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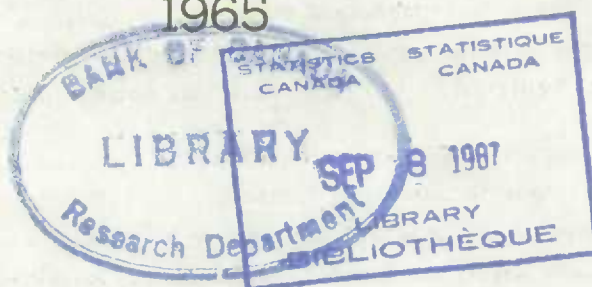
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# COMMERCIAL REFRIGERATION AND AIR CONDITIONING EQUIPMENT MANUFACTURERS

1965



## ANNUAL CENSUS OF MANUFACTURES

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## PUBLICATIONS

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## COMMERCIAL REFRIGERATION AND AIR CONDITIONING EQUIPMENT MANUFACTURERS

1965

For statistical purposes the industry titled Commercial Refrigeration and Air Conditioning Equipment Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing electric and non-electric commercial refrigerating equipment such as display cases, counters and frozen food storage cabinets; and refrigeration units for installation in custom or built-in refrigeration facilities.

The industry also includes establishments primarily engaged in manufacturing self-contained air conditioning units (except window type) and air conditioning equipment for installation in custom and built-in air conditioning systems.

Total employment increased by 234 persons and total salaries and wages by \$2,162,000. The total number of production employees increased by 176 and accounted for 71.4 per cent of total employment in this industry.

The ratio of cost of materials used to value of production was 54 per cent in 1965 whereas in 1964 it was 53 per cent and the ratio of manufacturing wages to value of production was 14.8 per cent in 1965 whereas in 1964 it was 15.7 per cent.

It should be noted that Table 13 covers the shipments of the firms classified to this industry whereas Table 14 gives the total value of shipments of specific items of Canadian manufacture and includes shipments of these items reported by firms classified to other S.I.C. industries.

### SYMBOLS

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

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



TABLE 1. Principal Statistics, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals .....	34	1,130	2,451	4,494	280	10,224	23,182	12,833	8	51	1,636	7,320	13,597
1962													
Totals .....	35	1,131	2,424	4,578	284	12,242	26,162	13,756	8	57	1,652	7,551	14,558
1963													
Totals .....	34	1,088	2,125	4,301	259	12,196	26,334	14,058	10	71	1,573	7,077	14,984
1964													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	8	146	305	536	42	1,757	3,978	2,250	3	21	240	1,041	2,284
Ontario .....	22	1,105	2,307	4,435	252	15,988	28,894	13,091	x	x	1,579	7,411	14,084
Manitoba .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	1	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	36	1,415	2,933	5,674	325	19,190	35,646	16,637	8	70	2,006	9,299	17,672
1965													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	1	x	x	x	x	x	x	x	—	—	x	x	x
Quebec .....	7	165	346	681	31	1,467	3,752	2,323	x	x	254	1,205	2,398
Ontario .....	24	1,268	2,695	5,732	336	23,551	41,182	18,077	3	18	1,799	9,294	18,886
Manitoba .....	2	x	x	x	x	x	x	x	—	—	x	x	x
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	1	x	x	x	x	x	x	x	—	—	x	x	x
British Columbia .....	2	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	37	1,591	3,364	7,207	394	26,603	48,043	22,077	9	71	2,240	11,461	22,945

