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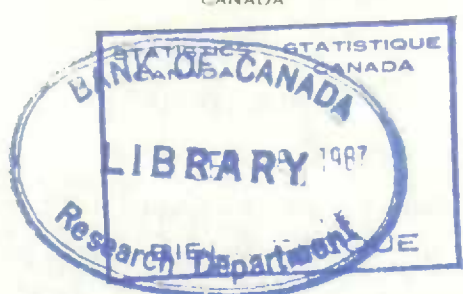
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CANADA



COMMERCIAL REFRIGERATION AND AIR  
CONDITIONING EQUIPMENT MANUFACTURERS  
1964

ANNUAL CENSUS  
OF MANUFACTURES

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## PUBLICATIONS

In addition to the report, on this industry, the DBS publishes annual statistics on a number of related industries and current statistics on the more important commodities. Copies of reports provided in the following list are available from the Information and Public Relations Division of the DBS, Ottawa or from the Queen's Printer, Hull, P.Q.

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A — Annual

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# COMMERCIAL REFRIGERATION AND AIR CONDITIONING EQUIPMENT MANUFACTURERS

1964

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.

The number of establishments classified to this industry increased to 36 in 1964, however it should be noted that the real change involved the addition of 5 firms and the deletion of 3 firms.

Total employment increased by 433 persons and total salaries and wages by \$2,222,000. The total number of production employees increased by 327 or 30% and accounted for 70% of total employment in this industry.

The value of materials used in the production of goods of own manufacture increased by \$6,994,000 or 57% and the value of shipments of goods of own manufacture increased by \$9,312,000 or 36%. During the same period Goods in Process and Finished Goods Inventories increased by \$1,637,000 or 22%.

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

TABLE 1. Principal Statistics, 1961-64

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	2,431	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													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	1	123	256	436	33	1,098	2,750	1,626	3	20	189	761	1,656
Quebec .....	7												
Ontario .....	20	809	1,563	3,208	198	9,716	20,993	11,206	3	15	1,201	5,510	12,044
Manitoba .....	3	96	186	323	17	687	1,278	633	-	-	113	392	626
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	1	60	120	334	10	695	1,313	593	4	36	70	415	658
British Columbia .....	2												
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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



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	
1963													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....	5	23	45	76	6	153	297	156	4	18	28	91	156
50,000 " 99,999 .....		47	92	171	14	351	842	504	2	17	59	226	504
100,000 " 199,999 .....		74	153	295	24	668	1,526	860	—	—	101	441	890
200,000 " 499,999 .....	6	283	579	1,145	58	3,183	6,810	3,486	4	36	380	1,686	3,574
500,000 " 999,999 .....	9	661	1,255	2,614	157	7,841	16,859	9,052	—	—	1,005	4,633	9,860
1,000,000 " 4,999,999 .....	8	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	34	1,088	2,125	4,301	259	12,196	26,334	14,058	10	71	1,573	7,077	14,984
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 .....		49	97	185	15	413	774	353	2	18	58	226	365
100,000 " 199,999 .....		108	217	415	32	1,243	2,568	1,338	—	—	141	616	1,367
200,000 " 499,999 .....	8	255	547	1,213	61	3,231	6,544	3,313	4	40	360	1,793	3,420
500,000 " 999,999 .....	9	996	2,058	3,832	213	14,231	25,591	11,538	—	—	1,437	6,623	12,417
1,000,000 " 4,999,999 .....	10	—	—	—	—	—	—	—	—	—	—	—	—
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

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	
1963													
Under \$10,000 .....	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999 .....	5	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999 .....		15	30	50	5	182	315	141	4	18	20	70	141
50,000 " 99,999 .....		45	90	174	12	346	720	363	2	17	56	217	362
100,000 " 199,999 .....	6	71	148	283	25	532	1,266	763	—	—	93	396	794
200,000 " 499,999 .....	10	265	545	1,042	59	3,985	7,615	3,463	4	36	364	1,592	3,556
500,000 " 999,999 .....	5	249	531	1,034	62	3,068	6,908	3,842	—	—	379	1,747	3,857
1,000,000 " 4,999,999 .....	3	443	782	1,718	96	4,082	9,510	5,485	—	—	661	3,055	6,273
5,000,000 and over .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	34	1,088	2,125	4,301	259	12,196	26,334	14,058	10	71	1,573	7,077	14,984
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 .....		36	72	151	8	358	672	311	2	18	44	181	310
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	3,748
1,000,000 " 4,999,999 .....	5	763	1,588	2,935	150	10,741	19,223	8,803	—	—	1,062	4,819	8,916
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

