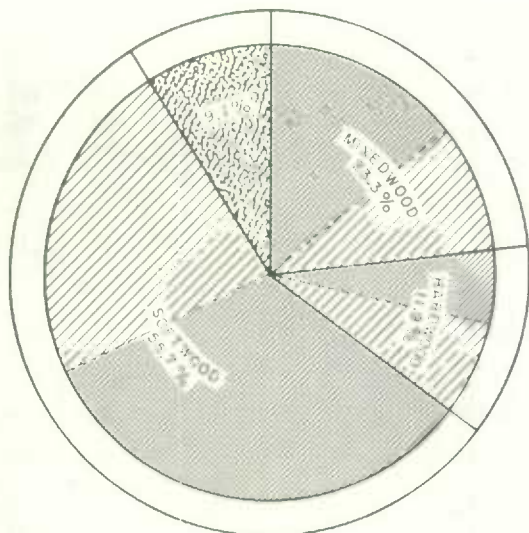


### LEGEND



## PRODUCTIVE FOREST AREA, 1963

### BY TYPES



### LEGEND



### BY PROVINCES

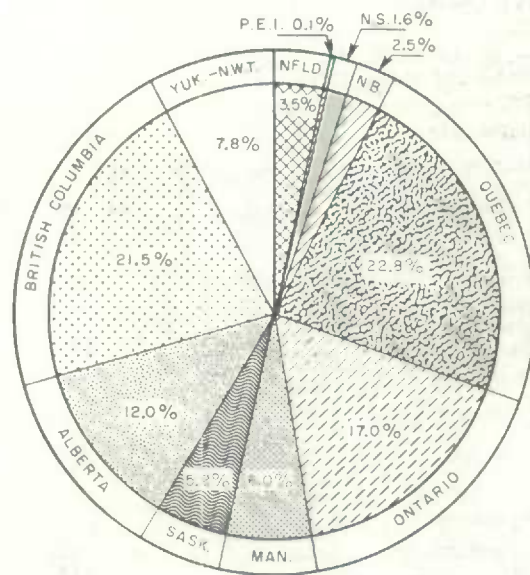


TABLE 2. Tenure of Productive Forest Lands, 1963

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
<b>Totals .....</b>	<b>13, 362</b>	<b>7, 192</b>	<b>2</b>	<b>2, 172</b>	<b>7, 048</b>	<b>124, 983</b>	<b>94, 900</b>
<b>Federal Crown:</b>							
Occupied:							
Leases and licences .....	—	—	—	—	—	—	—
Other .....	—	—	2	20	264	144	61
Sub-totals .....	—	—	2	20	264	144	61
Unoccupied .....	—	—	1	—	51	—	—
<b>Totals .....</b>	<b>—</b>	<b>—</b>	<b>3</b>	<b>20</b>	<b>315</b>	<b>144</b>	<b>61</b>
<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
<b>Totals .....</b>	<b>—</b>	<b>1, 118</b>	<b>515</b>	<b>7, 459</b>	<b>7, 925</b>	<b>16, 073</b>	<b>10, 362</b>
<b>Grand totals .....</b>	<b>13, 362</b>	<b>8, 310</b>	<b>520</b>	<b>9, 651</b>	<b>12, 288</b>	<b>141, 200</b>	<b>105, 323</b>
	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	26, 451	62, 392	122, 256	—	—	365, 858
<b>Totals .....</b>	<b>33, 968</b>	<b>28, 253</b>	<b>67, 294</b>	<b>126, 210</b>	<b>—</b>	<b>—</b>	<b>505, 384</b>
<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
<b>Totals .....</b>	<b>831</b>	<b>1, 150</b>	<b>5, 189</b>	<b>589</b>	<b>21, 504</b>	<b>26, 943</b>	<b>56, 749</b>
<b>Privately-owned:</b>							
Farm woodlots .....	1, 489	1, 418	2, 123	734	—	1	16, 175
Others .....	953	1, 332	—	5, 850	—	—	41, 177
<b>Totals .....</b>	<b>2, 442</b>	<b>2, 750</b>	<b>2, 123</b>	<b>6, 584</b>	<b>—</b>	<b>1</b>	<b>57, 352</b>
<b>Grand totals .....</b>	<b>37, 241</b>	<b>32, 153</b>	<b>74, 606</b>	<b>133, 383</b>	<b>21, 504</b>	<b>26, 944</b>	<b>619, 485</b>

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 .....	8, 248	16, 074	113, 201	251, 269	10, 120	7, 386	268, 775	
Balsam Fir .....	242	1, 141	43, 859	90, 739	—	—	90, 739	
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, 874	13, 682	66, 250	104, 215	2	2	104, 215	
Ponderosa Pine .....	—	—	2, 553	2, 553	—	—	2, 553	
Cedar .....	—	—	29, 452	34, 163	—	—	34, 163	
Larch .....	317	—	2, 297	3, 069	—	—	3, 069	
Yellow Cedar .....	—	—	2, 699	2, 699	—	—	2, 699	
Totals .....	12, 681	30, 897	357, 132	593, 771	10, 120	7, 386	611, 277	
Hardwoods:								
Poplar .....	8, 997	24, 063	14, 072	75, 228	3, 909	1, 770	80, 907	
White Birch .....	1, 348	—	4, 758	30, 873	—	—	30, 873	
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 .....	10, 391	24, 063	19, 787	134, 927	3, 909	1, 770	140, 606	
Totals, all species .....	23, 072	54, 960	376, 919	728, 698	14, 029	9, 156	751, 883	

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

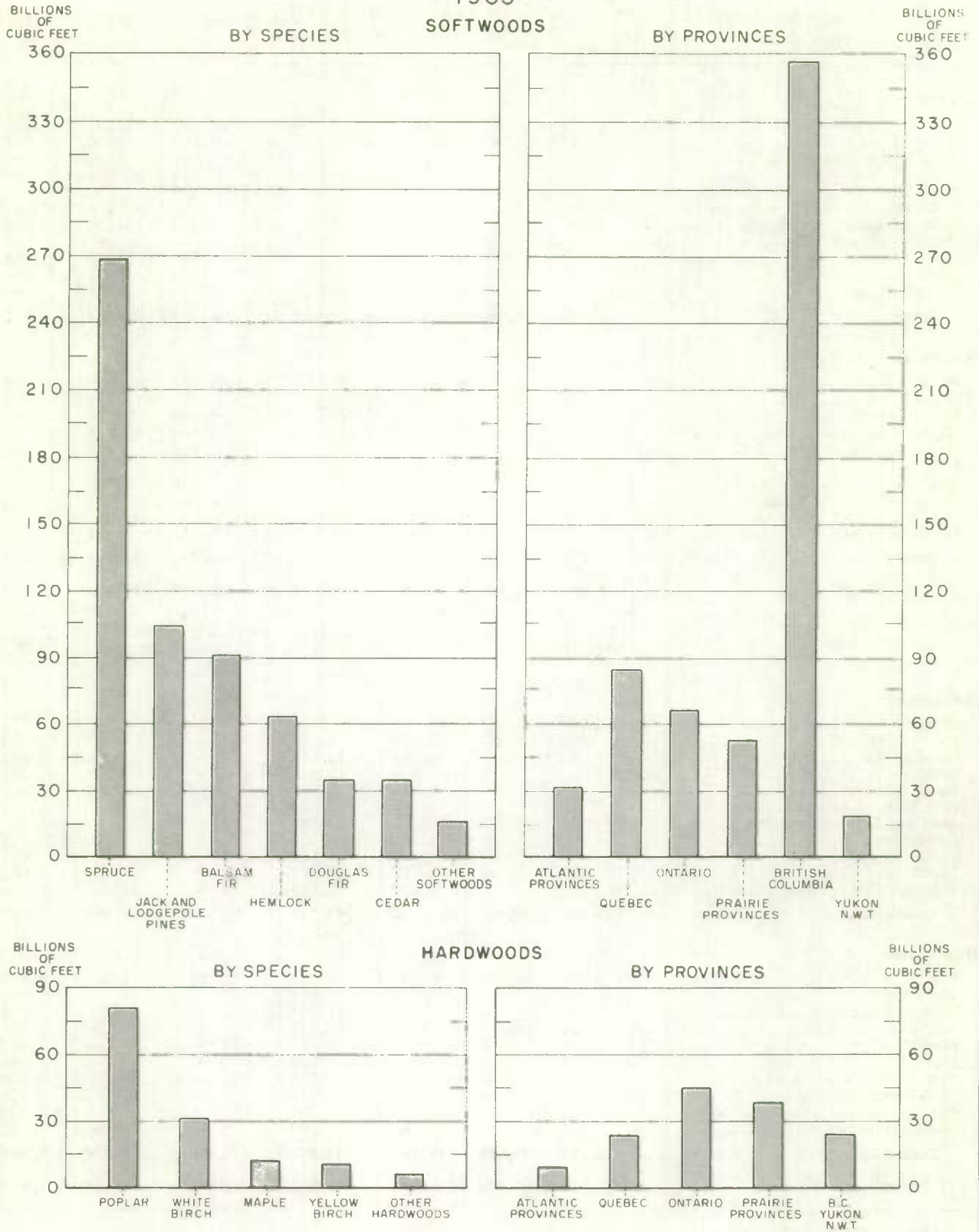
<sup>2</sup> Included with "Spruce".