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

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	
1964														
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
25,000 " 49,999 .....	3	7	14	30	5	72	169	95	2	12	10	41	102	
50,000 " 99,999 .....		6	49	97	185	15	413	774	353	2	18	58	226	365
100,000 " 199,999 .....		8	108	217	415	32	1,243	2,568	1,338	—	—	141	616	1,367
200,000 " 499,999 .....	9	255	547	1,213	61	3,231	6,544	3,313	4	40	360	1,793	3,420	
500,000 " 999,999 .....		10	996	2,058	3,832	213	14,231	25,591	11,538	—	—	1,437	6,623	12,417
1,000,000 " 4,999,999 .....		...	...	...	...	...	...	...	...	...	...	...	...	...
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals .....	36	1,415	2,933	5,674	325	19,190	35,646	16,637	8	70	2,006	9,299	17,672	
1965														
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—	
25,000 " 49,999 .....	3	8	16	33	3	64	150	85	1	11	11	45	85	
50,000 " 99,999 .....		7	68	137	283	21	459	974	482	3	18	78	334	527
100,000 " 199,999 .....		7	109	226	474	23	1,090	2,151	1,059	—	—	141	672	1,118
200,000 " 499,999 .....	6	150	321	795	39	2,468	4,872	2,489	5	42	207	1,172	2,495	
500,000 " 999,999 .....		14	1,256	2,663	5,622	309	22,522	39,896	17,962	—	—	1,803	9,237	18,720
1,000,000 " 4,999,999 .....		...	...	...	...	...	...	...	...	...	...	...	...	...
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...	
Totals .....	37	1,591	3,364	7,207	394	26,603	48,043	22,077	9	71	2,240	11,461	22,945	

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

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
1964													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	4	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....		20	39	64	11	127	271	137	2	12	24	85	156
50,000 " 99,999 .....		5	36	72	151	8	358	672	311	2	18	44	181
100,000 " 199,999 .....	7	93	196	400	32	1,413	2,431	1,032	—	—	122	571	1,063
200,000 " 499,999 .....	10	250	538	1,140	67	3,553	6,961	3,394	4	40	361	1,752	3,482
500,000 " 999,999 .....	5	253	500	984	57	2,998	6,088	2,960	—	—	393	1,890	3,745
1,000,000 " 4,999,999 .....	5	763	1,588	2,935	150	10,741	19,223	8,803	—	—	1,062	4,819	8,915
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	36	1,415	2,933	5,674	325	19,190	35,646	16,637	8	70	2,006	9,299	17,672
1965													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	3	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....		8	16	33	3	64	150	85	1	11	11	45	85
50,000 " 99,999 .....		7	68	137	283	21	459	974	482	3	18	78	334
100,000 " 199,999 .....	6	94	195	430	19	903	1,739	834	—	—	120	588	896
200,000 " 499,999 .....	7	137	316	663	41	4,168	6,602	2,454	—	—	216	1,170	2,650
500,000 " 999,999 .....	7	368	770	1,660	83	7,170	11,691	4,745	5	42	483	2,258	5,177
1,000,000 " 4,999,999 .....	7	916	1,931	4,139	226	13,839	26,887	13,477	—	—	1,332	7,065	13,610
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	37	1,591	3,364	7,207	394	26,603	48,043	22,077	9	71	2,240	11,461	22,945

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

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>1964</b>													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	3	7	14	30	5	72	169	95	2	12	10	41	102
25,000 " 49,999 .....		6	49	97	15	413	774	353	2	18	58	226	365
50,000 " 99,999 .....		7	93	196	32	1,413	2,431	1,032	—	—	122	571	1,063
100,000 " 199,999 .....		9	212	446	63	3,124	6,097	2,955	4	40	303	1,398	2,909
200,000 " 499,999 .....	5	223	467	897	46	3,067	5,714	2,581	—	—	315	1,437	2,729
500,000 " 999,999 .....	6	831	1,713	3,213	165	11,101	20,462	9,621	—	—	1,198	5,626	10,504
1,000,000 " 4,999,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>36</b>	<b>1,415</b>	<b>2,933</b>	<b>5,674</b>	<b>325</b>	<b>19,190</b>	<b>35,646</b>	<b>16,637</b>	<b>8</b>	<b>70</b>	<b>2,006</b>	<b>9,299</b>	<b>17,672</b>
<b>1965</b>													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	3	8	16	33	3	64	150	85	1	11	11	45	85
25,000 " 49,999 .....		6	54	110	19	382	796	394	3	18	60	242	394
50,000 " 99,999 .....		7	108	221	21	980	1,917	921	—	—	138	680	1,029
100,000 " 199,999 .....		6	96	215	33	3,562	5,561	2,004	—	—	153	782	2,023
200,000 " 499,999 .....	7	349	744	1,597	75	3,719	7,870	4,337	5	42	464	2,240	4,449
500,000 " 999,999 .....	8	976	2,058	4,413	244	17,897	31,749	14,336	—	—	1,414	7,472	14,964
1,000,000 " 4,999,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>37</b>	<b>1,591</b>	<b>3,364</b>	<b>7,207</b>	<b>394</b>	<b>26,603</b>	<b>48,043</b>	<b>22,077</b>	<b>9</b>	<b>71</b>	<b>2,240</b>	<b>11,461</b>	<b>22,945</b>

