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HEATING EQUIPMENT MANUFACTURERS

1963

Data presented in this report under the heading of Heating Equipment Manufacturers reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

For statistical purposes the industry titled Heating Equipment Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing commercial cooking equipment and major heating apparatus such as furnaces, oil burners, gas burners, steam and hot water heating apparatus and heating equipment, not elsewhere classified. Establishments primarily engaged in manufacturing cast iron sectional heating boilers and convection or cast iron radiators are included in this industry. Establishments primarily engaged in manufacturing domestic cooking equipment, electric and non-electric, are classified in Industry No. 332—Manufacturers of Major Appliances.

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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	110	3,445	7,052	13,245	791	34,296	77,407	41,704	21	67	5,137	22,079	43,980
1962													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2												
New Brunswick	-	1,333	2,810	5,317	214	12,568	26,455	13,840	2	2	1,755	7,730	14,130
Quebec	24												
Ontario	57	1,840	3,816	7,564	454	23,282	49,225	26,105	11	56	3,034	13,490	28,327
Manitoba	6	207	421	746	40	2,789	5,005	1,915	-	-	295	1,101	1,983
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	5	60	117	191	17	550	1,162	585	4	17	86	333	589
British Columbia	9	121	242	481	42	1,536	2,764	1,233	-	-	179	745	1,357
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	2	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	24	1,285	2,908	5,508	209	14,172	26,926	12,368	2	2	1,787	8,282	12,636
Ontario	59	1,909	3,974	7,748	470	25,947	52,459	26,355	7	31	3,109	14,123	28,558
Manitoba	8	286	545	1,040	52	3,807	6,609	3,010	-	-	347	1,420	3,169
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	5	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	8	106	228	466	45	1,662	2,957	1,269	-	-	166	747	1,381
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	23,268	47,401

TABLE 1 B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	3	1	1	2	—	3	17	14	2	2	2	5	14
\$ 10,000 to \$ 24,999	5	5	11	19	3	36	85	46	6	24	7	27	63
25,000 " 49,999	5	13	28	48	3	48	157	98	2	9	18	66	119
50,000 " 99,999	19	99	218	369	23	586	1,459	836	2	9	143	562	873
100,000 " 199,999	15	129	269	460	29	836	2,155	1,290	3	21	175	701	1,374
200,000 " 499,999	17	303	604	1,020	68	2,359	5,269	2,925	—	—	423	1,664	3,313
500,000 " 999,999	16	503	1,030	1,853	118	6,327	11,739	5,469	2	8	747	2,949	6,175
1,000,000 " 4,999,999	23	2,508	5,245	10,528	522	30,530	63,731	33,001	—	—	3,796	17,211	34,456
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	38	195	...
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Under \$10,000	9	4	8	13	3	49	130	79	10	30	7	20	79
\$ 10,000 to \$ 24,999	5	12	24	46	3	69	178	112	—	—	19	77	127
25,000 " 49,999	18	86	177	333	18	601	1,336	702	2	11	127	526	781
50,000 " 99,999	11	91	198	343	17	660	1,475	803	—	—	119	468	822
100,000 " 199,999	23	413	866	1,468	89	3,337	7,484	4,275	—	—	554	2,319	4,653
200,000 " 499,999	13	399	863	1,582	101	4,795	9,255	4,201	2	9	570	2,403	4,655
500,000 " 999,999	25	1,725	3,759	6,979	346	28,560	49,786	21,283	—	—	2,651	12,198	22,391
1,000,000 " 4,999,999	3	974	2,030	4,488	230	8,712	22,103	13,150	—	—	1,499	7,029	13,894
5,000,000 and over	3	974	2,030	4,488	230	8,712	22,103	13,150	—	—	1,499	7,029	13,894
Head offices, sales offices and auxiliary units													
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	25,268	47,401

