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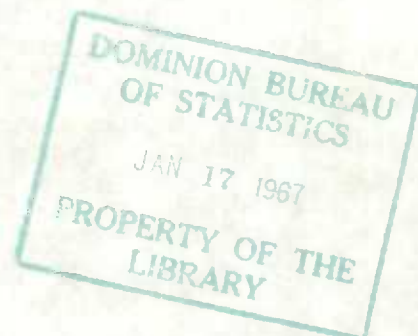
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ANNUAL



# SHIPBUILDING AND REPAIR 1964

ANNUAL CENSUS  
OF MANUFACTURES



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## SHIPBUILDING AND REPAIR

1964

For statistical purposes the industry titled Shipbuilding and Repair in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in building and repairing all types of ships of more than 5 tons displacement.

A comparison of 1964 totals with those for 1963 indicates that the value of shipments increased by 12 per cent, the total cost of materials used increased by 18 per cent and value added increased by 12 per cent. The ratio of materials used to value of production was 42 per cent in 1964 in comparison to 41.3 per cent in 1963.

It should be noted that there is an additional firm included in the totals for 1964.

The value of shipbuilding and repairs accounted for 77 per cent of the total value of production during 1964. Some of the other products manufactured by firms classified to this industry were hydro electric equipment, miscellaneous machinery, subway cars, furnaces, railway cars, pulp and paper machinery and structural steel.

### SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

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 .....	63	12,113	24,559	50,245	1,794	49,174 <sup>f</sup>	138,129	87,131 <sup>f</sup>	x	x	15,039	64,676	88,405 <sup>f</sup>
1962													
Totals .....	62	14,532	31,518	67,407	2,366	67,074 <sup>f</sup>	172,496	103,085 <sup>f</sup>	x	x	17,620	82,120	103,444 <sup>f</sup>
1963													
Newfoundland .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Nova Scotia .....	18	2,080	4,465	8,280	382	7,172	18,965	11,411	x	x	2,332	9,524	11,323
New Brunswick .....	3	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	9	5,669	12,618	28,309	899	36,861	88,826	51,033	—	—	7,262	35,311	51,327
Ontario .....	11	1,934	4,045	8,774	302	15,220	33,229	17,727	x	x	2,228	10,357	17,700
Manitoba .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia .....	20	3,218	6,757	17,986	389	18,637	50,621	31,586	—	—	3,805	21,548	32,560
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	64	14,835	32,145	71,372	2,351	84,763 <sup>f</sup>	208,590	121,455 <sup>f</sup>	5	19	18,011	87,014	122,513 <sup>f</sup>
1964													
Newfoundland .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Prince Edward Island .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Nova Scotia .....	17	2,139	4,561	9,190	399	8,087	23,912	15,426	x	x	2,457	10,947	15,333
New Brunswick .....	3	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	10	5,767	12,435	29,838	805	43,550	108,802	64,447	—	—	7,319	37,461	64,759
Ontario .....	12	2,205	4,547	10,167	283	18,103	37,781	19,401	x	x	2,504	11,748	19,345
Manitoba .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—	—	—	—	—	—	—	—
British Columbia .....	19	2,482	5,156	14,373	325	17,950	42,729	24,455	—	—	3,072	18,042	25,430
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	65	13,970	29,738	69,907	2,067	96,011	234,393	136,322	x	x	17,137	86,870	138,167



TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

Size group	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	
<b>1963</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	6	34	68	112	9	162	382	211	5	19	46	156	211
50,000 " 99,999 .....													
100,000 " 199,999 .....													
200,000 " 499,999 .....													
500,000 " 999,999 .....	12	770	1,595	3,516	124	3,133	8,759	5,489	-	-	860	4,045	6,031
1,000,000 " 4,999,999 .....	12	1,625	3,372	6,794	262	10,868	23,953	12,845	-	-	1,895	8,101	12,850
5,000,000 and over .....	11	11,841	25,936	58,710	1,841	68,026 <sup>r</sup>	169,034	99,134 <sup>r</sup>	-	-	14,534	71,894	99,608 <sup>r</sup>
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>64</b>	<b>14,835</b>	<b>32,145</b>	<b>71,372</b>	<b>2,351</b>	<b>84,763<sup>r</sup></b>	<b>208,590</b>	<b>121,455<sup>r</sup></b>	<b>5</b>	<b>19</b>	<b>18,011</b>	<b>87,014</b>	<b>122,513<sup>r</sup></b>
<b>1964</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	5	28	54	81	5	79	247	163	x	x	35	117	163
50,000 " 99,999 .....													
100,000 " 199,999 .....													
200,000 " 499,999 .....													
500,000 " 999,999 .....	17	791	1,742	3,842	168	4,042	11,980	7,770	-	-	913	4,581	7,767
1,000,000 " 4,999,999 .....	14	1,734	3,471	7,600	246	11,901	24,978	12,837	-	-	2,020	9,043	13,305
5,000,000 and over .....	11	10,982	23,574	56,663	1,572	78,269	192,521	112,680	-	-	13,650	70,978	114,032
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>65</b>	<b>13,970</b>	<b>29,738</b>	<b>69,907</b>	<b>2,067</b>	<b>96,011</b>	<b>234,393</b>	<b>136,322</b>	<b>x</b>	<b>x</b>	<b>17,137</b>	<b>86,870</b>	<b>138,167</b>

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

Size group	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	
<b>1963</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	4	15	30	45	4	97	207	105	5	19	21	67	105
50,000 " 99,999 .....													
100,000 " 199,999 .....													
200,000 " 499,999 .....													
500,000 " 999,999 .....	12	535	1,071	2,137	77	3,648	7,907	4,183	-	-	439	1,839	2,401
1,000,000 " 4,999,999 .....	12	1,062	2,226	5,040	173	6,349	15,271	8,755	-	-	1,224	5,902	8,781
5,000,000 and over .....	5	1,504	3,111	6,459	283	7,961	19,258	10,982	-	-	1,810	7,901	10,959
Head offices, sales offices and auxiliary units .....	10	11,209	24,682	55,740	1,715	64,213 <sup>r</sup>	160,913	94,985 <sup>r</sup>	-	-	13,749	68,171	95,458 <sup>r</sup>
...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>64</b>	<b>14,835</b>	<b>32,145</b>	<b>71,372</b>	<b>2,351</b>	<b>84,763<sup>r</sup></b>	<b>208,590</b>	<b>121,455<sup>r</sup></b>	<b>5</b>	<b>19</b>	<b>18,011</b>	<b>87,014</b>	<b>122,513<sup>r</sup></b>
<b>1964</b>													
Under \$10,000 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999 .....	4	18	36	51	4	66	181	112	x	x	25	77	112
50,000 " 99,999 .....													
100,000 " 199,999 .....													
200,000 " 499,999 .....													
500,000 " 999,999 .....	10	234	471	938	46	1,135	2,623	1,442	-	-	271	1,144	1,465
1,000,000 " 4,999,999 .....	18	747	1,541	3,285	126	5,535	12,077	6,416	-	-	881	4,079	6,339
5,000,000 and over .....	14	1,254	2,619	5,771	192	7,324	17,411	9,903	-	-	1,438	6,718	10,401
Head offices, sales offices and auxiliary units .....	6	2,465	4,969	12,763	350	18,095	37,956	19,511	-	-	3,061	16,012	19,873
...	8	9,177	19,945	46,859	1,339	63,627	163,516	98,550	-	-	11,368	58,522	99,517
...	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>65</b>	<b>13,970</b>	<b>29,738</b>	<b>69,907</b>	<b>2,067</b>	<b>96,011</b>	<b>234,393</b>	<b>136,322</b>	<b>x</b>	<b>x</b>	<b>17,137</b>	<b>86,870</b>	<b>138,167</b>