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

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>1964</b>													
Under 5 employed .....	10	66	131	248	23	590	1,154	575	4	30	81	317	593
5 - 14 employed .....		14	233	472	80	4,843	8,269	3,407	4	40	327	1,562	3,434
15 - 49 " .....		6	285	616	57	2,655	5,761	3,034	—	—	400	1,794	3,141
50 - 99 " .....		6	831	1,713	165	11,101	20,462	9,621	—	—	1,198	5,626	10,504
100-199 " .....	3	—	—	—	—	—	—	—	—	—	—	—	—
200-499 " .....		—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>36</b>	<b>1,415</b>	<b>2,933</b>	<b>5,674</b>	<b>325</b>	<b>19,190</b>	<b>35,646</b>	<b>16,637</b>	<b>8</b>	<b>70</b>	<b>2,006</b>	<b>9,299</b>	<b>17,672</b>
<b>1965</b>													
Under 5 employed .....	9	51	107	239	17	500	1,011	496	4	29	62	290	495
5 - 14 employed .....		14	257	536	67	4,734	8,079	3,415	5	42	343	1,733	3,540
15 - 49 " .....		8	425	925	97	8,412	13,986	5,712	—	—	598	2,916	6,324
50 - 99 " .....		3	238	525	70	2,363	6,999	4,890	—	—	384	2,127	5,042
100-199 " .....	3	—	—	—	—	—	—	—	—	—	—	—	—
200-499 " .....		—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>37</b>	<b>1,591</b>	<b>3,364</b>	<b>7,207</b>	<b>394</b>	<b>26,603</b>	<b>48,043</b>	<b>22,077</b>	<b>9</b>	<b>71</b>	<b>2,240</b>	<b>11,461</b>	<b>22,945</b>



TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

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>1964</b>													
Individual ownerships .....	4	57	99	287	16	392	951	548	8	70	60	298	544
Partnerships .....													
Incorporated companies .....	32	1,358	2,833	5,388	309	18,799	34,696	16,089	...	...	1,946	9,001	17,128
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>36</b>	<b>1,415</b>	<b>2,933</b>	<b>5,674</b>	<b>325</b>	<b>19,190</b>	<b>35,646</b>	<b>16,637</b>	<b>8</b>	<b>70</b>	<b>2,006</b>	<b>9,299</b>	<b>17,672</b>
<b>1965</b>													
Individual ownerships .....	4	64	128	354	17	416	1,012	679	9	71	65	361	676
Partnerships .....													
Incorporated companies .....	33	1,527	3,236	6,853	378	26,187	47,031	21,398	...	...	2,175	11,099	22,269
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>37</b>	<b>1,591</b>	<b>3,364</b>	<b>7,207</b>	<b>394</b>	<b>26,603</b>	<b>48,043</b>	<b>22,077</b>	<b>9</b>	<b>71</b>	<b>2,240</b>	<b>11,461</b>	<b>22,945</b>