TABLE 1 C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	6	2	3	6	2	21	60	37	7	24	3	9	41
\$ 10,000 to \$ 24,999	7	13	28	48	4	94	222	117	3	12	19	68	139
25,000 " 49,999	13	60	129	215	17	383	914	503	2	9	86	332	553
50,000 " 99,999	19	157	333	578	34	1,177	2,556	1,370	3	21	217	870	1,605
100,000 " 199,999	15	231	481	786	60	2,793	5,145	2,086	—	—	362	1,442	2,228
200,000 " 499,999	22	617	1,255	2,230	135	7,861	14,413	6,878	2	8	913	3,683	7,212
500,000 " 999,999	11	547	1,107	2,115	125	10,391	18,058	7,563	—	—	846	3,608	8,869
1,000,000 " 4,999,999	10	1,934	4,068	8,320	388	18,005	43,243	25,126	—	—	2,865	13,191	25,741
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	38	195	...
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Under \$10,000	6	2	4	6	2	29	75	43	7	20	2	6	42
\$ 10,000 to \$ 24,999	11	19	42	74	6	237	442	196	3	11	33	124	210
25,000 " 49,999	11	54	109	207	11	328	762	417	2	11	80	330	497
50,000 " 99,999	16	132	280	496	28	1,296	2,449	1,137	—	—	177	715	1,154
100,000 " 199,999	16	237	506	876	59	3,085	5,354	2,270	—	—	327	1,421	2,388
200,000 " 499,999	24	688	1,481	2,633	158	10,192	17,433	7,062	2	9	999	4,381	7,471
500,000 " 999,999	13	622	1,252	2,465	143	12,496	21,500	9,367	—	—	955	4,244	10,715
1,000,000 " 4,999,999	10	1,950	4,251	8,492	401	19,210	43,732	24,113	—	—	2,973	13,818	24,324
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	40	229	...
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	25,268	47,401

TABLE 10. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	5	2	3	5	2	15	44	27	4	10	3	9	27
\$ 10,000 to \$ 24,999	7	10	22	36	4	88	206	109	6	25	15	53	127
25,000 " 49,999	12	43	95	161	13	312	757	422	2	9	61	247	457
50,000 " 99,999	19	162	344	594	32	1,007	2,353	1,323	3	21	217	853	1,346
100,000 " 199,999	15	223	465	746	61	2,756	5,072	2,048	—	—	343	1,347	2,149
200,000 " 499,999	23	621	1,262	2,253	133	7,855	14,127	6,602	2	8	910	3,650	7,121
500,000 " 999,999	10	486	981	1,809	111	8,490	15,168	6,597	—	—	764	3,160	7,089
1,000,000 " 4,999,999	12	2,014	4,235	8,696	410	20,201	46,884	26,550	—	—	2,998	13,886	28,071
5,000,000 and over	12	2,014	4,235	8,696	410	20,201	46,884	26,550	—	—	2,998	13,886	28,071
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	38	195	...
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Under \$10,000	6	2	4	6	2	29	75	43	7	20	2	6	42
\$ 10,000 to \$ 24,999	9	14	32	54	5	215	375	151	3	11	25	91	150
25,000 " 49,999	10	30	61	117	7	243	584	332	2	11	45	192	346
50,000 " 99,999	16	149	314	557	29	1,362	2,598	1,219	—	—	202	809	1,262
100,000 " 199,999	16	225	482	835	57	2,876	5,021	2,142	—	—	310	1,350	2,272
200,000 " 499,999	25	712	1,529	2,724	163	10,442	17,863	7,237	2	9	1,034	4,529	7,691
500,000 " 999,999	11	482	960	1,815	100	9,006	16,160	7,558	—	—	725	3,082	8,594
1,000,000 " 4,999,999	12	2,090	4,542	9,143	444	22,610	49,072	25,922	—	—	3,203	14,980	27,044
5,000,000 and over	12	2,090	4,542	9,143	444	22,610	49,072	25,922	—	—	3,203	14,980	27,044
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	40	229	...
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	25,268	47,401