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

Size group	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	
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	4	15	30	45	4	97	207	105	5	19	21	67	105
25,000 " 49,999	7	115	239	353	15	414	962	532	-	-	133	433	532
50,000 " 99,999	13	307	616	1,161	77	1,646	3,457	1,737	-	-	366	1,411	1,803
100,000 " 199,999	12	535	1,071	2,137	77	3,648	7,907	4,183	-	-	606	2,610	4,150
200,000 " 499,999	13	1,150	2,396	5,477	179	6,783	15,885	8,930	-	-	1,326	6,420	9,506
500,000 " 999,999	5	1,504	3,111	6,459	283	7,961	19,258	10,982	-	-	1,810	7,901	10,959
1,000,000 " 4,999,999	10	11,209	24,682	55,740	1,715	64,213 <sup>r</sup>	160,913	94,985 <sup>r</sup>	-	-	13,749	68,171	95,458 <sup>r</sup>
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	64	14,835	32,145 <sup>r</sup>	71,372	2,351	84,763 <sup>r</sup>	208,590	121,455 <sup>r</sup>	5	19	18,011	87,014	122,513 <sup>r</sup>
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	4	18	36	51	4	66	181	112	x	x	25	77	112
25,000 " 49,999	4	57	119	179	8	189	491	294	-	-	67	229	294
50,000 " 99,999	11	252	509	999	49	1,175	2,761	1,537	-	-	297	1,233	1,591
100,000 " 199,999	18	747	1,541	3,285	126	5,535	12,077	6,416	-	-	881	4,079	6,380
200,000 " 499,999	13	1,173	2,456	5,331	186	6,826	16,250	9,244	-	-	1,343	6,193	9,207
500,000 " 999,999	7	2,546	5,133	13,203	356	18,593	39,118	20,170	-	-	3,156	16,537	21,068
1,000,000 " 4,999,999	8	9,177	19,945	46,859	1,339	63,627	163,516	98,550	-	-	11,368	58,522	99,517
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	65	13,970	29,738	69,907	2,067	96,011	234,393	136,322	x	x	17,137	86,870	138,167

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

Size group	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	
1963													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	-
5- 14 employed	8	52	104	187	15	365	749	369	5	19	69	261	369
15- 49	22	571	1,133	2,136	109	3,319	7,367	3,943	-	-	669	2,661	4,006
50- 99	12	724	1,491	3,247	115	3,740	9,791	5,923	-	-	801	3,701	5,886
100-199	8	864	1,785	4,043	134	5,282	11,709	6,313	-	-	1,020	4,873	6,893
200-499	3	783	1,696	3,050	137	4,030	9,939	5,772	-	-	918	3,624	5,751
500 employed and over	11	11,841	25,936	58,710	1,841	68,026 <sup>r</sup>	169,034	99,134 <sup>r</sup>	-	-	14,534	71,894	99,608 <sup>r</sup>
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	64	14,835	32,145 <sup>r</sup>	71,372	2,351	84,763 <sup>r</sup>	208,590	121,455 <sup>r</sup>	5	19	18,011	87,014	122,513 <sup>r</sup>
1964													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	-
5- 14 employed	6	36	74	116	8	129	383	246	x	x	48	170	246
15- 49	25	663	1,327	2,682	117	4,452	10,182	5,613	-	-	775	3,344	5,662
50- 99	12	701	1,515	3,462	128	3,624	10,313	6,562	-	-	797	4,012	7,072
100-199	8	827	1,679	3,946	116	5,398	11,771	6,263	-	-	976	4,745	6,225
200-499	3	761	1,570	3,037	126	4,138	9,222	4,958	-	-	891	3,621	4,931
500 employed and over	11	10,982	23,574	56,663	1,572	78,269	192,522	112,660	-	-	13,650	70,978	114,032
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	65	13,970	29,738	69,907	2,067	96,011	234,393	136,322	x	x	17,137	86,870	138,167

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

Type of organization	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	
<b>1963</b>													
Individual ownerships .....	64	14,835	32,145	71,372	2,351	84,763 <sup>r</sup>	208,590	121,455 <sup>r</sup>	5	19	18,011	87,014	122,513 <sup>r</sup>
Partnerships .....													
Incorporated companies .....													
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>64</b>	<b>14,835</b>	<b>32,145</b>	<b>71,372</b>	<b>2,351</b>	<b>84,763<sup>r</sup></b>	<b>208,590</b>	<b>121,455<sup>r</sup></b>	<b>5</b>	<b>19</b>	<b>18,011</b>	<b>87,014</b>	<b>122,513<sup>r</sup></b>
<b>1964</b>													
Individual ownerships .....	65	13,970	29,738	69,907	2,067	96,011	234,393	136,322	x	x	17,137	86,870	138,167
Partnerships .....													
Incorporated companies .....													
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>65</b>	<b>13,970</b>	<b>29,738</b>	<b>69,907</b>	<b>2,067</b>	<b>96,011</b>	<b>234,393</b>	<b>136,322</b>	<b>x</b>	<b>x</b>	<b>17,137</b>	<b>86,870</b>	<b>138,167</b>