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
<b>\$'000</b>						
<b>Output</b>						
1. Shipments and other revenue .....	35,646	48,043	4,007	9,802	39,653	57,845
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	1,709	2,394	...	...	1,709	2,394
Finished goods .....	1,671	2,082	...	...	1,671	2,082
Deduct opening—Goods in process .....	1,358	1,709	...	...	1,358	1,709
Finished goods .....	1,516	1,736	...	...	1,516	1,736
2. Net inventory change .....	506	1,031	...	...	506	1,031
3. Gross output (1 + 2) .....	36,152	49,074	4,007	9,802	40,159	58,876
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	2,659	8,739	2,659	8,739
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	164	341	164	341
Deduct closing .....	...	...	70	372	70	372
5. Cost of goods sold (not of own manufacture) .....	...	...	2,753	8,708	2,753	8,708
6. Materials, supplies, etc. ....	19,190	26,603	219	226	19,409	26,829
7. Fuel and electricity .....	325	394	...	...	325	394
8. Gross input (5 + 6 + 7) .....	19,515	26,997	2,972	8,934	22,487	35,931
Value added (3 - 8) .....	16,637	22,077	1,035	868	17,672	22,945



TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distribi- ution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1964															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	x	-	-	-	x	-	-	-	x	-	x	-	x	-	x
Quebec .....	137	9	-	-	43	20	28	3	208	32	536	-	332	173	1,041
Ontario .....	1,078	27	-	-	258	88	109	19	1,445	134	4,435	-	1,988	988	7,411
Manitoba .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	x	x	-	-	x	-	x	-	x	-	x	-	x	x	x
British Columbia .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	1,378	37	-	-	320	111	138	22	1,836	170	5,674	-	2,460	1,165	9,299
1965															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	x	-	-	-	x	-	-	-	x	-	x	-	x	-	x
Quebec .....	148	17	-	-	32	24	30	3	210	44	681	-	330	194	1,205
Ontario .....	1,243	25	-	-	273	108	129	21	1,645	154	5,732	-	2,430	1,132	9,294
Manitoba .....	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	x	-	-	-	x	-	x	-	x	-	x	-	x	x	x
British Columbia .....	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	1,549	42	-	-	330	135	160	24	2,039	201	7,207	-	2,923	1,330	11,461

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	1,197	35	1,516	40
February .....	1,230	37	1,561	40
March .....	1,273	39	1,549	38
April .....	1,361	39	1,578	38
May .....	1,394	41	1,537	39
June .....	1,453	41	1,567	35
July .....	1,408	35	1,499	39
August .....	1,424	35	1,519	41
September .....	1,430	34	1,537	44
October .....	1,407	36	1,589	50
November .....	1,518	35	1,581	51
December .....	1,442	35	1,554	52
Averages .....	1,378	37	1,549	42
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments .....	1,378	37	1,549	42

TABLE 10. Inventories, 1965

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 .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	x	—	x	x	—	x
Quebec .....	415	27	192	634	27	661
Ontario .....	3,729	1,546	1,411	6,687	313	7,000
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	—	x	x	—	x
British Columbia .....	x	x	x	x	—	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	4,428	1,709	1,736	7,872	341	8,213
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	x	—	x	x	—	x
Quebec .....	455	68	221	743	9	753
Ontario .....	4,553	2,134	1,605	8,292	363	8,655
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	—	x	x	—	x
British Columbia .....	x	x	x	x	—	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	5,334	2,394	2,082	9,810	372	10,182

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	—	43	1
(b) Imported .....	"	258	—	—
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	19,237	63,088	23
Fuel oil including kerosene or coal oil .....	"	832,191	819,577	89
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	10,544	19,487	5
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	45,193	88,884	80
Other fuel .....	...	—	...	—
Electricity purchased .....	kwh.	10,684,203	12,211,406	164
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	45	...	33
3. All establishments:				
Total fuel and electricity used .....	...	325	...	394