TABLE 11. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	17	19	39	66	9	264	597	316	11	36	33	124	343
5- 14 employed	29	180	388	666	45	1,429	3,622	2,163	2	16	261	1,082	2,279
15- 49 "	31	621	1,270	2,233	133	9,065	16,369	7,299	4	20	897	3,801	8,394
50- 99 "	14	652	1,351	2,412	158	8,338	15,642	7,090	—	—	1,023	3,957	7,569
100-199 "	6	591	1,226	2,329	131	8,251	15,019	7,060	—	—	842	3,899	7,448
200-499 "	6	1,498	3,130	6,591	291	13,379	33,362	19,749	—	—	2,255	10,341	20,354
500 employed and over	6	1,498	3,130	6,591	291	13,379	33,362	19,749	—	—	2,255	10,341	20,354
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	38	195	...
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Under 5 employed	20	23	49	87	10	353	718	350	11	34	42	167	364
5- 14 employed	26	169	359	664	39	1,755	3,878	2,119	1	7	242	1,040	2,283
15- 49 "	33	657	1,436	2,650	165	11,453	18,994	7,412	2	9	970	4,530	8,196
50- 99 "	15	707	1,427	2,501	145	8,864	16,987	8,166	—	—	987	3,911	8,808
100-199 "	6	500	1,065	2,153	135	9,172	15,340	6,405	—	—	797	3,608	6,905
200-499 "	6	500	1,065	2,153	135	9,172	15,340	6,405	—	—	797	3,608	6,905
500 employed and over	7	1,648	3,589	7,195	313	15,187	35,831	20,153	—	—	2,508	11,781	20,845
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	40	229	...
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	25,268	47,401

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

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		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	7	14	30	58	5	122	282	154	7	33	15	59	154
Partnerships	5	30	66	117	10	444	873	420	10	41	35	132	420
Incorporated companies	91	3,517	7,311	14,124	751	40,160	83,456	43,106	-	-	5,261	23,014	43,106
Cooperatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	38	195	...
Totals	103	3,561	7,406	14,298	766	40,725	84,611	43,679	17	74	5,349	23,399	46,387
1963													
Individual ownerships	6	3	6	10	3	57	127	66	6	22	3	10	66
Partnerships	4	24	52	106	6	415	801	379	8	27	27	120	378
Incorporated companies	97	3,677	7,866	15,134	798	46,312	90,820	44,160	-	-	5,516	24,910	46,312
Cooperatives	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	40	229	...
Totals	107	3,704	7,924	15,250	807	46,784	91,748	44,605	14	49	5,586	25,268	47,401

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	84,611	91,748	11,626	13,784	96,237	105,532
Inventories - Goods of own manufacture:						
Add closing - Goods in process	4,060	3,139	...	...	4,060	3,139
Finished goods	6,171	7,540	...	...	6,171	7,540
Less opening - Goods in process	3,320	3,536	...	...	3,320	3,536
Finished goods	6,352	6,696	...	...	6,352	6,696
2. Net inventory change	559	447	...	...	559	447
3. Gross output (1 + 2)	85,170	92,195	11,626	13,784	96,796	105,979
Input						
4. Purchases of goods not of own manufacture .....	...	...	8,804	10,095	8,804	10,095
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	1,124	1,483	1,124	1,483
Less closing .....	...	...	1,545	1,278	1,545	1,278
5. Cost of goods sold (not of own manufacture) .....	...	...	8,383	10,300	8,383	10,300
6. Materials, supplies, components and semi-processed goods	40,725	46,784	535	687	41,260	47,471
7. Fuel and electricity	766	807	...	...	766	807
8. Gross input (5 + 6 + 7)	41,491	47,591	8,918	10,987	50,409	58,578
Census value added (3 - 8)	43,679	44,605	2,708	2,796	46,387	47,401