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
<b>\$'000</b>						
<b>Output</b>						
1. Shipments and other revenue .....	208,590	234,393	3,602	6,128	212,192	240,521
Inventories— Goods of own manufacture:						
Add closing— Goods in process .....	...	...	...	...	...	...
Finished goods .....	87	90	...	...	87	90
Deduct opening— Goods in process .....	...	...	...	...	...	...
Finished goods .....	108	84	...	...	108	84
2. Net inventory change .....	(21)	6	...	...	(21)	6
3. Gross output (1 + 2) .....	208,569	234,399	3,602	6,128	312,171	240,527
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	1,885	2,179	1,885	2,179
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	124	180	124	180
Deduct closing .....	...	...	180	146	180	146
5. Cost of goods sold (not of own manufacture) .....	...	...	1,829	2,213	1,829	2,213
6. Materials, supplies, etc. ....	84,763 <sup>r</sup>	96,011	715	2,069	85,478 <sup>r</sup>	98,080
7. Fuel and electricity .....	2,351	2,067	...	...	2,351	2,067
8. Gross input (5 + 6 + 7) .....	87,114 <sup>r</sup>	98,078	2,544	4,282	89,658 <sup>r</sup>	102,360
Value added (3 - 8) .....	121,455 <sup>r</sup>	136,322	1,058	1,845	122,513 <sup>r</sup>	138,167



TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1963															
Newfoundland .....	x	-	-	-	x	-	-	-	x	-	x	-	x	-	x
Prince Edward Island .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Nova Scotia .....	2,071	9	-	-	187	62	3	-	2,261	71	8,280	-	1,222	22	9,524
New Brunswick .....	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
Quebec .....	5,663	6	-	-	1,341	237	14	1	7,018	244	28,309	-	6,946	56	35,311
Ontario .....	1,929	5	-	-	231	62	1	-	2,161	67	8,774	-	1,576	6	10,357
Manitoba .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia .....	3,212	6	-	-	434	140	9	4	3,655	150	17,986	-	3,484	79	21,548
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	14,804	31	-	-	2,580	562	29	5	17,413	598	71,372	-	15,471	170	87,014
1964															
Newfoundland .....	x	-	-	-	x	-	-	-	x	-	x	-	x	-	x
Prince Edward Island .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Nova Scotia .....	2,132	7	-	-	249	64	4	1	2,385	72	9,190	-	1,739	18	10,947
New Brunswick .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec .....	5,761	6	16	-	1,296	227	11	2	7,084	235	29,838	147	7,423	53	37,461
Ontario .....	2,198	7	-	-	233	65	1	-	2,432	72	10,167	-	1,575	6	11,748
Manitoba .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia .....	2,475	7	-	-	458	115	14	3	2,947	125	14,373	-	3,591	78	18,042
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	13,938	32	16	-	2,593	522	30	6	16,577	560	69,907	147	16,661	156	86,870

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	15,309	29	13,441	32
February .....	15,427	29	11,950	32
March .....	15,849	29	12,390	32
April .....	15,245	28	12,911	31
May .....	14,817	31	14,093	32
June .....	14,343	29	14,388	31
July .....	13,753	33	12,462	31
August .....	12,376	32	12,916	31
September .....	13,470	30	13,427	28
October .....	12,990	36	13,827	29
November .....	12,633	34	13,958	29
December .....	12,173	36	13,465	30
Averages .....	14,036	31	13,266	31
Establishments reporting annual averages (small establishments only) .....	768	-	672	1
Average for all establishments .....	14,804	31	13,938	32