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

Source: Department of Forestry.



# 1963 MERCHANTABLE TIMBER



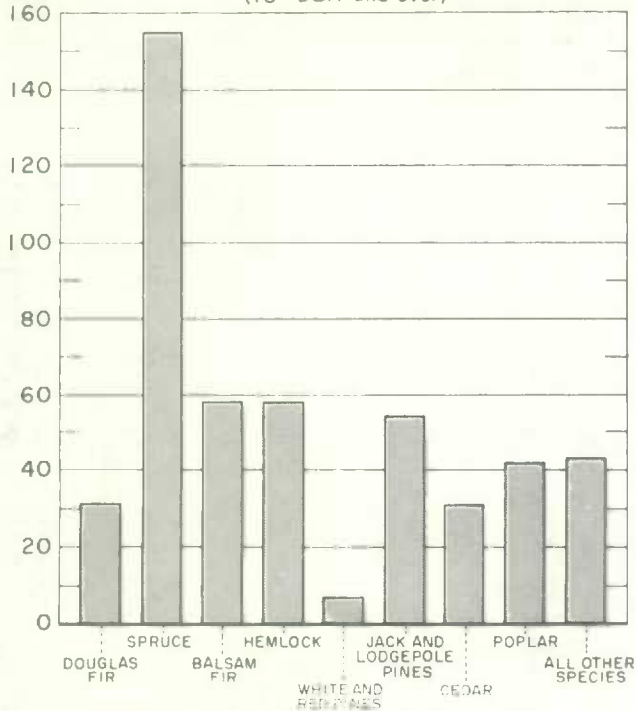
SOURCE: Department of Forestry.



## TIMBER OF MERCHANTABLE SIZE, BY SPECIES, 1963

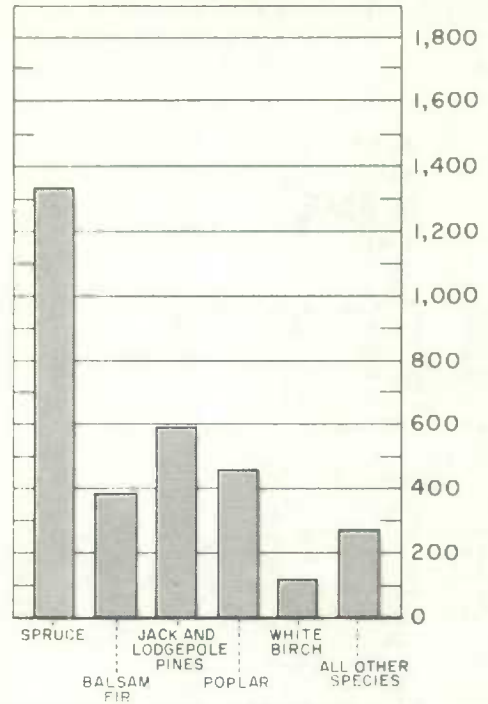
BILLIONS  
OF  
CUBIC FEET

LARGE MATERIAL  
(10" DBH and over)



SMALLER MATERIAL  
(4"-9" DBH)

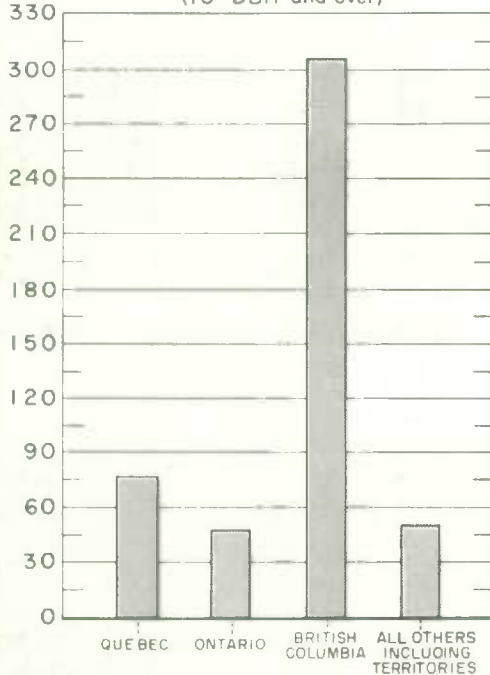
MILLIONS  
OF  
CORDS



## 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

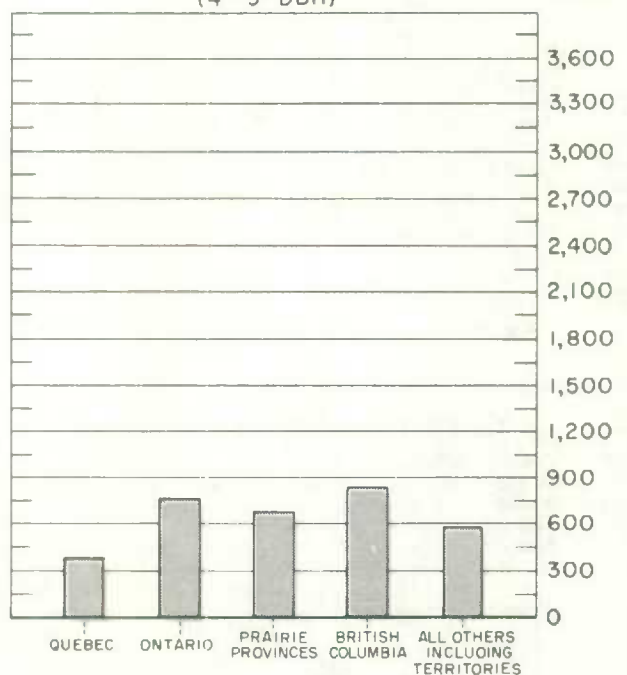


TABLE 4. Merchantable Timber by Size Class and Province, 1963

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	-	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	83,238	87,270	239,721	1,147,061	112,000	76,000	1,335,061	25
60,350	4,364	2,235	7,723	100,918	384,160	-	1	384,160	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	39,653	112,727	296,086	593,040	1	1	593,040	31
-	-	-	-	936	936	-	-	936	32
10,141	241	-	-	17,952	32,299	-	-	32,299	33
1,444	849	3,560	-	4,952	12,519	-	-	12,519	34
-	-	-	-	2,692	2,692	-	-	2,692	35
530,236	92,498	128,686	207,720	766,021	2,294,412	112,000	76,000	2,482,412	36
116,343	20,060	70,564	137,885	38,392	395,745	41,000	18,700	455,445	37
79,827	3,716	14,083	-	23,407	169,316	-	1	169,316	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	84,909	137,885	64,119	666,334	41,000	18,700	726,034	47
759,061	116,686	213,595	345,605	830,140	2,960,746	153,000	94,700	3,208,446	48

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

Source: Department of Forestry.



