41-225





HEATING EQUIPMENT MANUFACTURERS 1964

ANNUAL CENSUS
OF MANUFACTURES

Published by Authority of The Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS

Industry Division



November 1966 6506-814

Price: 50 cents

The contents of this document may be used freely more than the credited when republishing all or any part of it.

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.

Catalogue			Pr	ice
number	Title	Periodicity	Per	Per year
31 - 001	Inventories, Shipments and Orders in Manufacturing Industries	A		\$3.00
31 - 201	General Review of the Manufacturing Industries in Canada	A		2.00
41 - 223	Boiler and Plate Works	Α		.50
41 - 225	Heating Equipment Manufacturers	A		.50
41 - 005	Stoves and Furnaces	M	.10	1.00
64 - 202	Household Facilities and Equipment	Α		.50
65 - 004	Exports by Commodities	M	.75	7.5
65 - 007	Imports by Commodities	M	.75	7.50
	6522 - 838 Heating Boilers and Radiators	M	Spec	cial
_	6522-839 Domestic Water Tank Heaters	M	Spec	cial

A - Annual

M - Monthly

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information and Public Relations Division, Ottawa or to the Queen's Printer, Hull, P.Q.



HEATING EQUIPMENT MANUFACTURERS

1964

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.

The principal statistics of this industry indicate that during 1964 the value of shipments of products of own manufacture increased by 10 per cent, materials used increased by 9.9 per cent and value added increased by 11.9 per cent. The value of materials used represented 47 per cent of the value of production in 1964 and value added represented 49.8 per cent of the value of production for the same period.

The value of heating equipment manufactured by the firms classified to this industry represented 71.5 per cent of their total production in 1964. Other major items reported were air conditioning, cast iron soil pipe, aluminum extrusions, travel trailers, trucks bodies, fans and machinery.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-64

				Man	ufacturing	activity				Т	otal activ	rity	
Year and	Estab-		duction :		Cost of	Cost of	Value of shipments	Synlan		g owners artners	Emp	loyees	Value
province	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		,000			\$'000				\$'000		\$,0	00
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													
Totals	103	3, 561	7,406	14, 298	766	40, 725	84, 611	43,679	17	74	5,349	23, 399	46,387
1963					*		!						
1903													
Newfoundland	-	_	_	_	-	-	-	_	_	_	-	_	_
Prince Edward Island	_	_	_	_	_	_	-	ther	_	_	_	-	_
Nova Scotia	2	x	х	Х	Х	Х	Х	х	Х	X	X	X	х
New Brunswick	1	X	Х	Х	X	X	х	Х	-	_	Х	Х	х
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	266	545	1,040	52	3,807	6,609	3,010	_	_	347	1,420	3,169
Saskatchewan	-	_	_	_		_	-	-	_	-	-	_	_
Alberta	5	х	X	х	Х	х	х	х	X	х	Х	Х	Х
British Columbia	8	108	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	25,268	47, 401
1964												!	
Newfoundland	_		_	-	_	_	_	_	_	_	_	_	_
Prince Edward Island	_	_	_	_	_	_	_	_	_	-	_	_	-
Nova Scotia	2	x	x	х	x	х	x	х	x	x	x	х	х
New Brunswick	1	х	x	х	х	x	x	х	_	_	x	х	х
Quebec	26	1,319	2,894	5.737	200	15,254	29,947	15, 109	х	ж	1,846	8,854	15, 234
Ontario	57	1,917	4,079	8, 228	500	29,090	57,297	28,520	6	29	3,077	14,866	30,934
Manitoba	9	282	603	1,217	53	3,887	6, 945	2,914	_	_	370	1,622	3,065
Saskatchewan	-	_	_	_	_	_	_	_	_		_	-	_
Alberta	5	х	х	x	x	х	х	х	х	х	х	х	x
British Columbia	10	143	299	609	54	1,810	3,247	1,523	_	Store	204	938	1,614
Yukon and Northwest Territories	_	_	_	_	_	-	_	-	-	_	-	-	-
Totals	110	3, 795	8, 150	16, 308	839	51,341	100,571	49, 918	11	42	5,673	26, 996	52,754

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

				ILB IM	ufacturing	activity				Т	otal activ	V11 v	
Size group	Estab- lish- ments		duction a sted work		Cost of	Cost of	Value of shipments of goods	Value	Working and pa		Empl	loyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'(000
1963													
nder \$10,000	} 9	4	8	13	3	49	130	79	10	30	7	20	7
25,000 ' 49,999	5 18 11 23 13 25 3	12 86 91 413 399 1,725 974	24 177 198 866 863 3,759 2,030	46 333 343 1,468 1,582 6,979 4,488	3 18 17 89 101 346 230	69 601 660 3,337 4,795 28,560 8,712	178 1,336 1,475 7,484 9,255 49,786 22,103	112 702 803 4,275 4,201 21,283 13,150	- 2 - 2 -	- 11 - 9 -	19 127 119 554 570 2,651 1,499	77 526 468 2,319 2,403 12,198 7,029	12° 78 82° 4,65° 4,65° 22°,39° 13,89°
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	47,40
1964													
nder \$10,000	3	2	4	5	1	9	26	17	3	4	2	5	1
10,000 to \$ 24,999	} 6	8	16	29	3	43	124	79	4	12	13	50	9
50,000 " 99,999	20 12 25 14	89 115 345 404	180 232 722 890	355 451 1,333 1,591	22 15 85 114	697 728 3,723 5,198	1,560 1,698 7,771 10,023	865 969 4,098 4,974	- 2 - 2 	11 15	137 142 490 621	555 577 2, 260 2, 760	92 99 4,63 5,34
5,000,000 and overead offices, sales offices and auxiliary units	} 30	2,832	6,105	12,543	601	40,943	79,369	38,915	-	-	4,268	20,790	40.74
Totals	110	3, 795	8, 150	16, 308	839	51, 341	100, 571	49.918	- 11	42	5,673	26, 996	52,75