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 .....	5	15	30	50	5	182	315	141	4	18	20	70	141
25,000 " 49,999 .....	5	45	90	174	12	346	720	363	2	17	56	217	362
50,000 " 99,999 .....	6	71	148	283	25	532	1,266	763	-	-	93	396	794
100,000 " 199,999 .....	9	229	460	872	55	3,576	6,676	2,964	4	36	306	1,267	3,036
200,000 " 499,999 .....	6	285	616	1,203	66	3,477	7,848	4,342	-	-	437	2,072	4,378
500,000 " 999,999 .....	3	443	782	1,718	96	4,082	9,510	5,485	-	-	661	3,055	6,273
1,000,000 " 4,999,999 .....	-	-	-	-	-	-	-	-	-	-	-	-	-
5,000,000 and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	34	1,088	2,125	4,301	259	12,196	26,334	14,058	10	71	1,573	7,077	14,984
1964													
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	185	15	413	774	353	2	18	58	226	365
50,000 " 99,999 .....	7	93	196	400	32	1,413	2,431	1,032	-	-	122	571	1,063
100,000 " 199,999 .....	9	212	446	950	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 .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	36	1,415	2,933	5,674	325	19,190	35,646	16,637	8	70	2,006	9,299	17,672

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 .....	11	70	138	246	20	505	1,139	660	6	35	87	317	660
5- 14 employed .....	13	214	444	901	66	3,630	6,912	3,098	4	36	304	1,369	3,206
15- 49 " .....	7	361	761	1,435	77	3,979	8,772	4,815	-	-	521	2,336	4,845
50- 99 " .....	3	443	782	1,718	96	4,082	9,510	5,485	-	-	661	3,055	6,273
100-199 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
200-499 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed and over .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals .....	34	1,088	2,125	4,301	259	12,196	26,334	14,058	10	71	1,573	7,077	14,984
1964													
Under 5 employed .....	10	66	131	248	23	590	1,154	575	4	30	81	317	593
5- 14 employed .....	14	233	472	1,042	80	4,843	8,269	3,407	4	40	327	1,562	3,434
15- 49 " .....	6	285	616	1,172	57	2,655	5,761	3,034	-	-	400	1,794	3,141
50- 99 " .....	6	831	1,713	3,213	165	11,101	20,462	9,621	-	-	1,198	5,626	10,504
100-199 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
200-499 " .....	-	-	-	-	-	-	-	-	-	-	-	-	-
500 employed 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

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

Type of organization	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	
<b>1963</b>													
Individual ownerships .....	5	58	102	277	15	390	940	517	10	71	60	285	584
Partnerships .....													
Incorporated companies .....	29	1,030	2,023	4,024	243	11,806	25,394	13,541	...	...	1,513	6,792	14,400
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals .....</b>	<b>34</b>	<b>1,088</b>	<b>2,125</b>	<b>4,301</b>	<b>259</b>	<b>12,196</b>	<b>26,334</b>	<b>14,058</b>	<b>10</b>	<b>71</b>	<b>1,573</b>	<b>7,077</b>	<b>14,984</b>
<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>

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
\$'000						
<b>Output</b>						
1. Shipments and other revenue .....	26,334	35,646	4,702	4,007	31,036	39,853
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	1,239	1,709	...	...	1,239	1,709
Finished goods .....	1,393	1,671	...	...	1,393	1,671
Deduct opening—Goods in process .....	931	1,356	...	...	931	1,356
Finished goods .....	1,522	1,516	...	...	1,522	1,516
2. Net inventory change .....	179	506	...	...	179	506
3. Gross output (1 + 2) .....	26,513	36,152	4,702	4,007	31,215	40,159
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	3,493	2,659	3,493	2,659
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	387	164	387	164
Deduct closing .....	...	...	257	70	257	70
5. Cost of goods sold (not of own manufacture) .....	...	...	3,823	2,753	3,823	2,753
6. Materials, supplies, etc. ....	12,196	19,190	152	219	12,348	19,409
7. Fuel and electricity .....	259	325	...	...	259	325
8. Gross input (5 + 6 + 7) .....	12,455	19,515	3,775	2,972	16,230	22,487
Value added (3 - 8) .....	14,058	16,637	927	1,035	14,984	17,672