**TABLE 5. Depletion**

Year	Utilization						Fire losses	Depletion <sup>1</sup>
	Logs and bolts	Pulpwood	Other primary products	Total industrial wood	Non-industrial wood <sup>2</sup>	Total		Volume
	thousands of cubic feet of merchantable timber							
1958 .....	1,461,621	1,084,979	43,313	2,589,913	264,757	2,854,670	669,433	3,524,103
1959 .....	1,650,176	1,241,089	42,888	2,934,153	252,234	3,186,387	94,444	3,280,831
1960 .....	1,728,012	1,412,049	47,951	3,188,012	243,453	3,431,465	369,606	3,801,071
1961 .....	1,684,991	1,315,314	60,376	3,060,681	242,608	3,303,289	2,649,996	5,953,285
1962 .....	1,894,740	1,243,052	65,554	3,203,346	228,456	3,431,802	125,532	3,557,334

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

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

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

**TABLE 6. Principal Statistics of Woods Operations**

Year	Employees (man-years) <sup>1</sup>	Salaries and wages	Cost of materials	Net value of production	Gross value of production
	number		thousands of dollars		
1958 .....	67,327	338,284	68,595	570,016	638,611
1959 .....	82,551	347,406	57,004	658,712	715,716
1960 .....	86,539	374,731	72,923	733,566	806,488
1961 .....	94,681	422,374	137,576	708,459	846,035
1962 .....	85,280	398,575	140,900	746,914	887,814

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

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

**TABLE 7. Primary Forest Production**

Year	Logs and bolts	Pulpwood	Fuelwood	Poles and piling	Round mining timber	Other roundwood
	M.ft.b.m.	'000 cords	'000 cords	'000 pcs.	'000 cords	'000 cu.ft.
1958 .....	7,606,293	12,764	3,273	1,121	122	18,290
1959 .....	8,573,080	14,069	3,116	975	102	22,516
1960 .....	9,030,575	16,612	3,004	1,258	102	23,541
1961 .....	8,800,339	15,474	2,994	1,655	77	32,078 <sup>1</sup>
1962 .....	9,934,202	14,624	2,816	1,726	67	37,111 <sup>1</sup>
	Newfound-land	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	thousands cubic feet					
1958 .....	83,959	10,565	83,283	172,215	816,797	483,544
1959 .....	96,695	10,594	89,612	172,602	877,158	531,528
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
	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon and Northwest Territories	Canada
	thousands cubic feet					
1958 .....	50,377	41,561	107,612	998,827	5,930	2,854,670
1959 .....	51,766	44,621	135,003	1,173,965	2,843	3,186,387
1960 .....	45,255	49,860	148,485	1,337,997	5,697	3,431,465
1961 .....	37,602	44,036	118,390	1,295,038	1,815	3,303,289
1962 .....	53,160	47,844	131,706	1,496,832	4,106	3,431,802

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

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	
1958 .....	24,218	2,340	1,286	29,944	3	39	12,098	44,421
1959 .....	21,281	2,250	1,107	25,706	3	49	12,684	40,688
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

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

**TABLE 9. Principal Statistics - Sawmill Industry (including Shingle Mills), 1955 - 59**

Basis: Standard Industrial Classification in use prior to 1960

Year	Reporting mills	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Net value of production	Gross value of production
	number						
1955 .....	7,333	58,586	152,557	8,673	338,870	296,940	644,483
1956 .....	6,629	57,078	153,809	8,958	350,746	279,711	639,414
1957 .....	6,276	50,664	143,166	8,407	309,581	237,700	555,688
1958 .....	5,769	47,763	142,700	9,204	300,343	236,753	546,299
1959 .....	5,678	48,659	144,759	9,841	313,399	248,582	571,822

**TABLE 9A. Principal Statistics - Sawmill Industry (excluding Shingle Mills) Manufacturing Activity, 1957 - 61**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added
		Production and related workers		Administrative and office employees		Total					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000			\$'000			
1957 .....	4, 490	37, 603	109, 970	8, 441	24, 045	46, 044	134, 015	7, 948	268, 363	484, 270	207, 940
1958 .....	4, 004	35, 675	110, 428	7, 809	23, 918	43, 484	134, 346	8, 763	262, 456	480, 675	209, 453
1959 .....	4, 003	37, 591	113, 547	7, 537	24, 907	45, 128	138, 454	9, 337	275, 114	508, 099	223, 650
1960 .....	3, 719	36, 714	119, 648	7, 172	25, 801	43, 886	145, 449	9, 501	295, 824	530, 187	224, 855
1961 .....	3, 260	35, 063	120, 226	6, 071	24, 474	41, 134	144, 700	11, 380	306, 238	534, 591	218, 228

Source: Annual reports "Sawmills" formerly "The Lumber Industry", Dominion Bureau of Statistics.

**TABLE 9B. Principal Statistics - Sawmills Industry (excluding Shingle Mills), Manufacturing Activity and Total Activity, 1961 and 1962**

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 used	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1961</b>													
Newfoundland .....	158	118	285	232	34	922	1,750	820	159	250	159	328	675
Prince Edward Island .....	40	36	75	59	6	113	262	141	38	56	38	63	143
Nova Scotia .....	261	1,174	2,455	2,233	367	5,784	11,192	4,921	200	313	1,525	3,112	5,027
New Brunswick .....	181	1,837	4,153	4,291	445	11,434	20,691	9,316	129	216	2,251	5,410	9,525
Quebec .....	907	5,453	11,707	13,327	1,667	37,930	69,272	29,104	591	931	6,812	17,576	30,328
Ontario .....	430	3,811	7,948	10,738	1,330	28,350	51,653	22,874	286	566	5,004	15,031	23,225
Manitoba .....	115	118	177	212	57	611	1,287	613	73	110	150	296	640
Saskatchewan .....	80	230	351	442	86	573	1,525	873	74	89	342	693	928
Alberta .....	179	917	1,495	2,039	440	3,265	8,557	4,702	146	229	1,283	3,116	5,045
British Columbia .....	897	21,170	40,767	86,394	7,160	215,108	369,221	148,387	470	897	24,635	104,013	150,420
Yukon and Northwest Territories	4	33	64	121	21	220	467	256			50	185	258
<b>Totals .....</b>	<b>3,252</b>	<b>34,897</b>	<b>69,475</b>	<b>120,088</b>	<b>11,815</b>	<b>304,310</b>	<b>535,867</b>	<b>222,007</b>	<b>2,166</b>	<b>3,659</b>	<b>42,249</b>	<b>149,823</b>	<b>226,414</b>
<b>1962</b>													
Newfoundland .....	139	113	291	247	43	681	1,458	704	172	229	135	301	713
Prince Edward Island .....	34	27	60	47	9	98	241	135	37	57	28	48	136
Nova Scotia .....	258	1,307	3,095	2,812	438	6,061	12,832	6,265	241	390	1,666	3,743	6,416
New Brunswick .....	171	1,985	4,606	4,783	519	12,051	22,392	10,062	137	225	2,287	5,742	10,353
Quebec .....	863	6,478	15,429	17,639	2,072	41,982	80,681	37,608	818	1,555	7,568	21,376	38,644
Ontario .....	436	3,968	9,163	12,690	1,591	29,203	59,456	28,313	336	688	4,768	15,854	27,405
Manitoba .....	89	89	188	220	57	481	1,216	678	99	150	111	286	697
Saskatchewan .....	75	219	433	552	118	629	1,838	1,091	81	91	271	675	1,096
Alberta .....	171	1,203	2,426	3,259	625	3,691	11,082	6,661	159	314	1,611	4,496	6,979
British Columbia:													
Coast .....	106	11,198	22,929	52,367	2,882	143,976	240,828	95,272	25	70	12,412	60,087	96,027
Interior .....	702	9,950	18,974	39,141	5,863	86,971	179,806	88,661	468	1,261	12,032	49,133	89,708
Yukon and Northwest Territories	7	32	55	96	31	149	313	132	3	3	49	148	144
<b>Totals .....</b>	<b>3,053</b>	<b>36,569</b>	<b>77,646</b>	<b>133,855</b>	<b>14,248</b>	<b>325,973</b>	<b>612,144</b>	<b>273,692</b>	<b>2,576</b>	<b>5,035</b>	<b>42,938</b>	<b>161,888</b>	<b>278,319</b>

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

TABLE 10. Lumber Production and Shipments—Sawmill Industry, by Provinces and Species 1961 and 1962

Province and Species	1961			1962		
	Production	Shipments	Value of Shipments	Production	Shipments	Value of Shipments
	M ft.b.m.	M ft.b.m.	\$'000	M ft.b.m.	M ft.b.m.	\$'000
Newfoundland .....	25,407	22,112	1,531	20,388	18,070	1,262
Prince Edward Island .....	7,873	3,605	225	6,942	2,529	150
Nova Scotia .....	195,084	139,671	8,979	202,960	152,445	9,913
New Brunswick .....	269,935	239,853	16,596	289,652	251,585	17,516
Quebec .....	976,301	795,121	58,465	1,117,277	920,683	67,212
Ontario .....	628,213	523,600	42,994	622,302	608,749	50,875
Manitoba .....	27,209	19,890	986	22,064	15,940	836
Saskatchewan .....	53,908	8,291	460	48,566	9,036	424
Alberta .....	211,897	99,553	4,995	253,015	149,561	7,943
British Columbia:						
Coast .....	2,951,920	2,816,709	187,307	2,990,651	2,824,338	203,458
Interior .....	2,608,948	2,421,985	127,112	2,924,885	2,829,381	162,879
Yukon and Northwest Territories .....	6,581	5,961	476	7,275	4,719	235
Canada .....	7,963,276	7,097,194	450,179	8,505,977	7,786,982	522,704
Softwoods:						
Douglas Fir .....	2,136,431	1,992,327	124,166	2,138,458	2,036,532	135,288
Spruce and Balsam Fir .....	2,633,533	2,192,837	128,742	3,013,402	2,613,252	156,881
Hemlock .....	1,350,493	1,314,552	77,681	1,422,882	1,382,378	89,366
White and Red Pines .....	361,088	311,586	27,430	343,589	325,797	29,353
Cedars .....	637,237	567,090	39,937	650,151	551,793	42,625
Jack and Lodge Pole Pines .....	338,484	295,652	16,488	416,998	405,969	23,229
Other .....	107,467	114,431	6,279	138,819	142,659	10,031
Sub-totals .....	7,564,733	6,788,475	420,723	8,124,299	7,458,380	488,774
Hardwoods:						
Yellow Birch .....	163,049	129,426	14,064	134,968	125,073	14,950
White Birch .....	15,206	12,645	963	19,821	13,552	1,120
Maple .....	121,459	91,131	9,019	130,215	118,112	11,915
Poplar .....	34,775	24,262	1,218	25,947	21,738	1,113
Other .....	64,054	51,255	4,191	70,727	60,127	4,832
Sub-totals .....	398,543	308,719	29,455	381,678	338,602	33,930
Totals, all species .....	7,963,276	7,097,194	450,179	8,505,977	7,786,982	522,704