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

				Mar	ufacturing	activity				1	otal acti	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Vaiue	Working and pa	owners	Empl	loyees	Value
100		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$1000		\$10	00
1963					1	1		ı					
Under \$10,000	6 11 11 16 16 24 13	19 54 132 237 688 622	4 42 109 280 506 1,481 1,252	6 74 207 496 876 2,633 2,465	2 6 11 28 59 158 143	29 237 328 1,296 3,085 10,192 12,496	75 442 762 2,449 5,354 17,433 21,500	43 196 417 1,137 2,270 7,062 9,367	7 3 2 - 2 - 2 -	20 11 11 - 9	33 80 177 327 999 955	6 124 330 715 1,421 4,381 4,244	42 210 497 1.154 2,388 7,471 10,715
1,000,000 ' 4,999,999 5,000,000 and over	} 10	1,950	4,251	8,492	401	19,210	43,732	24,113	_	_	2,973	13,818	24,924
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
1964													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 200,000 " 499,999 500,000 " 999,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, saies offices and auxiliary units	} 9 15 18 21 22 12 13	10 54 161 271 659 569 2,071	20 110 326 556 1,447 1,183 4,508	30 211 637 1,023 2,615 2,284 9,507	14 24 78 151 127 442	80 498 1,026 3,328 10,911 10,589 24,910	178 1,066 2,368 6,467 16,160 18,638 53,694	95 565 1,346 3,223 7,281 8,321 29,087	2 - - -	15 11 15 -	13 86 211 390 980 852 3,141	41 334 878 1,768 4,327 3,791 15,857	102 583 1,420 3,702 7,663 8,815 36,654
Totals	110	3, 795	8,150	16, 308	839	51, 341	100,571	49,918	11	42	5,673	26,996	52,754

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

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab-		duction a ated work		Cost of	Cost of	Value of shipments	27.3	Working and pa	owners	Empl	loyees	97.3
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		000			\$'000				\$'000		\$10	100
1963					1								
Under \$10,000	6 9 10 18 16 25	2 14 30 149 225 712 482	32 61 314 482 1,529 960	6 54 117 557 835 2,724 1,815	2 5 7 29 57 163 100	29 215 243 1,362 2.876 10,442 9,006	75 375 584 2,598 5,021 17,863 16,160	43 151 332 1,219 2,142 7,237 7,558	7 3 2 - 2 - 2	20 11 11 - 9	2 25 45 202 310 1,034 725	6 91 192 809 1,350 4,529 3,082	42 150 346 1, 262 2, 272 7, 691 8, 594
1,000,000 '' 4,999,999 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
Totals	107	3, 704	7, 924	15, 250	807	46, 784	91, 748	44, 605	14	49	5, 586		47,40
1964													
Under \$10,000	9 15 17 20 23 13	10 54 148 264 656 592	20 110 300 538 1,435 1,239	30 211 585 975 2,612 2,388	4 14 21 73 147 138	80 498 987 2,946 10,727 11,193	178 1.066 2,278 5,818 17,976 19,560	95 565 1, 293 2, 927 7, 166 8, 785	7 2 - 2 -	15 11 - 15 -	13 86 192 365 967 909	334 800 1,577 4,303 4,085	102 583 1, 317 3, 118 7, 780 9, 385
1,000,000 " 4,999,999 5,000,000 and over	} 13	2.071	4, 508	9,507	442	24,910	53, 694	29,087	-	-	3, 141	15, 857	30, 468
Totals	110	3, 795	8, 150	16, 308	839	51, 341	100, 571	49.918	11	42	5, 673		52, 754

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

				Mar	nufacturing	activity				1	Total acti	vity	
Size group	Estab-		oduction ated work		Cost of	Cost of materials	Value of shipments of goods	Value		owners artners	Emp	loyees	Value
	ments	Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		*000			\$'000		L		\$'000		\$'0	00
1963							1						
Under 5 employed	20 26 33 15 6	23 169 657 707 500	49 359 1,436 1,427 1,065	87 664 2,650 2,501 2,153	10 39 165 145 135	353 1,755 11,453 8,864 9,172	718 3, 878 18, 994 16, 987 15, 340	350 2, 119 7, 412 8, 166 6, 405	11 1 2 -	34 7 9 —	42 242 970 987 797	167 1,040 4,530 3,911 3,608	364 2, 283 8, 196 8, 808 6, 905
200-499 " 500 employed and over Head offices, sales offices and auxiliary units	} 7	1,648	3, 589	7, 195	313	15, 187	35, 831	20, 153	-	-	2,508	11, 781	20,845
Totals	107	3, 704	7, 924	15, 250	807	46. 784	91, 748	44, 605	14	49	5, 586	25, 268	47, 401
I UNGLO	101	3, 104	1, 344	13, 230	801	40, 104	31, 140	**, 003	14	10	3, 300	20, 200	41,401
1964													
Under 5 employed	12 32 35 17 6	11 192 652 733 483 1.724	22 389 1,389 1,556 1,017 3,776	39 776 2,566 2,881 2,210 7,837	7 44 140 178 97	222 2, 013 10, 844 11, 681 9, 067	471 4, 324 19, 274 20, 712 15, 719 40, 071	241 2, 366 8, 497 9, 331 6, 647 22, 836	8 1 2 - -	19 7 15	20 278 958 1,119 746 2,552	75 1,204 4,465 4,853 3,676	247 2,535 9,048 10,085 7,146 23,692
Head offices, sales offices and auxiliary units					. , ,						* * *		• • •
Totals	110	3, 795	8, 150	16, 308	839	51, 341	100, 571	49, 918	11	42	5, 673	26, 996	52, 754