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

		1964		1965	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Steel (except alloy and tool steel):					
Bars .....	ton	886	122	985	129
Plates (3/16 in. and thicker) .....	"	176	43	603	119
Sheets (under 3/16 in.):					
Plain .....	"	7,810	1,246	9,983	1,815
Galvanized .....	"	3,648	676	4,567	857
Strip .....	"	150	32	153	28
Structural shapes, unfabricated (channels, angles, etc.) .....	"	174	47	170	34
Wire .....	"	35	7	14	3
Alloy and tool steel in all forms:					
Alloy steel (other than stainless and tool steel) .....		..	1	..	—
Stainless:					
Billets, bars and rods .....		..	—	..	35
Sheet .....		..	436	..	563
Other .....		..	10	..	18
Tool steel (all types including high speed) .....		..	4	..	8
Pipe and fittings, iron and steel .....		..	338	..	366
Other iron and steel .....		..	471	..	2,668
Non-ferrous metals in all forms:					
Aluminum:					
Castings .....	lb.	34,700	40	63,000	74
Pipe and tubing .....	"	57,679	37	75,921	46
Sheet .....	"	476,861	202	541,863	218
Other forms .....	"	1,180,658	560	1,321,654	660
Brass and bronze .....	"	113,331	90	496,290	283
Copper:					
Pipe and tubing .....	"	2,352,201	1,786	2,795,937	2,264
Sheet .....	"	3,701	3	36,439	29
Wire .....	"	—	—	282,944	108
Other forms .....	"	228,454	111	103,324	63
Lead .....		—	—	—	—
Nickel .....	lb.	..	..	53,556	40
Zinc .....	"	6,386	3	55,425	21
Babbitt metal and solders .....	"	6,000	11	5,000	11
Other non-ferous metals .....	"	..	..	..	50
Other materials and supplies:					
Paints and varnishes .....		...	353	...	403
Plywood .....	M sq. ft.	285	51	450	81
Lumber .....	M bd. ft.	3,537	378	2,257	382
Electric motors:					
Less than 1 h.p. ....	No.	60,478	573	225,144	1,707
1 h.p. and over .....	"	3,041	121	906	102
All other materials and components used <sup>1</sup> .....		...	10,339	...	12,253
2. Containers and other packaging materials and supplies used .....					
3. Operating, maintenance and repair supplies used (excluding fuel) .....					
4. Amount paid out to others for work done on materials owned by establishments .....					
Totals .....					

<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 \$1,190,000 in 1964 and \$696,400 in 1965.



TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Description	Value	
	1964	1965
	\$'000	
1. Products:		
Air conditioners .....	4,340	1
Refrigeration equipment:		
Commercial refrigeration .....	12,280	13,956
Condensing equipment .....	..	4,245
Refrigeration and air conditioning equipment, other, and parts .....	13,048	15,007
All other products .....	5,362 <sup>f</sup>	14,118
Amount received for repairs .....	347	799
2. Amount received in payment for work done on materials and products owned by others .....	385	325
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(116)	(407)
Net adjustment for establishments receiving progress payments .....	—	—
<b>Total adjusted value of shipments and work done .....</b>	<b>35,646</b>	<b>48,043</b>

<sup>f</sup> Concluded in "All other products".

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965

(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Commercial Refrigeration and Air Conditioning Equipment

Item	1964		1965	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
Room air conditioners - Window sill type .....	55,481	6,411	60,243	6,796
Room air conditioners, self-contained, except window sill type .....	686	665	...	1
Other air conditioning units (Includes units for location below windows, all other not self-contained, and packaged air conditioners excluding household) .....	...	5,501	...	3,533
Ice cream cabinets, non-display .....	1,509	479	...	1
Frozen food cabinets, commercial .....	3,851	2,864	..	..
Display cases, refrigerated, other .....	5,679	4,562	12,101	8,011
Commercial refrigerators, including reach-in and walk-in types, self-contained and remote .....	3,404	3,066	11,128	6,018
Heat transfer coils .....	...	1,815	...	2,914
Unit coolers, floor and wall mounted .....	7,816	1,548	9,078	2,027
Compressor units .....	5,782	1,697	...	1
Condensing units, reciprocating (refrigeration) .....	...	1	8,305	3,696
Evaporative condensers, all types (refrigeration) .....	121	255	202	580
Condensers, air or water cooled .....	2,201	1,676	678	870
Refrigeration and air conditioning equipment, other, and parts <sup>1</sup> .....	...	18,473	...	24,849
<b>Totals .....</b>	<b>...</b>	<b>49,012</b>	<b>...</b>	<b>59,294</b>