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		Adminis- trative and office	Sales and distrib- ution	Total	
	Manufacturing		Other								Manufacturing	Other				
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing
1963	number										\$'000					
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Brunswick	}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Quebec		114	9	-	-	33	13	20	-	167	22	436	-	196	130	761
Ontario		787	22	-	-	214	78	84	16	1,085	116	3,208	-	1,611	691	5,510
Manitoba		96	-	-	-	12	3	2	-	110	3	323	-	62	7	392
Saskatchewan		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia		59	1	-	-	9	1	-	-	68	2	334	-	81	-	415
Yukon and Northwest Terri- tories		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals		1,056	32	-	-	268	95	106	18	1,430	143	4,301	-	1,949	828	7,077
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

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	991	33	1,197	35
February	1,003	32	1,230	37
March	1,029	32	1,273	39
April	1,022	32	1,361	39
May	1,088	33	1,394	41
June	1,112	34	1,453	41
July	1,116	32	1,408	35
August	1,100	31	1,424	35
September	1,068	33	1,430	34
October	1,069	33	1,407	36
November	1,043	27	1,518	35
December	1,024	31	1,442	35
Averages	1,056	32	1,378	37
Establishments reporting annual averages (small establishments only)	...	...	...	...
Average for all establishments	1,056	32	1,378	37

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 .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	x	—	x	x	—	x
Quebec .....	286	37	134	458	6	464
Ontario .....	2,585	1,218	1,214	5,017	158	5,175
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	—	x	x	—	x
British Columbia .....	x	x	x	x	—	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	3,200	1,358	1,516	6,074	164	6,238
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	x	—	x	x	—	x
Quebec .....	439	27	216	682	27	709
Ontario .....	3,451	1,547	1,322	6,320	43	6,362
Manitoba .....	x	x	x	x	—	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	—	x	x	—	x
British Columbia .....	x	x	x	x	—	x
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	4,176	1,709	1,671	7,556	70	7,625

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	—	—	—
(b) Imported .....	"	279	258	4
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	26,846	19,237	8
Fuel oil including kerosene or coal oil .....	"	764,462	832,191	86
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	4,306	10,544	3
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	26,738	45,193	44
Other fuel .....	...	—	...	—
Electricity purchased .....	kwh.	8,924,401	10,684,203	135
Steam purchased .....	...	1	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	32	...	46
3. All establishments:				
<b>Total fuel and electricity used .....</b>	<b>...</b>	<b>259</b>	<b>...</b>	<b>325</b>

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

Description		1963		1964	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Steel (except alloy and tool steel):					
Bars .....	ton	82	16	886	122
Plates (3/16 in. and thicker) .....	"	653	111	176	43
Sheets (under 3/16 in.):					
Plain .....	"	4,950	689	7,810	1,246
Galvanized .....	"	2,384	451	3,648	676
Strip .....	"	242	47	150	32
Structural shapes, unfabricated (channels, angles, etc.) .....	"	159	33	174	47
Wire .....	"	60	14	35	7
Alloy and tool steel in all forms:					
Alloy steel (other than stainless and tool steel) .....		—	—	..	1
Stainless:					
Billets, bars and rods .....		..	19	..	..
Sheet .....		..	297	..	436
Other .....		..	3	..	10
Tool steel (all types including high speed) .....		..	3	..	4
Pipe and fittings, iron and steel .....		..	187	..	338
Other iron and steel .....		..	783	..	471
Non-ferrous metals in all forms:					
Aluminum:					
Castings .....	lb.	3,107	3	34,700	40
Pipe and tubing .....	"	189,157	99	57,679	37
Sheet .....	"	467,441	210	476,861	202
Other forms .....	"	206,657	301	1,180,658	560
Brass and bronze .....	"	9,333	9	113,331	90
Copper:					
Pipe and tubing .....	"	2,097,683	1,421	2,352,201	1,786
Sheet .....	"	2,000	2	3,701	3
Wire .....		—	—	—	—
Other forms .....	lb.	146,000	97	228,454	111
Lead .....		—	—	—	—
Zinc .....	lb.	4,566	2	6,386	3
Babbitt metal and solders .....	"	8,003	8	13,141	11
Other materials and supplies:					
Paints and varnishes .....		...	203	...	353
Plywood .....	M sq. ft.	160	36	285	51
Lumber .....	M bd. ft.	2,805	277	3,537	378
Electric motors:					
Less than 1 h.p. ....	No.	22,956	264	60,478	573
1 h.p. and over .....	"	1,423	100	3,041	121
All other materials and components used <sup>1</sup> .....		...	5,757	...	10,339
2. Containers and other packaging materials and supplies used .....					
		...	225	...	374
3. Operating, maintenance and repair supplies used (excluding fuel) .....					
		...	419	...	621
4. Amount paid out to others for work done on materials owned by establishments .....					
		...	111	...	103
Totals .....		...	12,196	...	19,190