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

				Man	ufacturing	activity				7	Total acti	vity	
Type of organization	Estab-		duction ated work		Cost of	Cost of	Value of shipments			owners artners	Empl	oyees	
o gamma ou	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$10	000
1963	1												
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	4 4 0		5,516	24,910	46, 957
Co-operatives	-	_	-		_	- 8	-	-			_	-	_
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
1004												1.0	
1964	,								į.	1			
individual ownerships	8	23	50	72	7	262	545	279	11	42	28	96	279
Partnerships)												
incorporated companies	102	3,772	8, 100	16, 236	832	51,079	100,026	49,639			5, 645	26, 900	52, 474
Co-operatives	_	-	-	_	_	_	_	_			-	_	****
Head offices, sales offices and auxiliary units					* * *						* * #	* 4 4	
Totals	110	3, 795	8, 150	16, 308	839	51,341	100, 571	49, 918	-11	42	5, 673	26, 996	52, 754

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

	Manufact activi		Non-manufa activiti		Tota activi	
	1963	1964	1963	1964	1963	1964
			\$1000)		
Output	1					
1. Shipments and other revenue	91, 748	100, 571	13, 784	13, 123	105, 532	113,694
Inventories - Goods of own manufacture:						
Add closing - Goods in process	3, 139	4,097		• • •	3, 139	4,097
Finished goods	7,540	7, 733			7,540	7, 733
Deduct opening - Goods in process	3,536	3,360	a • •		3,536	3,360
Finished goods	6,696	6, 943		* * *	6,696	6,943
2. Net inventory change	447	1,527			447	1,527
3. Gross output (1+2)	92, 195	102, 098	13, 784	13, 123	105,979	115, 221
Input						
4. Purchases of goods not of own manufacture		***	10, 095	9, 900	10,095	9, 900
Inventories - Goods not of own manufacture:						
Add opening		***	1,483	1,316	1,483	1,316
Deduct closing		0 = 0	1, 278	1,656	1, 278	1,656
5. Cost of goods sold (not of own manufacture)		* * *	10, 300	9,560	10,300	9,560
6. Materials, supplies, etc.	46,784	51, 341	687	728	47, 471	52,069
7. Fuel and electricity	807	839	* * *		807	839
8. Gross input (5 + 6 + 7)	47,591	52, 180	10, 987	10, 288	58,578	62, 403
Value added (3 - 8)	44, 605	49, 918	2, 796	2, 835	47, 401	52, 754

TABLE 8. Employment and Payroll, 1963 and 1964

					Emplo	yees						Salari	es and wa	ges	
Year		Product related		The l		inis-		les	To	tal	Producti		Admin-	Sales	
and province	Manufa	cturing	0	ther	and o	office		nd bution	10	u au	related w	vorkers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
					numi	er							\$'000		
1963									1						
Newfoundland	_	_	_	_	-	-	_	_		_	-	-	_	_	_
Prince Edward Island	-	***	_	-	_	- 1	_	-	-	_		_		_	_
Nova Scotia	X	-		-	х	x	х		х	X	х	-	х	х	Х
New Brunswick	X	_	_	-	х	X	Х	_	Х	X	х	_	X	Х	х
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	3 83	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	-	_	_	х	X	х		х	х	x	-	x	х	х
British Columbia	102	6	_	_	28	10	20	_	150	16	466	_	195	86	74
Yukon and Northwest Terri- tories	_	_	_	_	_	-	_	_	_	_	-	_	_	_	mpro
Totals	3, 616	88	15	-	949	380	478	60	5,058	528	15, 250	74	6, 750	3, 194	25, 26
1964		l													
Newfoundland	_	_	_	_	_	-		_	_	_	-	_	_	_	_
Prince Edward Island	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Nova Scotia	x	_	_	_	x	х	х	_	х	x	x	_	X	x	x
New Brunswick	x	_	-	_	x	_	_	-	x	-	x	_	x	_	x
Quebec	1,305	14	1	_	287	89	139	11	1,732	114	5,737	5	2,029	1,084	8, 85
Ontario	1,847	70	6	_	557	241	298	58	2,708	369	8,228	32	4,437	2.168	14.86
Manitoba	282	_	_	_	58	15	15	_	355	15	1,217	_	327	78	1,62
Saskatchewan	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-
Alberta	x	-	_	_	×	x	x	-	x	x	х	-	x	x	x
British Columbia	133	10	_	_	33	12	16	_	182	22	609	-	246	82	93
Yukon and Northwest Terri- tories		_	_	_	_	_	_		_	_	_	_	_	_	_
Totals	3, 701	94	7	-	956	365	481	69	5, 145	528	16, 308	37	7. 155	3, 496	26, 99