<sup>1</sup> Included with "Refrigeration and air conditioning, other".

<sup>2</sup> Includes "Condensing units reciprocating".

Note: For details on household refrigerators and freezers see "Manufacturers of Major Appliances," Catalogue No. 43-204.



**List of Establishments classified to this Industry, 1965**

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

Name	Location
<b>New Brunswick:</b>	
Sussex Refrigeration Mfg. Co. Ltd. ....	Sussex
<b>Quebec:</b>	
Blanchard Industries Co. ....	7779 Casgrain St., Montreal
Canada's Best Refrigeration Eqpt. ....	8607 Notre Dame St. E., Montreal
Colsan Limited ....	636 St. Paul St. W., Montreal
Farr Co. Ltd. ....	390 Des Lauriers St., Montreal
Foster Refrigerator of Canada Ltd. ....	Drummondville
Frigistors Ltd. ....	5770 Andover Ave., Montreal
Gauvin, Inc. ....	220 Lee St., Quebec
<b>Ontario:</b>	
Aerofin Corp. (Canada) Ltd. ....	Gananoque
Air Coils Mfg. Co. Ltd. ....	346 Wyecroft Rd., Oakville
Baltimore Aircoil of Canada Ltd. ....	Brampton
Canadian Curtis Refrigeration Ltd. ....	Stoney Creek
Canadian Static Condenser Co. ....	Beamsville
Canadian Tyler Refrigeration Ltd. ....	Tilbury
Carrier Air Conditioning (Canada) Ltd. ....	Bramalea
Coldmatic Refrigerator Co. ....	425 Enfield Rd., Burlington
Copeland Refrigeration of Canada Ltd. ....	145 Sherwood Drive, Brantford
Heavy Duty Products (Preston) Ltd. ....	Preston
Hussmann Refrigerator Co. Ltd. ....	58 Frank St., Brantford
Ideal Venders Ltd. ....	Deseronto
International Hardware Co. of Canada (1963) Ltd. ....	Barrie
Keep Rite Products Ltd. ....	44 Elgin St., Brantford
Keep Rite Products Ltd., Unifin Division ....	1030 Clarke Sideroad, London
Milner, Edward Co. Ltd., The ....	55 Milner Ave., Agincourt
National Shipley Ltd. ....	65 Villiers St., Toronto
Northern Eureka Refrigerator Co. Ltd. ....	58 Milvan Drive, Western
Parker-Hannafin Ltd. ....	Grimsby
Rapid Refrigeration Mfg. Co. Ltd. ....	370 Birchmount Rd., Scarborough
Sno-Boy Coolers Ltd. ....	Barrie
Superline Refrigeration Mfg. Co. Ltd. ....	Cooksville
Tecumseh Products of Canada Ltd. ....	185 Ashland Ave., London
United Cooler (Niagara) Ltd. ....	72 Vine St., St. Catharines
<b>Manitoba:</b>	
Coldstream Refrigerator Mfg. Ltd. ....	1855 Sargent Ave., Winnipeg
Polar Equipment Co. Ltd. ....	467 Provencher Ave., St. Boniface
<b>Alberta:</b>	
Centra-Flo Mfg. Co. Ltd. ....	Raymond
<b>British Columbia:</b>	
Cory, Geo. J. Refrigeration Ltd. ....	Granville Island, Vancouver
Gair, Alex & Sons ....	955 East Hastings St., Vancouver

# 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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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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