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1962															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1,324	9	5	-	262	87	66	2	1,657	98	5,317	13	1,845	555	7,730
New Brunswick															
Quebec															
Ontario	1,796	44	10	-	605	256	265	58	2,676	358	7,564	40	4,090	1,795	13,490
Manitoba	207	-	-	-	63	13	12	-	282	13	746	-	316	40	1,101
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	60	-	-	-	20	2	2	2	82	4	191	-	128	14	333
British Columbia	114	7	-	-	32	8	18	-	164	15	481	-	171	94	745
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,501	60	15	-	982	366	363	62	4,861	488	14,298	53	6,550	2,498	23,399
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
New Brunswick	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
Quebec	1,275	10	6	-	279	93	120	4	1,680	107	5,508	34	1,891	849	8,282
Ontario	1,837	72	9	-	566	255	314	56	2,726	383	7,748	40	4,227	2,109	14,123
Manitoba	266	-	-	-	56	14	11	-	333	14	1,040	-	319	60	1,420
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	x	-	-	-	x	x	x	-	x	x	x	-	x	x	x
British Columbia	102	6	-	-	28	10	20	-	150	16	466	-	195	86	747
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,616	88	15	-	949	380	478	60	5,058	528	15,250	74	6,750	3,194	25,268

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,800	38	3,228	71
February	2,850	39	3,253	73
March	2,904	39	3,152	69
April	3,045	41	3,209	66
May	3,157	50	3,322	75
June	3,355	51	3,453	77
July	3,431	54	3,554	78
August	3,633	60	3,558	83
September	3,680	62	3,558	84
October	3,569	65	3,559	78
November	3,364	63	3,408	80
December	3,171	49	3,288	81
Average for establishments reporting monthly detail (collected only for large establishments) ..	3,248	50	3,378	78
Average for small establishments (only annual averages collected)	253	10	238	12
Average for all establishments	3,501	60	3,616	88

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	x	x	x	x	—	x
Quebec	2,130	846	1,194	4,171	248	4,419
Ontario	4,523	2,406	4,401	11,331	1,118	12,449
Manitoba	638	176	541	1,355	—	1,355
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	149	76	202	428	118	546
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	7,772	3,536	6,696	18,004	1,483	19,487
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	x	x	x	x	—	x
Quebec	2,635	692	1,172	4,499	275	4,774
Ontario	4,696	2,079	5,041	11,816	936	12,752
Manitoba	776	238	738	1,752	—	1,752
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	—	x
British Columbia	140	88	209	437	67	504
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	8,595	3,139	7,540	19,274	1,278	20,553

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	1,087	969	13
(b) Imported	"	348	345	5
Sub-bituminous coal (from Alberta mines only)	"	—	100	1
Anthracite coal	"	200	255	3
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	118,641	161,519	64
Fuel oil including kerosene or coal oil	"	1,146,545	975,860	116
Wood	cord	120	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	225,658	176,485	31
(b) Other manufactured gas	M cu.ft.	—	—	—
(c) Natural gas	"	95,045	147,481	145
Other fuel .....	...	—	...	1
Electricity purchased	kwh.	22,564,719	25,456,616	374
Steam purchased .....	...	—	...	—
2. Estimate for small establishments:				
Fuel and electricity .....	...	65	...	55
3. All establishments:				
Total fuel and electricity used .....	...	766	...	807

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Iron:				
Pig iron, all.....	ton	7,982	481	6,273
Castings:				
Iron.....	"	2,181	892	3,138
Steel.....	"	364	161	1,059
Steel, hot or cold-rolled:				
Bars.....	"	764	149	704
Plates.....	"	1,515	329	2,203
Sheets:				
Plain.....	"	28,136	4,616	29,867
Galvanized.....	"	3,694	785	3,678
Tin plate.....	"	633	140	424
Strip.....	"	2,307	393	2,182
Structural shapes (channels, angles, etc.).....	"	642	135	636
Wire.....	"	74	23	68
Pipe and fittings, iron and steel.....		...	359	...
Alloy steel:				
Stainless:				
Billets, bars and rods.....		...	126	...
Other.....		...	604	...
Other alloy steel.....		...	47	...
Ferro-alloys.....		...	92	...
Scrap iron and steel.....	ton	31,657	1,167	32,682
Other iron and steel (except finished parts).....		...	603	...
Non-ferrous metals (including scrap):				
Aluminum:				
Castings.....	pound	247,484	147	656,711
Sheet.....	"	1,731,953	833	1,620,736
Other forms.....	"	933,770	400	1,906,585
Brass and bronze.....	"	1,177,789	509	929,184
Copper:				
Sheet.....	"	200,606	118	139,231
Wire.....	"	8,305	5	4,600
Other forms.....	"	1,105,367	675	1,548,448
Lead.....	"	567	--	687
Babbitt metals and solders.....	"	6,155	4	10,600
Other non-ferrous metals.....		...	1	...
Other materials and supplies:				
Paints and varnishes.....		...	504	...
Foundry coke (used in cupola, not for heat or power).....	ton	8,500	309	7,999
Foundry sands.....	"	14,876	125	13,870
Firebrick and cupola blocks.....		...	104	...
Plumbago and graphite.....	pound	200	--	240
Lumber.....	M ft. b.m.	1,743	171	1,397
Fireclay.....	ton	1,529	48	16
Core oil.....	Imp. gal.	16,941	24	18,600
All other materials and components used ¹.....		...	22,704	...
2. Containers and other packaging materials and supplies used.....		...	755	...
3. Operating, maintenance and repair supplies used (excluding fuel).....		...	1,996	...
4. Amount paid out to others for work done on materials owned by establishments....		...	191	...
Totals.....		...	40,725	...