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

	196	3	196	64
Month	Male	Female	Male	Female
		numb	er	
Stablishments reporting monthly detail (large establishments only):	1	1	-	
January	3, 228	71	3,501	8'
February	3,253	73	3,529	81
March	3,152	69	3,557	88
April	3,209	66	3,484	7
May	3,322	75	3,466	8
June	3,453	77	3,616	10
July	3.554	78	3,627	9
August	3,558	83	3, 244	9
September	3,558	84	3,341	9
October	3,559	78	3,443	9:
November	3,408	80	3,424	9:
Describer	3,288	81	3,382	9
Averages	3,378	76	3,473	9
stublishments reporting annual averages (small establishments only)	238	12	228	4
iverage for all establishments	3,616	88	3,701	9

TABLE 10. Inventories, 1964

		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
Opening:			book value	\$'000		
Newfoundland Prince Edward Island	_	_	-	_	_	
		_	_	_	_	_
Nova Scotia	X X	x -	X	X	_	X
New Brunswick	~	X 788	X 010	X	000	X 000
Quebec	2,779 4,889		1,018	4,584	275	4,860
Ontario	778	2.166	4,681	11,736	948	12,684
Manitoba	778	239	738	1,756	4	1,760
Saskatchewan	-		_		_	_
Alberta	х	х	x	х	_	х
British Columbia	161	108	188	457	89	546
Yukon and Northwest Territories	-	_	-	_	-	
Totals	8, 992	3, 360	6, 943	19, 295	1,316	20,611
Closing:						
Newfoundland	-	_		_	-	_
Prince Edward Island			_	_	Men	_
Nova Scotia	x	х	x	x	_	x
New Brunswick	x	x	x	x	_	x
Quebec	2,779	1,064	1,357	5,200	396	5,596
Ontario	4,452	2,531	5,129	12,113	968	13,080
Manitoba	851	283	604	1,738	121	1,860
Saskatchewan	_	_	_	_		-1
Alberta	x	x	x	x	_	x
British Columbia	223	144	292	659	171	830
Yukon and Northwest Territories	_	_	_	_	_	
Totals	8, 732	4, 097	7,733	20, 562	1,656	22, 219

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

Description		1963		1964	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadlan mines	ton	969	12	_	_
(b) Imported	44	345	5	417	6
Sub-bituminous coal (from Alberta mines only)	49	100	1	95	1
Anthracite coal		255	3	279	4
Lignite coal		_		- 1	_
Coke		_	-	_	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	161,519	64	104,525	40
Fuel oil including kerosene or coal oll	4.0	975, 860	116	1,202,083	147
Wood	cord	_	witter	-	enter .
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	176,485	31	243,603	42
(b) Other manufactured gas	M cu. ft.	-	-	-	entpr
(c) Natural gas		147,481	145	191,440	176
Other fuel	*****		1	***	1
Electricity purchased	kwh.	25, 456, 616	374	31,977,706	369
Steam purchased			-	* * *	Mari
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity			55	* * *	53
3. All establishments:		15	TOTAL PLANTS		
Total fuel and electricity used			807		839

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

Description		1963		1964		
Description		Quantity	Cost	Quantity	Cost	
			\$1000		\$*000	
l. Materials used:						
Iron:						
Pig iron, ali	ton	6, 273	357	6,066	367	
Castings:		0.100	05	0.004		
Iron		3, 138	1, 107	2,891	1,038	
Steel		1,059	301	2,677	863	
Steel, hot or cold-rolled:	*4				1	
Bars	**	704	119	697	145	
Plates		2, 203	493	2,071	546	
Sheets:	44	20.00	5 110	01.500	6 000	
Plain	24	29,867	5, 118 810	31,598	5, 237	
Tin plate	**	3,678 424	85	3,821	109	
Strip	44	2, 182	367	2,804	454	
Structural shapes (channels, angles, etc.)	8.4	636	126	707	153	
Wire	44	68	30	144	33	
Pipe and fittings, iron and steel			329		503	
			020		00%	
Alloy steel: Stainless:						
Billets, bars and rods			100		6.1	
Other			122 687	8 + 1	51	
Other alloy steel		* * *	33	***	757	
		* * *				
Ferro-alloys			116		115	
Scrap iron and steel	ton	32,682	1,231	22, 246	842	
Other iron and steel (except finished parts)			647	* * *	712	
Non-ferrous metals (including scrap):						
Aluminum:						
Castings	pound	656,711	421	659, 745	433	
Sheet	11	1,620,736	712	1, 498, 743	681	
Other forms	44	1,906,585	856	2,046,297	956	
Brass and bronze	44	929, 184	431	813, 211	354	
Copper:						
Sheet	# 4	139,231	91	122,359	79	
Wife	#4	4,600	2	7,328	5	
Other forms	**	1, 548, 448	1,079	1,672,182	1,099	
Lead	44	687]	877		
Babhitt metals and solders	44	10,600	8	11,785	10	
Other non-ferrous metals			171		151	
Other materials and supplies:						
Paints and vamishes			483	A 6 5	580	
Foundry coke (used in cupola, not for heat or power)	ton	7, 999	290	6. 291	238	
Foundry sands	8.0	13,870	121	9,514	93	
Firebrick and cupola blocks			106		161	
Plumbago and graphite		240	**	306		
Lumber	M ft. b.m.	1,397	174	3, 169	304	
Fireclay	ton	16	1	594	19	
Core oil	Imp. gal.	18,600	28	17,079	25	
All other materials and components used1		***	26, 678	* 0 q	30,076	
2. Containers and other packaging materials and supplies used	= -	(M (CMD)	830		844	
3. Operating, maintenance and repair supplies used (excluding fuel)		141	2, 034	* * *	1,888	
Amount paid out to others for work done on materials owned by establishments			188	* * *	524	