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

TABLE 11. Lumber Production - All Industries<sup>1</sup>, 1962

Province	Softwood	Hardwood	Total
thousands of feet board measure			
Newfoundland .....	28,722	233	28,955
Prince Edward Island .....	8,404	58	8,462
Nova Scotia .....	219,132	9,086	228,218
New Brunswick .....	272,265	24,134	296,399
Quebec .....	976,423	195,736	1,172,159
Ontario .....	480,394	173,515	653,909
Manitoba .....	29,995	5,339	35,334
Saskatchewan .....	66,935	4,989	71,924
Alberta .....	321,498	1,389	322,887
British Columbia:			
Coast .....	3,015,311	4,244	3,019,555
Interior .....	2,983,765	538	2,984,303
Yukon and Northwest Territories .....	7,275	-	7,275
Totals .....	8,410,119	419,261	8,829,380

<sup>1</sup> Includes lumber produced in the "Sawmills" and in other industries. e.g. Sash door and planing mills, Furniture, Veneer and plywood and others  
Source: Various annual reports, Dominion Bureau of Statistics.

TABLE 12. Exports of Lumber, 1958-64

Year	Douglas Fir	Spruce	Hemlock	Pine	Other softwood <sup>1</sup>	Birch and Maple	Other hardwood <sup>2</sup>	Total
Thousands of feet board measure								
1958 .....	1,627,294	1,068,300	653,122	124,722	369,269	83,216	16,080	3,942,003
1959 .....	1,518,133	1,354,959	672,030	152,211	349,576	113,639	19,344	4,179,892
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
Thousands of dollars								
1958 .....	106,536	76,977	47,107	12,414	34,157	14,685	1,724	293,600
1959 .....	104,017	101,449	48,809	14,308	32,673	20,299	2,161	323,717
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 .....	110,119	151,573	109,130	27,468	51,442	22,181	1,392	473,305

<sup>1</sup> Contains some flooring 1961-64

<sup>2</sup> Contains some flooring 1958-60.

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



**TABLE 13. Principal Statistics - Shingle Mill Industry, Manufacturing Activity, 1957-61**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab-lish-ments	Employees						Cost of fuel and elec-tricity	Cost of materials and supplies used	Value of shipments of goods of own manu-facture	Value added
		Production and related workers		Administrative and office employees		Total					
		Number	Wages	Number	Salaries	Number	Salaries and Wages				
	No.		\$'000		\$'000				\$'000		
1957 .....	50	1,218	4,867	151	665	1,369	5,532	172	8,281	16,769	..
1958 .....	38	1,180	4,994	127	557	1,309	5,551	186	8,336	16,919	8,398
1959 .....	38	883	3,634	98	426	981	4,060	155	6,674	12,750	5,920
1960 .....	35	1,240	5,426	97	485	1,337	5,911	173	8,187	16,043	7,683
1961 .....	53	1,278	5,611	118	557	1,396	6,168	337	8,217	16,329	7,816

**TABLE 13 A. Principal Statistics - Shingle Mill Industry, Manufacturing Activity and Total Activity, 1961 and 1962**  
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 used	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000				\$'000			\$'000			\$'000
1961													
New Brunswick .....	4	8	21	21	2	43	99	53	4	9	8	21	53
Quebec .....	4	5	10	10	2	19	47	27	4	6	5	10	28
British Columbia .....	44	1,247	2,288	5,553	252	8,120	16,121	7,791	22	70	1,341	6,046	7,885
Totals .....	52	1,260	2,319	5,584	255	8,183	16,267	7,871	30	85	1,354	6,077	7,966
1962													
New Scotia .....	1	9	23	20	3	34	85	49	5	9	9	20	49
New Brunswick .....	3												
Quebec .....	6	19	43	39	9	70	150	72	6	12	19	39	73
British Columbia .....	47	1,254	2,385	6,009	267	9,238	18,223	8,615	19	63	1,350	6,601	8,751
Totals .....	57	1,282	2,451	6,068	279	9,341	18,459	8,736	31	84	1,378	6,661	8,873

**TABLE 14. Shingle Mill Industry - Shingles and Shakes, Production and Shipments, 1961 and 1962**

Province	1961			1962		
	Production	Shipments	Value of shipments	Production	Shipments	Value of shipments
	'000 squares	'000 squares	\$'000	'000 squares	'000 squares	\$'000
New Brunswick	13	13	98	11	11	84
Quebec	9	6	37	22	22	146
British Columbia	1,682	1,760	15,850	1,609	1,747	17,916
<b>Totals</b>	<b>1,704</b>	<b>1,779</b>	<b>15,985</b>	<b>1,643</b>	<b>1,781</b>	<b>18,146</b>

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

**TABLE 15. Shingles and Shakes - All Industries, 1958-64**

Year	Shipments	Exports	Value of exports
	'000 squares	'000 squares	\$'000
1958	2,324	1,846	19,828
1959	2,210	1,801	21,406
1960	2,344	1,950	20,968
1961	2,290	2,059	20,780
1962	2,347	2,256	24,172
1963	...	2,565	30,317
1964	...	2,558	31,946

Source: Various annual reports, Dominion Bureau of Statistics.

**TABLE 16. Principal Statistics - Veneer and Plywood Industry, 1955-59**  
Based on former Standard Industrial Classification

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Gross value of shipments	Value added by manufacture
	number				\$'000		
1955 .....	61	10,296	31,339	1,376	54,709	116,204	60,118
1956 .....	72	11,596	36,803	1,627	71,621	137,581	67,947
1957 .....	77	10,912	36,101	1,643	66,161	121,160	53,565
1958 .....	71	10,806	37,351	1,923	66,002	129,954	61,082
1959 .....	72	11,607	40,658	1,994	70,337	141,573	68,545

**TABLE 16 A. Principal Statistics - Veneer and Plywood Industry Manufacturing Activity, 1957-61**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish ments	Employees						Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added
		Production and related workers		Administrative and office employees		Total					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957 .....	77	10,044	30,911	1,121	5,862	11,165	36,772	1,765	66,975	123,617	..
1958 .....	71	9,798	31,849	1,113	6,047	11,011	37,696	2,049	66,974	132,460	62,597
1959 .....	72	10,655	34,519	1,176	6,824	11,831	41,343	2,124	71,354	144,443	70,415
1960 .....	76	9,856	34,948	1,222	6,978	11,078	41,927	2,599	76,372	137,881	61,299
1961 .....	75	10,007	36,201	1,102	8,182	11,109	42,383	2,929	79,158	143,719	60,285

**TABLE 16 B. Principal Statistics - Veneer and Plywood Industry Manufacturing Activity and Total Activity, 1961 and 1962**  
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 used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1961</b>													
Quebec .....	23	1,986	4,711	5,077	483	11,751	22,443	10,240	3	10	2,254	6,384	10,578
Ontario .....	26	1,950	4,217	5,853	316	12,105	24,484	12,032	-	-	2,193	7,108	12,264
British Columbia .....	19	5,538	10,743	23,668	1,885	52,688	91,414	35,485	-	-	6,165	27,481	35,955
Other provinces .....	7	553	1,121	1,604	245	2,615	5,376	2,527	-	-	569	1,756	2,526
<b>Totals .....</b>	<b>75</b>	<b>10,007</b>	<b>26,792</b>	<b>36,201</b>	<b>2,929</b>	<b>79,158</b>	<b>143,719</b>	<b>60,285</b>	<b>3</b>	<b>10</b>	<b>11,181</b>	<b>42,729</b>	<b>61,325</b>
<b>1962</b>													
Quebec .....	23	2,329	5,536	6,420	490	14,147	28,424	13,789	1	1	2,610	7,830	14,037
Ontario .....	28	2,341	5,140	7,178	422	15,826	29,588	13,949	1	1	2,625	8,548	14,120
British Columbia .....	20	5,532	11,103	24,843	1,763	57,529	102,425	43,844	1	1	6,228	28,871	43,913
Other provinces .....	8	619	1,188	1,727	269	3,040	5,606	2,580	-	-	683	1,905	2,570
<b>Totals .....</b>	<b>79</b>	<b>10,821</b>	<b>22,965</b>	<b>40,168</b>	<b>2,945</b>	<b>90,544</b>	<b>166,043</b>	<b>74,161</b>	<b>5</b>	<b>16</b>	<b>12,126</b>	<b>47,155</b>	<b>74,640</b>

<sup>1</sup> Confidential data.