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,510,898 in 1962 and \$1,644,348 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description		1962		1963	
		Quantity	Value \$'000	Quantity	Value \$'000
1. Products:					
Heating equipment:					
Cast iron sectional heating boilers	No.	5,713	2,343	5,224	2,011
Steel heating boilers	"	2,067	780	2,221	902
Furnaces, warm air:					
Designed for coal or wood burning	"	3,285	903	1,871	689
Designed exclusively for gas burning	"	59,303	7,947	67,941	8,618
Designed exclusively for oil burning	"	54,306	10,040	63,973	12,762
Floor and wall furnace:					
Gas	"	566	70	483	60
Oil	"	2,510	319	1,963	265
Furnace parts		...	70	...	289
Burners for furnaces and boilers:					
Gas:					
Residential	No.	11,986	687	9,300	621
Commercial and industrial	"	2,074	579	1,731	599
Oil (power type):					
Residential	"	37,508	2,721	27,506	1,744
Commercial and industrial	"	3,346	840	2,978	759
Oil burners, range type	"	6,707	223	7,285	250
Oil burner parts		...	156	...	633
Radiators for heating	Sq. ft. E.D.R.	12,710,304	10,556	15,200,725	10,979
Stokers, mechanical:					
Domestic or residential	No.	427	199	514	243
Commercial and industrial	"	159	303	101	107
Stoker parts		...	150	...	1
Commercial cooking and food warming equipment:					
Electric		...	646	...	733
Gas		...	897	...	972
Unit heaters	No.	23,881	4,460	26,652	4,770
Stoves and ranges (all types, all fuels)	"	11,980 ¹	824	19,034	1,111
Stove parts		...	24	...	19
Industrial furnaces, kilns and ovens	No.	129	1,369	224	1,692
Water tank heaters:					
Domestic	"	22,635	729	20,600	888
Parts and attachments for industrial furnaces and ovens		...	253	...	216
Steam traps for heating systems		...	2,308	...	2,434
Incinerators		...	371	...	513
Registers and grills for hot air heating systems		...	3,025	...	3,648
Humidifiers (for warm air systems)		...	1,315	...	1,172
Other heating equipment		...	9,158	...	7,702
Miscellaneous products (air conditioning and refrigeration equipment, agricultural implements and parts, hardware, machinery, etc.)		...	14,102	...	14,123
Amount received for repairs		...	228	...	262
All other products		...	4,926	...	9,056
2. Amount received in payment for work done on materials and products owned by others					
		...	1,333	...	909
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		...	(245)	...	(284)
Net adjustment for establishments receiving progress payments		...	...	...	123
Total adjusted value of shipments and work done		...	84,611	...	91,748

¹ Confidential data, included under "Other heating equipment".