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,644,348 in 1963 and \$1,915,615 in 1964.

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

Description		1963		1964		
Description		Quantity	Value	Quantity	Value	
			\$'000		\$'000	
Products:						
Heating equipment:						
Cast iron sectional heating boilers	No.	5, 224	2,011	4,731	1,70	
Steel heating boilers	**	2, 221	902	2,548	94	
Furnaces, warm air:						
Designed for coal or wood burning	**	1,871	689	1,681	6:	
Designed exclusively for gas burning	##	67,941	8,618	73, 157	9,70	
Designed exclusively for oil burning	8.6	63,973	12,762	66,750	13, 2	
Floor and wall furnace:						
Gas	0.0	483	60	273		
011	4.6	1,963	265	2,543	3	
Furnace parts			289		2	
Burners for furnaces and boilers:						
Gas:						
Residential	No.	9.300	621	8,765	5	
Commercial and industrial	44	1, 731	599	2, 375	8	
Oil (power type):		1, 131	000	2,010	0	
	**	27 506	1 744	22 400	2 2	
Residential	4.4	27, 506	1,744	33,488	2, 3	
Commercial and industrial	44	2, 978	759	5,969	1, 3	
Oil burners, range type		7, 285	250	6,569	2	
Oil burner parts			633		6	
Radiators for heating So	q. ft. E.D.R.	15, 200, 725	10,979	15,520,951	9, 4	
Stokers, mechanical:						
Domestic or residential	No	514	246	488	2	
Commercial and industrial	4.6	101	187	55	1	
Stoker parts		м	2		1	
Commercial cooking and food warming equipment:						
Electric			733		8	
Gas	·	• • •	972		8	
Unit heaters	No.	26, 652	4,770	31,921	5,4	
Stoves and ranges (all types, all fuels)	44	19,034	1,111	20, 254	1, 2	
Stove parts			19		1, 2	
Industrial (umaces, kilns and ovens	No.	224	1, 692	312	3, 1	
			2,002			
Water tank heaters:						
Domestic	4.0	20,600	888	20,701	7	
Parts and attachments for industrial furnaces and ovens		- + +	216		1	
Steam traps for heating systems		4 4 4	2, 434	+ 0 0	1,7	
Incinerators			513	***	4	
Registers and grills for hot air heating systems			3,648	***	3, 5	
Humidifiers (for warm air systems)		1 * *	1,172	e > =	1, 1	
Other heating equipment		* * *	7.702	***	9,8	
Miscellaneous products (air conditioning and refrigeration equipment, agri-			14, 123		15,8	
cultural implements and parts, hardware, machinery, etc.)		0 4 4	17, 140	0 0 0	10,0	
Amount received for repairs			262	***	5	
ll other products			9,056	0 0 0	11,8	
mount received in payment for work done on materials and products owned by others			909	-1 -2 -1	2	
ess adjustment for value of sales taxes, excise duties and outward trans-		* * *	300			
portation charges which could not be deducted from individual commodity items described above.		* * *	(284)	- 9 0	(3	
			199		4	
et adjustment for establishments receiving progress payments		0 6 4	153	* * *		
Total adjusted value of shipments and work done			91,748		100, 5	

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

TABLE 14. 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, 1955 - 64

Year	Number	Value	Year	Number	Value
		\$,000			\$'000
1955	125,639	11,282	1960	95,401	6,696
956	122,675	10,626	1961	96,462	6,467
957	93,794	7,656	1962	90,551	6,538
958	99,745	7,726	1963	90, 171	6,068
959	105,097	7,729	1964	94,240	6,704

B. Furnace Blowers, 1955-64

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
1955	104,705	1,760	1960	151,834	1,922
956	120,846	1,907	1961	192, 755	2,364
957	152,723	2,029	1962	170,543	2,090
958	180,026	2, 305	1963	190, 164	2,099
959	212, 813	2,555	1964	191, 986	2,117

C. Mechanical Stokers, 1955-64

Year	Domestic or residential		Commercial or industrial		Total		Value of stoker
	Number	Value	Number	Value	Number	Value	parts
		\$'000		\$'000		\$'000	\$'000
955	791	209	445	717	1, 236	926	916
956	660	156	670	1, 217	1,330	1,374	708
957	754	226	485	877	1, 239	1, 104	992
958	691	191	408	885	1,099	1,076	861
959	1, 190	263	430	870	1.620	1, 134	530
960	626	248	3 30	786	956	1,035	465
961	509	238	252	600	761	838	266
962	445	203	221	491	666	694	234
963	540	255	140	292	680	547	203
964	494	236	158	627	652	863	320