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

TABLE 17. Veneer and Plywood Industry - Shipments, Volume and Value, 1958 - 62

Year	Veneer <sup>1</sup>		Plywood <sup>2</sup>	
	Softwood	Hardwood	Softwood	Hardwood
Thousand square feet				
1958 .....	464,285	649,622	1,277,948	254,229
1959 .....	451,305	808,553	1,232,464	299,711
1960 .....	389,278	702,833	1,381,823	257,091
1961 .....	381,904	716,235	1,628,386	274,520
1962 .....	502,231	935,309	1,739,663	322,441
Thousands of dollars <sup>3</sup>				
1958 .....	3,641	16,813	70,586	25,177
1959 .....	3,607	23,187	71,496	29,851
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

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

<sup>2</sup> Quantity on the basis of 1/4" sanded both sides.

<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 18. Veneer and Plywood - All Industries, 1958 - 64

Year	Shipments		Exports			
	Veneer	Plywood	Veneer <sup>1</sup>		Plywood <sup>2</sup>	
			Softwood	Hardwood	Softwood	Hardwood
	M sq. ft.	M sq. ft. - 1/4" basis	M sq. ft.		M sq. ft. - 1/4" basis	
1958 .....	1,113,907	1,532,177	75,098	394,906	47,616	44,147
1959 .....	1,259,858	1,532,175	53,307	512,780	117,691	40,223
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 .....	...	...	62,817	719,380	280,444	48,928
1964 .....	...	...	28,467	830,917	455,421	48,362
Thousands of dollars						
1958 .....	20,454	95,763	936	11,900	4,912	4,776
1959 .....	26,794	101,347	751	17,113	8,251	6,236
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 .....	...	...	1,025	23,582	20,225	8,212
1964 .....	...	...	363	28,448	29,385	8,465

<sup>1</sup> Veneer - All thicknesses.

<sup>2</sup> Plywood - All thicknesses for 1958. From 1959 quantities on the basis of 1/4" sanded both sides.

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



**TABLE 19. Principal Statistics - Wood Industries,<sup>1</sup> Manufacturing Activity, 1957-61**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added
		Production and related workers		Administrative and office employees <sup>1</sup>		Total					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957 .....	6,808	72,941	208,818	15,222	50,792	88,163	259,610	15,666	529,836	944,710	..
1958 .....	6,021	69,508	209,367	14,280	51,674	83,788	261,041	16,581	522,788	956,768	417,422
1959 .....	6,002	72,190	216,818	13,091	54,401	86,181	271,219	17,174	552,701	1,015,657	447,687
1960 .....	5,730	69,101	222,360	13,633	55,829	82,734	278,189	17,752	560,871	1,007,333	432,144
1961 .....	5,251	67,681	226,562	12,361	53,769	80,042	280,331	20,340	584,793	1,035,344	431,373

**TABLE 19A. Principal Statistics - Wood Industries,<sup>1</sup> Manufacturing Activity and Total Activity, 1961 and 1962**

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 used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1961</b>													
Newfoundland .....	191	404	884	960	149	2,216	4,029	1,862	184	319	507	1,305	1,994
Prince Edward Island .....	50	94	194	169	18	301	719	388	47	71	104	236	391
Nova Scotia .....	339	1,935	4,135	4,051	556	12,226	21,704	8,880	253	439	2,562	5,887	9,913
New Brunswick .....	260	2,476	5,631	5,928	659	16,413	30,494	13,940	185	344	3,046	7,665	14,501
Quebec .....	1,701	14,493	32,235	36,794	3,714	100,929	186,991	82,101	1,171	2,633	17,611	49,419	85,636
Ontario .....	922	12,545	26,592	37,788	3,186	92,613	175,882	81,239	560	1,415	16,039	53,445	85,453
Manitoba .....	162	837	1,748	2,391	223	4,335	9,865	5,348	106	231	1,086	3,467	6,023
Saskatchewan .....	116	690	1,304	1,963	208	5,700	9,851	4,116	84	116	949	2,810	4,790
Alberta .....	299	2,726	5,145	7,812	1,025	20,539	39,576	17,895	192	346	3,473	10,608	18,610
British Columbia .....	1,199	31,312	60,261	128,267	10,704	325,721	556,540	220,444	561	1,200	36,670	157,704	223,972
Yukon and Northwest Territories	4	33	64	121	21	220	476	256	1	..	50	185	258
<b>Totals</b> .....	<b>5,243</b>	<b>67,543</b>	<b>138,194</b>	<b>226,244</b>	<b>20,464</b>	<b>581,214</b>	<b>1,036,125</b>	<b>436,471</b>	<b>3,344</b>	<b>7,114</b>	<b>82,097</b>	<b>292,733</b>	<b>451,553</b>
<b>1962</b>													
Newfoundland .....	171	448	1,020	1,157	4,634	2,988	4,547	1,749	197	269	532	1,446	1,953
Prince Edward Island .....	43	76	170	152	19	272	787	495	44	68	88	212	496
Nova Scotia .....	339	2,081	4,845	4,718	638	11,535	22,372	10,003	295	514	2,607	6,307	10,824
New Brunswick .....	244	2,636	6,137	6,533	728	17,110	31,651	14,168	192	339	3,075	8,044	14,901
Quebec .....	1,639	15,891	17,639	43,437	4,218	110,490	210,702	97,007	1,394	3,253	18,662	55,485	100,014
Ontario .....	921	13,149	29,189	42,060	3,637	97,954	191,540	88,187	601	1,533	19,258	51,670	92,889
Manitoba .....	137	804	1,747	2,434	259	5,407	11,030	5,323	133	263	975	3,152	5,688
Saskatchewan .....	118	837	1,707	2,622	372	6,297	11,777	5,136	96	132	896	3,258	5,410
Alberta .....	293	3,053	6,078	9,084	1,202	22,079	43,143	19,919	203	433	3,784	11,855	20,695
British Columbia .....	1,112	31,273	62,029	135,665	12,250	350,253	626,516	268,353	585	1,646	36,125	162,453	271,538
Yukon and Northwest Territories	7	32	55	98	31	149	313	132	3	3	49	148	144
<b>Totals</b> .....	<b>5,024</b>	<b>70,280</b>	<b>130,596</b>	<b>247,960</b>	<b>27,988</b>	<b>624,534</b>	<b>1,154,378</b>	<b>510,472</b>	<b>3,743</b>	<b>8,673</b>	<b>86,051</b>	<b>304,030</b>	<b>524,547</b>

<sup>1</sup> Wood Industries includes: Sawmills, Shingle Mills, Veneer and Plywood Mills, Sash, Door and Planning Mills, Wooden Box Factories, Coffin and Casket Industry and Miscellaneous Wood Industries.