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Power-type Oil Burners, 1954-63

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1954	114,380	11,244	1959	105,097	7,729
1955	125,639	11,282	1960	95,401	6,696
1956	122,675	10,626	1961	96,462	6,467
1957	93,794	7,656	1962	90,551	6,538
1958	99,745	7,726	1963	90,171	6,068

B. Furnace Blowers, 1954-63

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1954	60,127	1,192	1959	212,813	2,555
1955	104,705	1,760	1960	151,834	1,922
1956	120,846	1,907	1961	192,755	2,364
1957	152,723	2,029	1962	170,543	2,090
1958	180,026	2,305	1963	190,164	2,099

C. Mechanical Stokers, 1954-63

Year	Domestic or residential		Commercial or industrial		Total		Value of stoker parts
	Number	Value	Number	Value	Number	Value	
		\$'000		\$'000		\$'000	
1954	809	200	536	885	1,345	1,085	364
1955	791	209	445	717	1,236	926	916
1956	660	156	670	1,217	1,330	1,374	708
1957	754	226	485	877	1,239	1,104	992
1958	691	191	408	885	1,099	1,076	861
1959	1,190	263	430	870	1,620	1,134	530
1960	626	248	330	786	956	1,035	465
1961	509	238	252	600	761	838	266
1962	445	203	221	491	666	694	234
1963	540	255	140	292	680	547	203

D. Unit Heaters, 1954-63

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1954	22,590	4,244	1959	21,686	4,522
1955	23,624	4,427	1960	25,843	5,829
1956	31,387	5,451	1961	22,397	4,341
1957	25,717	6,561	1962	25,564	5,380
1958	17,478	4,120	1963	27,766	5,670

E. Air Registers and Grills, 1954-63

Year	Value	Year	Value
	\$'000		\$'000
1954	1,818	1959	2,971
1955	1,842	1960	2,930
1956	2,461	1961	2,698
1957	2,838	1962	3,318
1958	2,807	1963	4,262

See footnote at end of table.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

F. Heating Radiators, 1962 and 1963

Kind	1962		1963	
	Sq. ft. E.D.R. ²	Value \$'000	Sq. ft. E.D.R. ²	Value \$'000
Standing type, cast iron and pressed steel (excluding tube and fin types)	1,219,021	914	1,398,964	1,051
Baseboard type, cast iron, pressed steel and other fabricated metal	10,220,430	5,993	10,577,269	7,165
Concealed type, cast iron, pressed steel and other fabricated metal .....	...	5,136	...	4,331
Totals .....	...	12,043	...	12,548

G. Warm Air Furnaces, 1954-63

Year	Designed for coal or wood burning		Designed exclusively for oil burning		Designed exclusively for gas burning		Total all types	
	Number	Value \$'000	Number	Value \$'000	Number	Value \$'000	Number	Value \$'000
1954	20,817	2,923	62,473	12,943	10,096	1,761	93,386	17,627
1955	17,698	2,319	90,482	18,725	16,156	3,099	124,336	24,144
1956	15,018	2,072	97,644	18,564	29,662	5,214	142,324	25,860
1957	12,034	1,961	86,177	18,006	45,627	7,669	143,838	27,636
1958	7,289	1,074	88,978	18,019	75,619	12,384	171,886	31,473
1959	6,238	968	95,814	19,151	80,986	12,207	183,038	32,527
1960	5,693	1,205	91,724	18,413	70,423	10,193	167,840	29,812
1961	3,167	792	101,847	20,063	82,563	11,396	187,577	32,241
1962	6,823	1,245	94,771	16,933	83,069	11,204	184,663	29,392
1963	2,659	822	98,137	19,716	92,888	11,846	193,684	32,384