D. Unit Heaters, 1955 - 64

Year	Number	Value	Year	Number	Value
W		\$'000			\$*000
955	23.624	4,427	1960	25,843	5,829
956	31,387	5,451	1961	22,397	4,341
957	25,717	6, 561	1962	25,564	5,380
958	17,478	4, 120	1963	27,766	5,670
959	21,686	4,522	1964	34, 164	6,620

E. Air Registers and Grills, 1955-64

Year	Value	Year	Value
	\$'000		\$'000
955	1,842	1960	2,930
956	2,461	1961	2,698
957	2,838	1962	3,318
958	2,807	1963	4,262
959	2, 971	1964	3,884

See footnote at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded F. Heating Radiators, 1963 and 1964

Kind	1963		1964		
Alira	Sq. ft. E D.R. ²	Value	Sq. ft E.D.R.2	Value	
		\$'000		\$'000	
Standing type, cast iron and pressed steel (excluding tube and fin types)	1,398,964	1,051	1,754,533	1, 071	
Baseboard type, cast iron, pressed steel and other fabricated metal	10,577,269	7, 165	12,721,833	7,370	
Concealed type, cast iron, pressed steel and other fabricated metal	***	4,332		3, 299	
Totals		12, 548		11, 740	

G. Warm Air Furnaces, 1955-64

No.	Designed for coal or wood burning		Designed exclusively for oil burning		Designed exclusively for gas burning		Total all types	
Year	Number	Value	Number	Value	Number	Value	Number	Value
1 32 mg m m		\$'000		\$'000		\$'000		\$*000
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, 850
1957	12,034	1,961	86, 177	18,006	45,627	7,669	143, 838	27, 638
1958	7,289	1,074	88, 978	18,019	75,619	12,384	171,886	31, 478
1959	6, 238	968	95,814	19, 151	80.986	12, 207	183,038	32, 327
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, 251
1962	6,823	1,245	94,771	16,933	83,069	11, 204	184,663	29, 382
1963	2,659	822	98, 137	19,716	92,888	11,846	193, 684	32, 384
1964	2, 205	746	107, 195	22,450	102, 417	14, 115	211.817	37.311

H. Heating and Power Boilers, 1963 and 1964

Туре	1963		1964		
хуре	Number	Value	Number	Value	
		\$'000		\$*000	
Heating boilers:					
Cast iron sectional heating boilers:					
(a) Under 775 sq. ft.	4,511	1.057	4,198	1, 159	
(b) 776-1,499 sq. ft.	1.743	709	1,509	622	
(c) 1,500 sq. ft. and over	1,513	1,573	1,464	1, 408	
Steel heating boilers:			ibi		
(a) Under 112 sq. ft	5,928	1,844	7,081	2, 256	
(b) 112-522 sq. ft	1,075	2,543	516	962	
(c) 523-1,245 sq. ft	554	1,656	420	797	
(d) 1,246 sq. ft. and over	110	785	92	472	
Power boilers:					
Marine type		1, 108	157	1,335	
Water tube package boiler units	141	5,279	100	5, 375	
Fire tube package boiler units	1,523	5,635	2, 154	9, 186	
Fire tube boilers	3	1	3	3	
Boilers, other, type not specified	P b p	26, 025	1 * *	25, 998	
Totals		48, 214		49,570	

Not including industrial oil burners.
 Equivalent direct radiation.
 Confidential, included with "Boilers, other".