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total Inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	x	x	—	x	—	x
Prince Edward Island .....	x	x	—	x	—	x
Nova Scotia .....	1,470	462	1	1,933	110	2,043
New Brunswick .....	x	—	—	x	—	x
Quebec .....	5,076	10,537	—	15,613	—	15,613
Ontario .....	1,804	909	82	2,795	—	2,795
Manitoba .....	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—
British Columbia .....	4,205	1,480	1	5,686	70	5,757
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	13,754	13,421	84	27,259	180	27,439
Closing:						
Newfoundland .....	x	x	—	x	—	x
Prince Edward Island .....	x	x	—	x	—	x
Nova Scotia .....	1,200	1,059	1	2,260	84	2,344
New Brunswick .....	x	—	—	x	—	x
Quebec .....	5,373	12,802	—	18,175	—	18,175
Ontario .....	1,933	3,474	88	5,495	—	5,495
Manitoba .....	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	—	—	—	—	—	—
British Columbia .....	4,942	860	1	5,804	62	5,866
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	14,746	18,233	90	33,068	146	33,214

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	6,818	86	4,173
(b) Imported .....	"	3,077	42	250
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	10	—	—
Lignite coal .....	"	259	3	110
Coke .....	"	145	6	44
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	334,595	123	360,609
Fuel oil including kerosene or coal oil .....	"	7,910,503	779	5,077,365
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	116,342	20	134,849
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	42,454	42	101,070
Other fuel .....	...	...	1	...
Electricity purchased .....	kwh.	78,206,322	1,103	99,187,179
Steam purchased .....	...	...	2	...
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	145	...	...
3. All establishments:				
<b>Total fuel and electricity used .....</b>	<b>...</b>	<b>2,351</b>	<b>...</b>	<b>2,067</b>

TABLE 12. Materials and Supplies—Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
<b>1. Materials used:</b>				
Iron:				
Pig iron..... net ton	557	36	440	28
Castings, gray and malleable..... "	2,422	931	3,998	1,705
Castings, steel..... "	960	277	320	202
Steel (other than special alloy):				
Bars..... "	8,377	1,853	9,585	2,275
Plates..... "	91,034	13,263	92,126	13,955
Sheets:				
Plain..... "	2,128	359	2,856	448
Galvanized..... "	522	104	600	120
Strip..... "	465	71	702	108
Structural shapes..... "	16,909	2,714	20,041	3,334
Wire..... "	1,337	292	1,794	398
Alloy steel in all forms.....	...	1,079	...	1,362
Scrap iron and steel of all kinds..... net ton	1,540	32	520	15
Iron and steel pipe and fittings.....	...	3,514	...	2,541
Other iron and steel.....	...	762	...	911
Non-ferrous metals:				
Aluminum:				
Castings..... pound	20,987	29	75,871	106
Sheet..... "	384,476	202	356,933	187
Other forms..... "	339,109	236	188,209	145
Brass and bronze..... "	583,781	466	703,302	628
Copper:				
Sheet..... "	228,085	192	558,787	460
Wire..... "	46,741	43	109,105	84
Other forms..... "	442,757	360	79,420	55
Lead..... "	115,756	25	196,462	45
Nickel..... "	16,916	15	18,847	15
Tin..... "	5	--	52	--
Zinc..... "	234,469	61	817,337	267
Babbit metals and solders..... "	61,392	78	280,638	559
Other non-ferrous metals..... "	...	20	...	38
Other materials and supplies:				
Paint and varnishes..... "	...	1,021	...	1,007
Lumber..... M ft. b.m.	7,617	935	9,318	1,178
Timber..... "	2,177	302	1,079	170
Engines purchased.....	...	9,218	...	7,052
Boilers purchased.....	...	588	...	402
Electrical equipment purchased.....	...	5,052	...	6,050
Auxiliary equipment purchased.....	...	7,357	...	9,161
All other materials and components used <sup>1</sup> .....	...	28,893 <sup>r</sup>	...	37,636
<b>2. Containers and other packaging materials and supplies used.....</b>	...	19	...	7
<b>3. Operating, maintenance and repair supplies used (excluding fuel).....</b>	...	2,974	...	2,672
<b>4. Amount paid out to others for work done on materials owned by establishments....</b>	...	1,393	...	688
<b>Totals.....</b>	...	<b>84,763<sup>r</sup></b>	...	<b>96,011</b>

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$5,332,300 in 1963 and \$4,562,380 in 1964.



TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	1963		1964	
	Number of vessels delivered	Value of deliveries	Number of vessels delivered	Value of deliveries
		\$'000		\$'000
Naval vessels, all types .....	..	1	..	1
Commercial vessels:				
Cargo and cargo-passenger vessels <sup>2</sup> .....	13	53,621	10	30,819
Dredges .....	—	—	—	—
Ferries <sup>3</sup> .....	4	12,211	5	10,523
Fishing boats .....	67	10,895	73	15,000
Passenger ships .....	—	—	—	—
Scows and barges .....	33	5,363	50	9,112
Tankers .....	..	1	..	1
Tugs .....	25	6,244	11	1,806
All other commercial vessels .....	17	27,327	16	37,734
Small craft .....	13	179	21	184
<b>Total all vessels (including small craft) .....</b>	<b>172</b>	<b>115,840</b>	<b>186</b>	<b>105,178</b>
			Value	
			1963	1964
			\$'000	
Other production:				
Work done during year on undelivered vessels and on reconditioning and conversion .....			78,471	73,734
Other work done but not completed at year-end .....			..	10,518
Repairs done to vessels during the year .....			43,698	46,740
Miscellaneous products (boilers, engines, etc.) .....			35,320	50,319
<b>Total value of deliveries and other production .....</b>			<b>273,329</b>	<b>287,012</b>
Less value of work done in previous years on vessels delivered in current year and on reconditioning and conversion .....			(64,675)	(52,615)
Less adjustments for value of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above .....			(64)	(3)
<b>Total production for year .....</b>			<b>208,590</b>	<b>234,393</b>

<sup>1</sup> Included with "All other commercial vessels".

<sup>2</sup> Represents gross tonnage of 127,787 tons for 1963 and 55,118 tons for 1964.

<sup>3</sup> Represents gross tonnage of 4,070 tons for 1963 and 2,568 tons for 1964.

TABLE 14. Value of Shipbuilding, 1955-64

Year	Value of ships delivered during the year	Less value of work done in previous years delivered in current year <sup>1</sup>	Add value of work done on ships not completed at year end <sup>1</sup>	Total value of new construction <sup>1</sup>	Value of ship repairs
1955 .....	63,479	42,350	46,841	67,970	42,074
1956 .....	67,645	41,098	43,774	70,320	42,857
1957 .....	108,164	73,544	52,444	87,064	45,091
1958 .....	81,498	53,840	49,706	77,364	43,744
1959 .....	144,922	107,054	33,729	71,597	45,097
1960 .....	76,075	34,287	27,662	69,450	45,149
1961 .....	44,221	23,996	42,461	62,687	44,732
1962 .....	73,366	32,605	62,647	103,408	36,548
1963 .....	115,840	64,675	78,471	129,636	43,698
1964 .....	105,177	52,615	73,734	126,296	46,763

<sup>1</sup> Includes value of work done on reconditioning and conversion.