H. Heating and Power Boilers, 1962 and 1963

Type	1962		1963	
	Number	Value \$'000	Number	Value \$'000
Heating boilers:				
Cast iron sectional heating boilers:				
(a) Under 775 sq. ft.	5,106	1,113	4,511	1,057
(b) 776-1,499 sq. ft.	2,043	857	1,742	709
(c) 1,500 sq. ft. and over	1,687	1,817	1,513	1,373
Steel heating boilers:				
(a) Under 112 sq. ft.	5,380	1,510	5,925	1,844
(b) 112-522 sq. ft.	866	2,288	1,075	2,543
(c) 523-1,245 sq. ft.	559	1,860	554	1,656
(d) 1,246 sq. ft. and over	103	714	110	785
Power boilers:				
Marine type	53	914	...	1,108
Water tube package boiler units	114	2,847	141	5,279
Fire tube package boiler units	1,329	4,883	1,523	5,835
Fire tube boilers	3	3	3	3
Boilers, other, type not specified .....	...	16,279	...	26,025
Totals .....	...	35,082	...	48,214

¹ Not including industrial oil burners.

² Equivalent direct radiation.

³ Confidential, included with "Boilers, other".

List of Establishments classified to This Industry, 1963

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

Name	Location
Nova Scotia:	
Angel Mfg. & Supply Co. Ltd.	North Sydney
Enamel & Heating Products Ltd.	Amherst
New Brunswick:	
Bourque, Oscar	Shediac
Quebec:	
Atlas Webster Industries Ltd.	St-Laurent
Burners Ltd., I.C.	2454 Des Carrières St., Montreal
Chaput & Frères, J.B.C.	Boucherville
Combustion & Power Equipment Ltd.	2655 Bates Road, Montreal
Decarie Boiler & Incinerator Ltd.	7592 St-Hubert St., Montreal
Freco Limitée	Charny
General Marine Co. Ltd.	5891 Gouin Blvd., Montreal
Hunt & Moscrop (Canada) Ltd.	Granby
Kres-Kno (Montreal) Ltd.	8255 Durocher St., Montreal
Lemelin Products Inc.	Montmagny
Locker G.R. Co. (The)	5870 Andover Ave., Montreal
Mark Hot Inc.	Ville-St-Michel
Modern Kitchen Equipment Co.	Candiac
National-Shibley Ltd.	St-Jérôme
Quebec Metal Pressing Inc.	340-Sième Rue, Québec
Progress Restaurant & Equipment Mfg. Ltd.	4865 St. Lawrence Blvd., Montreal
Reliable Industries Limited	4609 Iberville St., Montreal
Serv-All Company Inc.	390 Laurendeau Ave., Montreal
Spanner Watts Ltd.	St-Laurent
Sinker Limited	8165 St. Hubert St., Montreal
Terry Burners Inc.	5015 Buchan St., Montreal
Vapor Heating (Canada) Ltd.	3955 Courtrai Ave., Montreal
Velan Engineering Ltd.	Ville-St-Laurent
Crane Piping Limited	2104 Bennett Ave., Montreal
Ontario:	
Abco Steel Products Ltd.	199 A Christie St., Toronto
Aero Tool Works Limited	37 Hanna Ave., Toronto
Aga of Canada Ltd.	Ajax
Ajax Magnethermic Canada Ltd.	Ajax
Allied Metal Ltd.	49 Laing St., Toronto
Anthes-Imperial Co. Ltd.	St. Catharines
Auto-Flo Corp. of Canada Inc.	4240 Ambassador Drive, Windsor
Barlin Scott Mfg. Co. Ltd.	Stoney Creek
Birleco-Lindberg Ltd.	15 Pelham Ave., Toronto
Blackwell Burner Co. of Canada Ltd.	Cooksville
Brantford Engineering & Mfg. Co.	Burlington
Canada Foundries & Forgings Ltd.	Brockville
Canadian Ema Co. Ltd.	Thornbury
Canadian Infra-Red Co. Ltd.	26 Belvia Road, Toronto
Carswell Furnaces Ltd.	Box 160 Gloucester St., Ottawa
Clarge Bros. Ltd.	Preston
Clawsey Sohrt Mfg. Co. Ltd.	Preston
Commercial Controls (Canada) Ltd.	204 Evans Ave., Toronto
Commercial Kitchen Equipment Mfg. Co.	781 Queen St. E., Toronto
Douglas Metal Industries Ltd.	Richmond Hill
Dunham-Bush (Canada) Limited	Weston
Don-Heat Ltd.	Waterford
Eclipse Fuel Eng., of Canada Ltd.	Don Mills
Garland Commercial Ranges Ltd.	41 Medulla Ave., Toronto
Grimsby Stove and Furnace Limited	Grimsby
Hallmac Limited	Hespeler
Hart and Cooley Mfg. Co. of Canada, Limited	Fort Erie N.