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				
Nova Scotia:					
	187				
Angel Mfg. & Supply Co. Ltd.					
Fnamel & Heating Products Ltd.	Amherst				
New Brunswick:					
Bourque, Rullard Ltd.	225 Main St., Shediac				
Donger Transit 2741	223 Main St., Shediac				
Quebec:	- 1 / V				
Atias Webster Industries Ltd.	2760 Laurentian Blvd., St-Laurent				
Burners Ltd., I.C.	The state of the s				
Chaput & Frères, J.B.C.					
Combustion & Power Equipment Ltd.					
Decarie Boiler & Incinerator Ltd.					
Freco Limitée					
General Marine Co. Ltd.					
Howard Furnace Ltd.					
Hunt & Moscrop (Canada) Ltd.					
Kres-Kno (Montreal) Ltd.					
Lemelin Products Inc.					
Locker G.R. Co. (The)					
Mark Hot Inc.					
Modern Kitchen Equipment Co.					
National-Shipiey Ltd.					
Produits de chauffage J & L. Ltée	1				
Progress Restaurant & Equipment Mfg. Ltd.					
Quebec Metal Inc.					
Reliable Industries Ltd.					
Rock Utilities (1963) Ltd.					
Serv-All Company Inc.					
Spanner Watts Ltd.					
Stoker Limited					
Terry Burners Inc.					
Vapor Heating (Canada) Ltd.					
Velan Engineering Ltd.	2125 Ward Ave., Montreal 9				
Ontario;					
Aero Tool Works Limited	37 Hanna Ave., Toronto				
Aga of Canada Ltd.	Ajax				
Ajax Magnethermic Canada Ltd.	Ajax				
Allied Metal Ltd.					
Anthes-Imperial Co. Ltd.	Berryman Ave., St. Catharines				
Auto-Flo Corp. of Canada Inc.	4240 Ambassador Drive. Windsor				
B-L Furnaces Ltd.					
Barlin Scott Mfg. Co. Ltd.					
Blackwell Burner Co. of Canada Ltd.					
Canadian Infra-Red Co. Ltd.					
Carswell Furnaces Ltd.					
Clare Bros. Ltd.					
Clamsey Sohrt Mfg. Co. Ltd.					
Commercial Controls (Canada) Ltd.					
Commercial Kitchen Equipment Mfg. Co.					
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd.	Richmond Hill				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited	Richmond Hill 140 Wendell Ave., Weston				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited. Duo-Heat Ltd.	Richmond Hill 140 Wendell Ave., Weston Waterford				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited Duo-Heat Ltd. Eclipse Fuel Eng., of Canada Ltd.	Richmond Hill 140 Wendell Ave., Weston Waterford 20 Upjohn Rd., Don Mills				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited. Duo-Heat Ltd. Eclipse Fuel Eng., of Canada Ltd. Garland Commercial Ranges Ltd.	Richmond Hill 140 Wendell Ave., Weston Waterford 20 Upjohn Rd., Don Mills 41 Medulla Ave., Toronto				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited. Duo-Heat Ltd. Eclipse Fuel Eng., of Canada Ltd. Garland Commercial Ranges Ltd. Grimsby Stove and FurnaceLimited.	Richmond Hill 140 Wendell Ave., Weston Waterford 20 Upjohn Rd., Don Mills 41 Medulla Ave., Toronto Grimsby				
Commercial Kitchen Equipment Mfg. Co. Douglas Metal Industries Ltd. Dunham-Bush (Canada) Limited. Duo-Heat Ltd. Eclipse Fuel Eng., of Canada Ltd. Garland Commercial Ranges Ltd.	Richmond Hill 140 Wendell Ave., Weston Waterford 20 Upjohn Rd., Don Mills 41 Medulla Ave., Toronto Grimsby Hespeler				

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location	
Ontario - Concluded		
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.		
Kemp Manufacturing Co. Ltd.	19 Petrolia St., Guelph	
Lennox Industries (Canada) Ltd.		
Livingston Stoker Company Limited	33 Sanford Ave. S., Hamilton	
Lloyd Register & Grilles Co. Ltd.		
Lyman-Prenco Limited		
Niagara Heating Products Ltd.		
Nixon, W. E. & Co.		
Oldheiser, Murray, Co.		
Olsen W. H. Mfg. Co.		
Peabody Engineering Corp. of Canada Ltd.		
Pepper's Automatic Stokers Limited		
Pettigrew-Savoil Burners Ltd.		
Roberts-Gordon Appliance Corp. Ltd.		
Sana Equipment Limited		
Sarco Canada Ltd.		
Slant Fin Ltd.		
Smart, James Mfg. Co. Ltd.		
Smith A. O. International S. A.		
Svindell Dresster Corp. of Canada Ltd.		
Summers Manufacturing Ltd.		
Synchro Combustion Equip. Ltd.		
Tempo Tool & Mfg. Co. Ltd.		
Temprite Industries Ltd.		
Tobac Curing System Limited		
Trane Company of Canada, Limited		
Wait-Skuttle Company		
Wayne Forge & Machine Company Ltd.		
Western Foundry Company Limited		
York Machine Co. Ltd.	3417 Dundas St. W., Toronto	
Manitoba:		
Atom-Jet Humidifiers Ltd.	Box 361, Brandon	
Bullock's Limited		
Furnasman Metal Ltd.		
Greensteel Industries Ltd.		
Hudson Heating & Ventilation Ltd.		
Price Acme of Canada Ltd.		
Progressive Manufacturing Co.	1960 Main St., Winnipeg	
Quest Metal Products		
Silver Line Manufacturing Co. Ltd.		
Silver Line manufacturing Co. Lad	Itas Logan Ave., Williams	
Alberta:		
Flame Master Ltd.	6130 - 97th St. S., Edmonton	
Klrk's Heating Limited	Three Hills	
Marvel Stroker Products	5735 - 97th St., Edmonton	
Shannon Bros.		
Sure Flame Tank Heater		
British Columbia:		
Airco Products Ltd.		
Burnaby Engineering & Prefab Ltd.		
Dickinson's Ltd.		
Eburne Sheet Metal Ltd.	1405 S.W. Marine St., Vancouver	
Evans Perry Incinerators Ltd.		
	16 E. Hastings St., Vancouver	
Evans Perry Incinerators Ltd.		
Evans Perry Incinerators Ltd	5669 Tyne St., Vancouver	
Evans Perry Incinerators Ltd. Industrial Process Heat Engineering Ltd. Kumfort Furnace Co. Ltd.	5669 Tyne St., Vancouver 1250 Boundary Road, 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 it's 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, vicepresidents, 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 companyoperated 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 tild 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).