# List of Establishments classified to This Industry, 1964

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
<b>Newfoundland:</b>	
Marystown Shipyards .....	Marystown
Newfoundland Shipyard Ltd. ....	Clarenville
<b>Prince Edward Island:</b>	
Bathurst Marine Ltd. ....	Georgetown
Charlottetown Marine Industries Ltd. ....	Charlottetown
<b>Nova Scotia:</b>	
Atlantic Shipbuilding Company Ltd. ....	Lunenburg
Collings, Wm. & Sons Ltd. ....	711 Barrington St., Halifax
Dominion Steel & Coal Corp. Ltd. ....	Barrington St., Halifax
Ferguson Industries Ltd. ....	Pictou
Hogan, T. & Co. Ltd. ....	121 Lower Water St., Halifax
Lunenburg Foundry & Engineering Ltd. ....	Lunenburg
McKay, W. C. & Sons Ltd. ....	Shelburne
McLeans Shipbuilding Ltd. ....	Mahone Bay
North Sydney Marine Railway Co. Ltd. ....	North Sydney
Pinaud's Yacht Yard Ltd. ....	Baddeck
Purdy Bros. Ltd. ....	67 Upper Water St., Halifax
Smith & Rhuland Ltd. ....	Lunenburg
Snyders Shipyard Ltd. ....	Dayspring
Sweeney, W. Lawrence .....	Yarmouth
Sydney Engineering & Dry Dock Co. Ltd., The .....	Sydney
Theriault, A. F. & Sons Ltd. ....	Meteghan River
Wagstaff & Hatfield Ltd. ....	Port Greville
<b>New Brunswick:</b>	
Le Chantier Naval Ltée. ....	Middle Caraquet
Saint John Shipbuilding & Dry Dock Co. Ltd. ....	Bayside Drive, East Saint John
Saint John Iron Works Ltd. ....	Vulcan St., Saint John
<b>Quebec:</b>	
Canadian Vickers Ltd. ....	4970 Notre Dame St. E., Montreal 4
Davie Brothers Ltd. ....	Lévis
Davie, Geo. T. & Sons Ltd. ....	Lauzon
Davie Shipbuilding Ltd. ....	Lauzon
Les Entreprises Maritimes Inc. ....	Gaspé
Marine Industries Ltd. ....	Tracy
McDonnell Ship Repairs Ltd. ....	815 Mill St., Montreal
Montreal Dry Docks Ltd. ....	1151 Mill St., Montreal
Talbot Hunter Engineering & Boiler Works Ltd. ....	170 St. Paul St., Quebec
Walsh, W. F., Ltd. ....	56 Prince St., Montreal
<b>Ontario:</b>	
Canadian Dredge & Dock Co. Ltd. ....	Kingston
Canadian Shipbuilding & Engineering Ltd. (Collingwood Shipyards Div.) ....	Collingwood
Canadian Shipbuilding & Engineering Ltd. (Kingston Shipyards Div.) ....	Kingston
Eriau Shipbuilding & Drydock Co. Ltd. ....	Eriau
Grant, J. A. & Sons .....	Port Colborne
Helghton, H. E. & Son Ltd. ....	Port Colborne
Marsh, E. G., Ltd. ....	Port Colborne
Port Arthur Shipbuilding Co. Ltd. ....	Port Arthur
Port Weller Dry Docks Ltd. ....	St. Catharines
Russel Brothers Ltd. ....	Owen Sound
Ship Repairs & Supplies Ltd. ....	80 Commissioners St., Toronto 2
Toronto Dry Dock Ltd. ....	170 Villiers St., Toronto
<b>British Columbia:</b>	
Alert Bay Shipyards Ltd. ....	Alert Bay
Ailed Shipbuilders Ltd. ....	145 West 1 Ave., Vancouver 10
B.C. Marine Shipbuilders Ltd. ....	Ft. of Victoria Drive N., Vancouver
Benson Bros. Shipbuilding Co. (1960) Ltd. ....	1705 W. Georgia St., Vancouver
Burrard Dry Dock Co. Ltd. ....	109 E. Esplanade St., North Vancouver
Burrard Iron Works Ltd. ....	235 Alexander St., Vancouver 4
Burrard Shipyard & Marine Ways Ltd. ....	1729 W. Georgia St., Vancouver
Celtic Shipyards Ltd. ....	7405 Blenheim St., Vancouver 13
Denman Shipyards Div. of Gulf Tug & Barge Ltd. ....	650 Denman St., Vancouver
McKay - Cormack Ltd. ....	130 Kingston St., Victoria
McKenzie Group of Companies, The .....	Dollarton
Star Shipyard (Mercers) Ltd. ....	61 Duncan St., New Westminster
Sterling Shipyards Ltd. ....	North End Victoria Dr., Vancouver
Tom Mac Shipyards Limited .....	1701 River Road, Richmond
Vancouver Tug & Barge Co. Ltd. ....	1881 W. Georgia St., Vancouver
Victoria Machinery Depot Co. Ltd. ....	33 Dallas Rd., Victoria
West Coast Salvage & Contracting Co. Ltd. ....	1199 West 6th Ave., Vancouver 9
Western Marine and Nanaimo Shipyard Ltd. ....	Nanaimo
Yarrows Limited .....	Esquimalt

# 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 1960, 1961 and 1962 industry publications. 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**

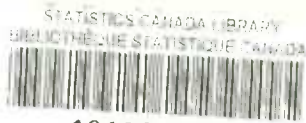
The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

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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