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded:	
Hodgings Bros. Limited	Ottawa
Holbeck Tobacco Curing Equipment	Tillsonburg
Howard Furnace & Foundries Ltd.	1151 Victoria Park Ave., Toronto
Ideal Stoker Company Ltd.	500 Wellington St., Toronto
Industrial Process Equip. Co. Ltd.	47 Liberty St. W., Toronto
Iron Fireman Mfg. Co. of Canada, Ltd.	80 Ward St., Toronto
Itiniant, M.	1124 Pierre Ave., Windsor
Kemp Manufacturing Co. Ltd.	Guelph
Lennox Industries (Canada) Ltd.	400 Brown's Line, Toronto
Livingston Stoker Company Limited	33 Sanford Ave. S., Hamilton
Lloyd Register & Grilles Co. Ltd.	30 Six Points Rd., Toronto
Lyman-Prencio Limited	72-74 Stafford St., Toronto
Magicure Manufacturing Ltd.	Simcoe
Niagara Heating Products Ltd.	St. Catharines
Olheiser, Murray, Co.	Kitchener
Olsen W.H., Mfg. Co.	Tilbury
Pepper's Automatic Stokers Limited	240 Adelaide St. W., Toronto
Pettigrew-Savoil Burners Ltd.	Otterville
Roberts-Gordon Appliance Corp. Ltd.	Grimshy
Sana Equipment Limited	112 Rivalda Road, Weston
Sarco Canada Ltd.	Claremont
Smith A.O. International S.A.	Stratford
Summers Manufacturing Ltd.	1203 Roselawn Ave., Toronto
Synchro Combustion Equip. Ltd.	Seaforth
Tempo Tool & Mfg. Co. Ltd.	Dixie
Tobac Curing System Limited	Simcoe
Trane Company of Canada, Limited	401 Horner Ave., Toronto
Wait-Skuttle Company	Oakville
Wayne Forge & Machine Company Ltd.	126 Judge St., Toronto
Welker Industries Company	327 Breithaupt St., Kitchener
Western Foundry Company Limited	Wingham
York Machine Co. Ltd.	3417 Dundas St. W., Toronto
Manitoba:	
Atom-Jet Humidifiers	Box 361 Brandon
Bullock's Limited	Sargent Ave. & Berry St., St. James
Furnasman (Furnace) Ltd.	635 Pembina Highway, Winnipeg
Greensteel Industries Ltd.	975 Logan Ave., Winnipeg
Price Acme of Canada Ltd.	639 Gaisple St., Winnipeg
Progressive Manufacturing Co.	1960 Main St., Winnipeg
Quest Metal Products	949 Erin St., Winnipeg
Silver Line Manufacturing Co. Ltd.	1995 Logan Ave., Winnipeg
Alberta:	
Flame Master Ltd.	6130-97th St. S., Edmonton
Kirk's Heating Limited	Three Hills
Marvel Stoker Products	5735-97th. St., Edmonton
Shannon Bros.	Medicine Hat
Sure Flame Tank Heater	Granum
British Columbia :	
Airco Products Ltd.	205 West 5th Ave., Vancouver
Burnaby Engineering & Prefab Ltd.	North Burnaby
Dickinson's Ltd.	1276 Howe St., Vancouver
Evans Perry Incinerators Ltd.	5669 Tyne St., Vancouver
Kumfort Furnace Co. Ltd.	5669 Tyne St., Vancouver
McDonnell Metal Manufacturing Company Limited	1250 Boundary Road, Vancouver
Rees Burners Ltd.	1331 West 6th Ave., Vancouver
Taggart Manufacturing Co. Ltd.	North Burnaby

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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 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 activity

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. 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. 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.). 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 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 materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By 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

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

(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 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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