**TABLE 20. Principal Statistics - Pulp and Paper Industry, 1955-59**  
Basis: Standard Industrial Classification in use prior to 1960

Year	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Net value of production	Gross value of production
	number						
1955	125	62,205	265,298	91,041	546,079	689,818	1,326,938
1956	126	65,985	297,572	103,506	625,205	736,346	1,465,058
1957	128	65,940	307,628	108,637	617,176	693,476	1,419,288
1958	128	64,084	307,416	105,797	597,805	702,951	1,406,553
1959	127	65,028	322,311	108,859	628,269	761,036	1,492,164

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

**TABLE 20A. Principal Statistics - Pulp and Paper Industry, Manufacturing Activity, 1957-61**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab-lish-ments	Employees						Cost of fuel and elec-tricity	Cost of materials and supplies used	Value of shipments of goods of own manu-facture	Value added
		Production and related workers		Administrative and office employees		Total					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957 .....	127	54,564	237,582	11,503	70,408	66,067	307,990	108,737	618,332	1,415,821	..
1958 .....	127	52,597	233,571	11,602	74,301	64,199	307,872	105,864	598,754	1,398,349	705,956
1959 .....	126	53,451	245,376	11,711	77,560	65,162	322,936	109,002	630,203	1,502,312	763,184
1960 .....	126	53,313	260,199	12,459	84,894	65,772	345,093	111,259	657,865	1,583,107	814,798
1961 .....	125	53,428	271,234	12,371	83,937	65,799	355,171	117,084	680,168	1,832,834	840,647

**TABLE 20B. Principal Statistics - Pulp and Paper Industry, Manufacturing Activity and Total Activity, 1961 and 1962**  
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 used	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1961</b>													
Newfoundland	2	2,672	5,959	15,236	5,171	29,893	73,725	39,225	—	—	3,305	19,608	39,369
Nova Scotia	3	952	1,956	3,876	1,617	8,386	21,698	11,607	—	—	1,198	5,275	11,527
New Brunswick	8	3,600	7,709	17,156	9,602	48,288	108,468	49,454	—	—	4,195	20,788	51,036
Quebec	52	21,841	48,602	110,359	47,594	259,268	619,042	315,524	<sup>1</sup>	<sup>1</sup>	25,839	136,352	317,515
Ontario	39	16,416	35,501	82,262	33,528	214,897	482,313	233,772	—	—	19,662	103,873	236,700
Manitoba, Saskatchewan and Alberta	7	982	2,078	4,811	2,979	16,646	43,361	23,767	—	—	1,253	6,560	23,809
British Columbia	14	6,985	14,336	37,534	16,592	102,790	284,225	167,296	—	—	8,337	46,511	167,879
<b>Totals</b>	<b>125</b>	<b>53,428</b>	<b>116,141</b>	<b>271,234</b>	<b>117,084</b>	<b>680,168</b>	<b>1,632,834</b>	<b>840,647</b>	<b><sup>1</sup></b>	<b><sup>1</sup></b>	<b>63,789</b>	<b>338,960</b>	<b>847,834</b>
<b>1962</b>													
Newfoundland	2	2,472	5,715	14,325	5,331	27,815	68,427	36,507	—	—	3,127	18,769	36,862
Nova Scotia	4	1,373	2,958	5,773	2,301	14,497	29,931	13,989	—	—	1,764	8,034	13,790
New Brunswick	8	3,623	7,838	17,762	9,590	51,723	106,663	46,244	—	—	4,207	21,401	48,222
Quebec	52	21,667	48,401	113,446	48,865	267,784	646,431	328,514	<sup>1</sup>	<sup>1</sup>	25,694	140,171	329,920
Ontario	38	16,358	35,421	84,943	34,954	222,766	508,412	253,260	—	—	19,714	107,532	255,830
Manitoba, Saskatchewan and Alberta	7	948	2,021	4,660	2,965	16,435	43,890	24,526	—	—	1,226	6,342	24,488
British Columbia	14	7,304	15,429	40,949	18,421	115,142	312,546	177,220	—	—	8,825	51,247	177,000
<b>Totals</b>	<b>125</b>	<b>53,745</b>	<b>117,783</b>	<b>281,858</b>	<b>122,427</b>	<b>716,163</b>	<b>1,716,300</b>	<b>880,260</b>	<b><sup>1</sup></b>	<b><sup>1</sup></b>	<b>64,557</b>	<b>353,497</b>	<b>886,111</b>

<sup>1</sup> Confidential data.

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

**TABLE 21. Wood Pulp Production - Shipments and Value of Shipments, by Kind and by Province, 1961 and 1962**

	1961			1962		
	Production	Shipments	Value of shipments	Production	Shipments	Value of shipments
	'000 A.D. tons	'000	\$'000	'000 A.D. tons	'000	\$'000
Groundwood .....	5,878	260	17,665	5,892	287	20,201
Sulphite:						
Bleached .....	684	542	66,813	717	584	70,297
Unbleached .....	1,730	250	26,797	1,689	267	28,531
Sulphate:						
Bleached and semi-bleached .....	1,616	1,383	174,023	1,834	1,585	198,854
Unbleached .....	1,081	448	40,850	1,092	403	36,330
Screenings .....	73	26	731	67	23	644
All other pulp <sup>1</sup> .....	717	426	65,200	842	541	82,064
<b>Totals .....</b>	<b>11,779</b>	<b>3,335</b>	<b>392,078</b>	<b>12,133</b>	<b>3,690</b>	<b>436,920</b>
Quebec .....	4,578	748	85,874	4,611	811	92,450
Ontario .....	2,981	812	100,193	3,052	830	104,560
British Columbia .....	2,256	1,110	122,649	2,411	1,288	148,516
Other provinces .....	1,964	665	83,362	2,059	760	91,395

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

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

**TABLE 22. Basic Papers and Paperboards - Production by Kind, 1958 - 62**

Year	Newsprint	Book and writing	Wrapping	Paper boards	All other	Total
	'000 tons					
1958 .....	6,031	345	293	986	224	8,081
1959 .....	6,351	382	330	1,041	231	8,550
1960 .....	6,689	403	322	1,067	232	8,923
1961 .....	6,718	420	327	1,066	238	8,769
1962 .....	6,663	440	333	1,178	265	8,879

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

**TABLE 23. Basic Papers and Paperboards - Shipments by Kind, 1958 - 62**

Year	Newsprint	Book and writing	Wrapping	Paper boards	All other	Total
	Thousands of tons					
1958 .....	5,982	344	273	882	141	7,868
1959 .....	6,371	372	310	924	139	8,435
1960 .....	6,774	400	301	974	132	8,882
1961 .....	6,675	417	309	1,017	140	8,617
1962 .....	6,648	434	323	1,092	164	8,908
	Thousands of dollars					
1958 .....	694,067	91,402	57,415	128,033	23,670	994,587
1959 .....	732,849	99,316	66,258	135,927	21,862	1,056,212
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

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

TABLE 24. Exports of Wood Pulp, 1958-64

Year	Ground-wood	Sulphite		Sulphate		Screen-ings	All other pulp	Total
		Bleached	Un-bleached	Bleached and semi-bleached	Un-bleached			
Thousands of tons								
1958 .....	233	580	218	900	248	7	32	2,219
1959 .....	240	606	180	1,059	317	10	38	2,450
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
Thousands of dollars								
1958 .....	16,195	88,458	27,137	124,428	24,295	245	4,691	285,449
1959 .....	16,661	94,261	22,029	143,546	29,011	320	5,424	311,253
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

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

TABLE 25. Exports of Paper, 1958-64

Year	Newsprint	Book and writing paper	Wrapping paper	Paper board	Miscellaneous paper	Other paper products	Total <sup>1</sup>
Thousands of tons							
1958 .....	5,683	48	32	108	58	<sup>2</sup>	5,929
1959 .....	5,910	59	43	116	74	<sup>2</sup>	6,202
1960 .....	6,190	61	34	131	73	<sup>2</sup>	6,490
1961 .....	6,253	64	43	130	78	<sup>2</sup>	6,568
1962 .....	6,148	70	36	155	111	<sup>2</sup>	6,520
1963 .....	6,211	78	31	203	132	<sup>2</sup>	6,655
1964 .....	6,816	107	32	221	162	<sup>2</sup>	7,338
Thousands of dollars							
1958 .....	690,209	9,608	5,219	12,958	3,196	3,508	724,699
1959 .....	722,271	11,665	7,098	13,320	4,342	3,535	762,232
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

<sup>1</sup> Includes only items for which tonnage available.

<sup>2</sup> These items not recorded by weight.