<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 \$661,200 in 1963 and \$1,190,000 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Air conditioners .....	2,026	4,340
Refrigeration equipment:		
Commercial refrigeration .....	11,733	12,280
Condensing equipment .....	2,732	3,526
Refrigeration and air conditioning equipment, other, and parts .....	5,968	9,522
All other products .....	3,673	5,709
2. Amount received in payment for work done on materials and products owned by others .....	275	385
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(72)	(116)
Net adjustment for establishments receiving progress payments .....	-	-
Total adjusted value of shipments and work done .....	26,334	35,846

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)  
Commercial Refrigeration and Air Conditioning Equipment

Item	1963		1964	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
Room air conditioners - Window sill type .....	17,546	3,216	55,481	6,411
Room air conditioners, self-contained, except window sill type .....	x	x	688	665
Other air conditioning units (includes units for location below windows, all other not self-contained, and packaged air conditioners excluding household) .....	...	4,834	...	5,501
Ice cream cabinets, non-display .....	x	x	1,509	479
Frozen food cabinets, commercial .....	1,358	1,275	3,851	2,864
Display cases, refrigerated, other .....	4,225	3,464	5,679	4,562
Commercial refrigerators, including reach-in and walk-in types, self-contained and remote .....	2,534	2,406	3,404	3,066
Heat transfer coils .....	...	1,767	...	1,815
Unit coolers, floor and wall mounted .....	...	1,363	...	1,548
Compressor units .....	5,437	1,602	5,782	1,697
Condensing units, reciprocating (refrigeration) .....	4,302	1,447	x	x
Evaporative condensers, all types (refrigeration) .....	...	357	...	255
Condensers, air or water cooled .....	2,075	1,345	2,201	1,676
Refrigeration and air conditioning equipment, other, and parts <sup>1</sup> .....	...	15,848	...	18,473
Totals .....	...	38,924	...	49,012

<sup>1</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, 1964**

(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 DesLauriers St., Montreal
Foster Refrigerator of Canada Ltd.	Drummondville
Frigistors Ltd.	577 Andover Ave., Montreal
Gauvin, Inc.	220 Lee St., Quebec
Quebec Refrigeration Co.	7485 St. Laurent, Montreal
<b>Ontario:</b>	
Aerofin Corp. (Canada) Ltd.	Gananoque
Air Coils Mfg. Co. Ltd.	346 Wyecroft Rd., Oakville
Baltimore Oil Coil of Canada Ltd.	Brampton
Canadian Curtis Refrigeration Ltd.	50 George St., Hamilton
Canadian Ice Machine Co. Ltd.	65 Villiers St., Toronto
Canadian Tyler Refrigeration Ltd.	Tilbury
Carrier Air Conditioning (Canada) Ltd.	Bramalea
Goldmatic Refrigerator Co.	425 Enfield Rd., Burlington
Gopeland 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
Kenmore Machine Products (Canada) Ltd.	R.R. 3, Beamsville
Milner, Edward Co. Ltd., The	55 Milner Ave., Agincourt
Northern Eureka Refrigerator Co. Ltd.	58 Milvan Drive, Weston
Rapid Refrigeration Mfg. Co. Ltd.	370 Birchmount Rd., Scarborough
Sno-Boy Coolers Ltd.	Barrie
Superline Refrigeration Mfg. Co. Ltd.	Cooksville
Unifin Limited	1030 Clarkeside Rd., 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 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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