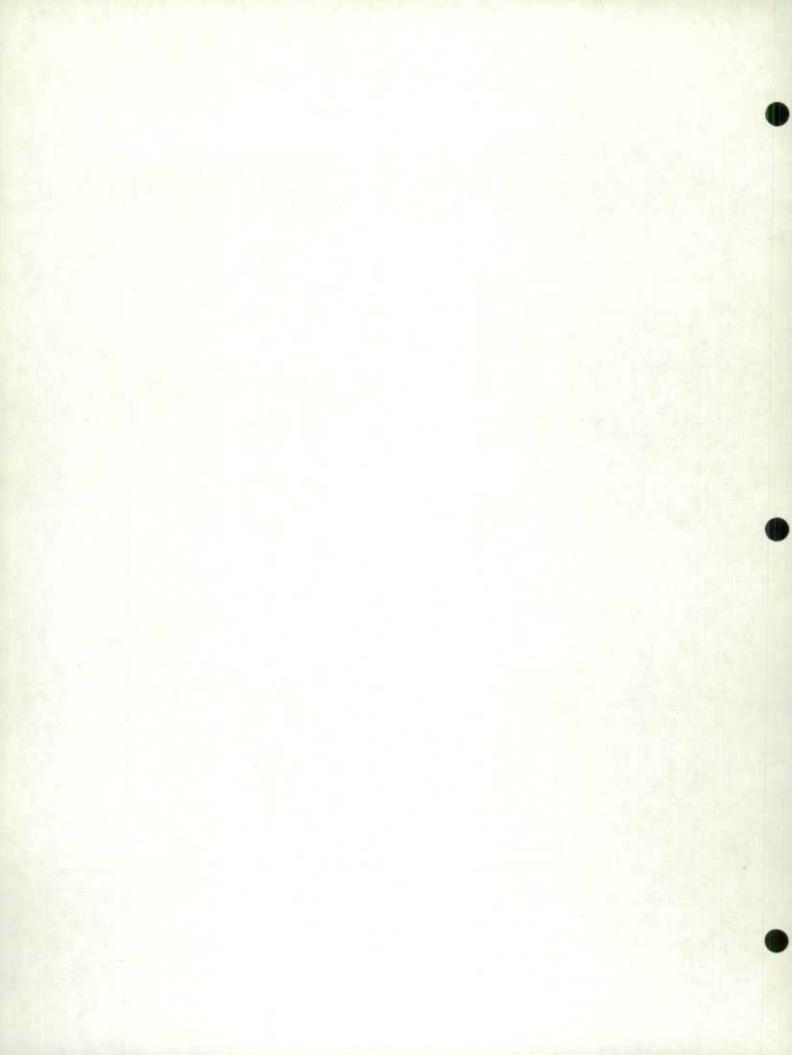
(b) By non-manufacturing activities

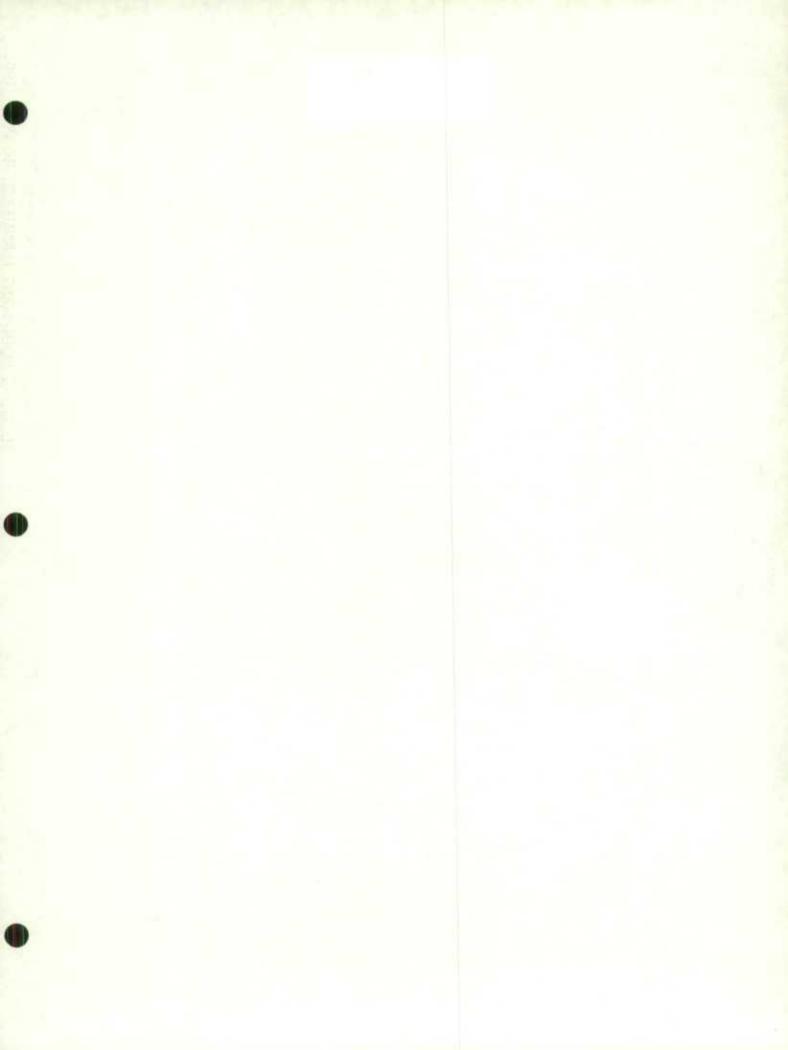
The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

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".





HEATING FOLIPMENT MANUFACTURERS 1964

STATISTICS CANADA LIBRARY EIBLIOTHEQUE STATISTICUE CANACA 1010698596