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



**TABLE 26. Principal Statistics - Paper and Allied Industries, Manufacturing Activity, 1957-61**

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added
		Production and related workers		Administrative and office employees		Total					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957 .....	571	76,960	306,273	18,107	99,748	95,067	406,021	113,321	891,628	1,877,712	..
1958 .....	546	75,140	305,542	18,087	105,313	93,227	410,855	110,532	885,869	1,894,559	913,092
1959 .....	544	76,194	321,372	18,241	110,429	94,435	431,800	113,780	938,249	2,030,093	981,522
1960 .....	565	76,040	338,844	19,241	119,379	95,281	458,223	116,088	978,958	2,125,895	1,034,430
1961 .....	569	76,166	353,061	18,696	118,076	94,862	471,137	122,289	1,021,503	2,205,734	1,071,316

**TABLE 26A Principal Statistics - Paper and Allied Industries, Manufacturing Activity and Total Activity, 1961 and 1962**

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 used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1961</b>													
Newfoundland .....	2	2,672	5,959	15,236	5,171	29,893	73,725	39,225	-	-	3,305	19,608	39,225
Prince Edward Island .....	1	1,171	2,485	4,537	1,779	10,722	26,031	13,512	-	-	1,472	6,117	13,421
Nova Scotia .....	5												
New Brunswick .....	19	3,849	8,267	17,810	9,693	51,553	113,579	51,344	1	1	4,713	23,419	53,071
Quebec .....	187	29,106	63,898	133,919	49,046	367,236	795,546	384,040	18	62	37,216	184,204	387,283
Ontario .....	259	28,751	61,770	129,168	36,311	395,942	787,882	358,023	26	105	37,325	184,171	363,230
Manitoba .....	23	1,219	2,579	4,753	1,690	18,212	39,040	19,449	-	-	1,615	6,859	19,528
Saskatchewan .....	7	154	325	539	142	1,861	3,267	1,234	1	1	189	722	1,177
Alberta .....	21	870	1,942	4,118	1,536	19,272	41,303	20,510	-	-	1,229	6,210	20,691
British Columbia .....	43	8,263	16,988	42,866	16,904	125,630	323,143	182,961	1	1	11,187	60,953	184,333
<b>Totals .....</b>	<b>567</b>	<b>76,058</b>	<b>164,212</b>	<b>352,948</b>	<b>122,271</b>	<b>1,020,320</b>	<b>2,203,517</b>	<b>1,070,299</b>	<b>49</b>	<b>211</b>	<b>98,251</b>	<b>492,263</b>	<b>1,082,503</b>
<b>1962</b>													
Newfoundland .....	2	2,472	5,715	14,325	5,331	27,815	68,427	36,507	-	-	3,127	18,769	36,862
Prince Edward Island .....	1	1,616	3,541	6,515	2,479	16,870	34,812	16,272	-	-	2,083	9,047	16,059
Nova Scotia .....	7												
New Brunswick .....	19	3,903	8,414	18,561	9,677	55,704	112,676	48,235	1	1	4,755	24,229	50,362
Quebec .....	193	29,225	64,721	139,573	50,409	385,202	841,524	405,324	24	95	37,888	193,983	417,210
Ontario .....	261	29,100	62,882	134,775	37,933	414,942	838,721	390,404	27	129	37,868	192,841	395,388
Manitoba .....	24	1,198	2,638	4,860	1,772	19,141	40,699	19,833	-	-	1,585	7,017	19,928
Saskatchewan .....	8	169	339	551	162	1,873	3,449	1,489	1	1	203	730	1,453
Alberta .....	21	892	1,900	4,085	1,437	19,984	41,375	19,981	-	-	1,261	6,192	20,266
British Columbia .....	44	8,566	18,032	46,469	18,754	138,834	351,894	192,698	5	30	11,612	65,521	193,264
<b>Totals .....</b>	<b>580</b>	<b>77,141</b>	<b>168,182</b>	<b>369,715</b>	<b>127,953</b>	<b>1,080,364</b>	<b>2,333,578</b>	<b>1,130,652</b>	<b>58</b>	<b>267</b>	<b>100,382</b>	<b>518,330</b>	<b>1,150,793</b>

<sup>1</sup> Confidential data.



## EXPLANATORY NOTES

With the publication of the results of the 1962 Census of Manufactures, the Bureau has completed a major revision in the classification and concept of its annual census of manufacturing establishments. Because of its size and complexity, this project had to be carried out in three stages. The first stage was the change in classification and the results of the 1960 Census, together with the re-compilation of the 1957, 1958 and 1959 Censuses were published in the 1960 reports on the basis of the revised Standard Industrial Classification. This part of the project was confined entirely to a re-coding of existing reporting units. The second stage consisted of the implementation of the new definition of the reporting unit i.e. "establishment" as it applied to **manufacturing activities** of manufacturing establishments (See following note on "Establishment"). Results of the 1961 Census reflected this change in concept and, in order to provide comparability of data for recent years, this report contains principal statistics on the basis of the new establishment definition for years back to 1957.

The third stage which was the extension of the definition of the establishment to cover **total activities** of manufacturing establishments is reflected in the statistics for 1961 and 1962 contained in this report. This full implementation of the new definition of the establishment has resulted in an extension of the data to non-manufacturing activities of manufacturing establishments and in additional changes in the 1961 statistics of manufacturing activities. Statistics on manufacturing activities will continue to be shown separately as in the past but, beginning with 1961, data on all operations (total activity) of manufacturing establishments will also be given. By definition "total activity" relates to all operational data and excludes such non-operational items as rent, interest and dividends. In addition, statistics on man-hours paid will be included as part of the regular series of industry statistics. For many industries, adjustments and revisions were made to the 1961 data on manufacturing activities which were published during the second stage to bring them in line with reporting procedures followed in the 1962 Census and to reflect the final application of the new concept. The 1961 statistics are shown in this publication in both their original and revised forms in order to provide a link with the immediate past. A more complete account of recent changes and additions and brief descriptions of the principal industry statistics are given in following sections of these notes.

### Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures and applied to the results of the 1957, 1958 and 1959 censuses provides for a breakdown of the manufacturing universe into 140 industries arranged in 20 major groups.

Reporting establishments are classified or allotted to specific industries in the classification system on the basis of the value of principal products made or shipped.

Full details concerning the revised classification system are contained in the Standard Industrial

Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics.

### Establishment

The reporting unit in the Census of Manufactures is the **establishment**. The majority of establishments are firms, but many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described below.

Beginning with the 1961 Census of Manufactures the establishment is defined as follows:

"The smallest unit which is a separate operating entity capable of reporting all 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,  
Inventories,  
Shipments of sales."

Following is a description of the main features of the new establishment concept introduced in the 1961 Census, how they differ from those of the old "activity" concept and the steps taken to correct for breaks in continuity.

(a) The establishment is to be distinguished from smaller subdivisions or departments which do not have records that permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in activities which were classifiable to different industries. Beginning with 1961, separate reports for such activities are required only in cases where accounting records can provide the necessary input and output elements of principal statistics. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.<sup>1</sup>

(b) A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were primarily engaged in manufacturing. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics.<sup>1</sup>

<sup>1</sup> Most of these adjustments were made when the results of the 1961 Census were being compiled. Since publication of these results in the 1961 reports additional adjustments were made to the 1961 data, as noted earlier, and these are reflected, where applicable, in the revised 1961 statistics contained in this report.



Again, adjustments were made to reflect the removal of such reporting units for the period 1957-60. These reporting units are now listed as establishments in other Bureau surveys, such as Wholesale Trade, Construction etc. This has resulted in a somewhat smaller universe represented by the Census of Manufactures. In terms of overall 1960 Census results, the number of establishments transferred to other industries totalled 2,786 or 8% but these represented only 0.7% of total employment and of total value of shipments of manufactured products. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed by the Industry Division for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

(c) A manufacturing establishment may be, and often is, engaged in other activities in addition to its principal manufacturing activity. Prior to 1961 the main emphasis in the Census of Manufactures was on manufacturing activity. Beginning with 1961, each establishment reports on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services etc.) are requested separately. The 1962 reports contain principal statistics on total activities of manufacturing establishments for 1961 and 1962 with the main elements of manufacturing activity shown separately as in the past. It should be noted that the statistics for separate activities are not completely consistent. Some respondents cannot distinguish in their records materials, shipments and inventories relating to own manufacturing activities from those relating to goods not of their own manufacture or to other activities and can report operational data in total only under manufacturing activity. This situation has always existed, however, and is not considered important enough to invalidate the use of the data in the measurement of manufacturing as an "activity". The values assigned by the respondent to materials and shipments of own manufactured goods include costs in varying degrees that relate to internal (to the establishment) transportation, warehousing and selling activities, but it is not possible to make adjustments to arrive at a uniform valuation for manufacturing activity only; although valuation at the establishment "boundary" must be accepted, the items valued under manufacturing activities still relate, in most cases, to "goods of own manufacture". In the case of employment only data on manufacturing production workers and manufacturing man-hours can be assigned, in total, to manufacturing activity; administrative and office employees can seldom be allocated to separate 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.

(d) Additional changes resulted from intensive editing and follow-up consistent with the introduction of the new concept. An example of such changes is the provision for the elimination, in total, of sales taxes and outward transportation charges from value of shipments. Prior to 1961, although the value of shipments for each product was requested excluding taxes and transportation charges, no allowance had been made for the reporting of these items in total when the respondents' records did not permit their deduction from the values of the individual products. Another example is a change in the valuation of shipments where, prior to 1961, a manufacturing company operating warehouses or sales outlets was reporting value of shipments in terms of an estimated manufacturer's price in accordance with the old activity concept, even though his records were not kept on this basis. Since the accounting boundary in such cases extends to distribution operations, the respondent was instructed in 1961 to report shipments at the final selling price in order to obtain more realistic and accurate data.<sup>2</sup> Adjustments were made to the value of shipments for the period 1957-60 to reflect such changes and maintain continuity of the shipments data. Since no actual data to make these corrections were available for base years, 1961 adjustment ratios were applied to the previous years for each industry affected, on the assumption that the valuation changes in 1961 applied in equal proportions to the preceding period.<sup>3</sup>

(e) The new concept also demands that inventories held apart from plant be included with plant inventories if establishment boundaries extend to warehouses and sales outlets. Prior to 1961, compilations took into account only the inventories held at plant. In this case, however, most of the missing data were available from supplementary questions in the Annual Census and from the Monthly Inventories and Shipments Survey and actual corrections could be made for previous years.

(f) Prior to 1961 the Census of Manufactures did not have complete coverage of head and administrative offices and had never surveyed separate sales offices, warehouses or laboratories operated by manufacturing firms. Beginning with the 1961 survey, complete coverage of these auxiliary units

<sup>2</sup> Some manufacturing firms operate sales branches or selling warehouses as separate sales establishments for which complete accounting records of receipts, expenses, employment and sales are maintained. In such cases the plants, in effect, "sell" to the sales outlets on much the same basis as they would to independent buyers. The value of plant shipments is based on factory prices and the "boundary" of the manufacturing establishment does not extend beyond the plant. The sales outlets in such cases constitute separate sales establishments and are classified to wholesale or retail trade. Some sales outlets of manufacturing firms, although they physically handle products of the plants, do not maintain separate accounts and are generally treated for statistical purposes as extensions of manufacturing operations. Special arrangements were made for separate reporting in a few cases where the treatment of such outlets as manufacturing extensions would seriously affect the significance of statistics for particular manufacturing and trade industries.

<sup>3</sup> See footnote 1.



was effected. In the past the employment and salaries and wages of those head and administrative offices that were surveyed were either coded in total to the industry in which the greatest portion of the company's manufacturing activities was classified or else, in the case of certain large multi-unit firms with establishments in several industries, were pro-rated among the different industries involved. Beginning with the revised 1961 statistics, all head offices and auxiliary units are covered and are processed according to the methods described below.

### 1. Single-Establishment Companies

In the great majority of cases central administrative and executive personnel of companies consisting only of one establishment are generally located at the site of the manufacturing plant and are automatically included in the plant reports. Where head offices and auxiliary units are geographically separate from plant locations and employ a sizeable number of workers they are surveyed on special questionnaires.

Separately located head offices, sales offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments<sup>4</sup> for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

### 2. Multi-Establishment Companies

In the case of companies with more than one establishment the following rules are applied:

(i) Where all the establishments of a company are classified to the same (three-digit) industry, the head office and other auxiliary units are coded to that same industry.

(ii) Where the establishments of a company are not all classified to the same (three-digit) industry but are coded to different industries, or industries in different industry groups or even different divisions of the Standard Industrial Classification, the inclusion of data for head office and auxiliary units in any one of the (three-digit) industries concerned would distort the relationship between items of principal statistics. In such cases, the auxiliary units are coded at the group (two-digit) level in tabulations of industry statistics. Where multi-establishment companies cut across group or major division lines of the Classification, the head office and auxiliary units will be coded to the (two-digit) industry group in which the major part of the company's operations are classified. Although this may

result in some distortion of (two-digit) industry group statistics it will eliminate distortion within groups as it will leave statistics at the (three-digit) industry level free of these company-wide data.

### Period Covered

Respondents are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. However, the data on employees, salaries, wages and man-hours are requested on a calendar year basis in all cases.

When establishments are operated for only a portion of a year, a report is required covering the period of operation.

### Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in 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. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

### Number of Establishments

The number of establishments represents the number of operating units (accounting entities as per the new definition of the establishment) for which separate reports are submitted. Head offices located apart from establishments and which are surveyed separately and separate sales and administrative auxiliaries that are treated as extensions of manufacturing activities are not included in the establishment count. However, the operational statistics (employment, salaries etc.) of such auxiliary units which are coded at the "three-digit" level are included in the principal statistics of industries coded at the same level; those units coded at the "two-digit" level are included with the statistics for groups of industries.

### Employees

As noted above, the number of working owners and partners are excluded from the number of employees, beginning with the revised 1961 statistics. This change brings the definition of "employees" in the Census of Manufactures in line with that of "employees" in the Bureau's monthly Employment Survey and with that of "paid workers" in the Bureau's Labour Force Survey. For purposes of

<sup>4</sup> See footnote 2 for exceptions.

historical comparisons, the number of working owners and partners should be added to total employees (beginning with the revised 1961 data) in order to correspond with the figure of "total employees" published in previous reports concerned with the Annual Census of Manufactures.

In addition to production and related workers engaged in manufacturing activities, total employees include administrative, office, sales and distribution workers as well as any production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment by its own employees (when these are treated as a separate work force) or logging (mostly in connection with sawmills or planing mills). Number of employees represents as closely as possible equivalent annual full-time employment. Adjustments are made when reported figures indicate the existence of part-time or seasonal employment.

Administrative and office employees include all executive and supervisory officials such as presidents, vice-presidents, controllers, secretaries, treasurers etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical etc. Sales and distribution workers include office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truck drivers and their helpers, etc. They exclude persons working on a commission basis who are not considered regular employees.

Production and related workers in manufacturing activities include, in addition to those engaged in processing and assembling, those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees in related activities such as maintenance, repair, janitorial and watchman services. Working foremen doing similar work to that of employees they supervise are also included. Production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment, logging employees or outside piece-workers employed in certain industries are excluded from the number of production and related workers but are part of the total number of employees in those industries.

Production and related workers 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 twelve. This procedure is followed even though the plant did not operate in all months in order to derive equivalent annual full-time employment. The numbers are somewhat affected by turn over, in that employment is overstated when an employee changes employment within the same industry during a pay period. Other categories of workers are reported in the form of annual averages. Figures on employment and man-hours refer to the calendar year whether or not some establishments report other data on a financial year basis.

Man-hours of production and related workers in manufacturing activities 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.). 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.

### Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, **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 workers' earnings. Payments for overtime are included.

Wages refer to amounts paid to production and related workers engaged in manufacturing operations as defined above. Salaries refer to amounts paid to all other categories of employees including relatively small numbers of production workers engaged in construction and extractive operations or who are employed as outside piece-workers. Figures on salaries and wages refer to the calendar year whether or not some establishments reported other data on a financial year basis.

### 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 cost total.** Values represent laid-down cost at the establishment including freight, duty etc.

### Materials and Supplies

(a) Used in 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. The statistics represent only commodity items or physical goods (costs 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. Respondents are required to report materials and supplies **used not purchased.** 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.

### **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 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. (See notes on "Establishment").

Such shipments are net of returned goods, and value figures at the establishment exclude discounts, returns, allowances, sales taxes and excise duties, returnable containers, and charges for outward transportation by common or contract carriers. Transportation or delivery expenses incurred by the reporting establishments' own carriers are not deducted.

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 form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

### **Value Added**

#### **(a) By manufacturing activities**

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

#### **(b) By total activities**

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost of goods purchased for re-sale and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture plus other revenue, adjusted for changes in the value of inventories of goods purchased for re-sale.

"Value added" is sometimes referred to as 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 in 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.

### **Short Forms**

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking for only a limited amount of detail. For purposes of publication, missing data were estimated on the basis of appropriate ratios. Beginning with the 1959 census, the general limit for short forms was raised from \$50,000 (the limit used since 1949) to \$100,000 value of shipments and a new medium form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

Prior to 1961, the short form was limited to a question on the principal items of factory shipments. In the 1961 and 1962 censuses, in addition to the question on shipments of goods of own manufacture, general questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity and inventories, were estimated by using ratios based on the change in the value of shipments reported in 1961 and 1962. This was done to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportions of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

Beginning with the 1963 census, general questions on total purchases of materials, fuel and electricity and on total inventory were added on the short forms. The two questions, however, were designed so that the data can be easily derived from respondents' regular accounting records. This will permit a complete tabulation of principal statistics without the necessity of estimating missing items and will result in increased accuracy for rural area statistics where small firms account for a relatively important part of industrial output.

The addition of extra questions on the short form in recent years has also permitted an increase in the cut-off limits for short forms in many industries. This has meant that many more firms are now receiving the short form instead of the long or medium form. It has also resulted in the withdrawal of the medium form in a number of industries, thus further simplifying collection and tabulation procedures.

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3