CATALOGUE No. 41-225



# HEATING EQUIPMENT MANUFACTURERS 1965

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#### HEATING EQUIPMENT MANUFACTURERS

#### 1965

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 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.

A review of the principal statistics of this industry indicates that during 1965 the value of shipments of products of own manufacture increased by 3 per cent, the cost of materials used increased by 3 per cent, the value of production increased by 2 per cent and value added increased by less than 1 per cent. The ratio of cost of materials used was 51 per cent of the value of production in 1965 whereas in 1964 the ratio was 50 per cent.

The value of heating equipment manufactured by the firms classified to this industry represented 71.4 per cent of their total production in 1965. Other items reported were air conditioning, cast iron soil pipe, aluminum extrusions, travel trailers, truck bodies, fans, machinery, pumps, lawn mowers and valves.

#### SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961 - 65

				Man	ufacturing	activity				Т	otal activ	rity	
Year and	Estab-		duction a		Cost of	Cost of	Value of shipments			y owners artners		loyees	
province	ments	Number	Man- hours paid	Wages		materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000		L	\$'000				\$'000		\$'0	000
1961		I											
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	3,651	7, 406	14, 298	766	40, 725	84,611	43,679	17	74	5,349	23, 399	46, 387
1963													
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	_	- 1	_	_	-	_	-	_	_	_	_	-	_
Prince Edward Island	_	-		-	_	-	_	_	_	-	_	_	date
Nova Scotia	2	х	Х	х	х	х	x	х	x	х	x	x	X
New Brunswick	1	x	х	х	х	x	x	X	- Tearr	_	x	х	x
Quebec	26	1, 319	2,894	5,737	200	15, 254	29, 947	15, 109	х	x	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	6 03	1, 217	53	3,887	6, 945	2,914	_	-	370	1,622	3,065
Saskatchewan	_	_	-	_	-	-	-	-	-	_		-	_
Alberta	5	х	x	х	х	х	x	х	х	х	х	Х	х
British Columbia	10	143	299	609	54	1,810	3, 247	1,523	Auto	-	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
1965													
Newfoundland			_	-	_	_	_	_	_	-	_	_	_
Prince Edward Island	_	_	_	_	ete.	_		_	_	_	_	_	-
Nova Scotia	2	x	х	х	x	X	x	x	_	_	x	х	х
New Brunswick	1	x	х	х	x	X	x	х	_	-	Х	х	х
Quebec	27	1, 202	2,589	4,869	187	16,587	31,869	14,897	Х	x	1,731	8, 183	15, 559
Ontario	55	1,984	4,197	9, 133	532	29,485	58, 237	29, 139	5	38	3, 274	16, 292	33,061
Manitoba	9	308	611	1, 296	57	4, 087	7, 454	3, 235	_	_	402	1,730	3, 254
Saskatchewan	_		_	_	_	_	_	_	_	-		_	_
Alberta	6	x	Х	х	Х	х	x	х	x	X	x	х	x
British Columbia	6	89	195	406	27	1,470	2,779	1, 295	_	-	138	685	1,353
Yukon and Northwest Territories	_	_	_	-	-	_	_	_	_	_	_		_
Totals	106	3, 712	7,844	16, 173	833	52, 961	100 110	50, 305	9	50	5, 711	27, 536	55,036

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

				Man	ufacturing	activity				T	otal activ	rity	
Size group	Estab- lish- ments		duction a ited 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		\$10	000
1964													
Jnder \$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 ' 99,999 100,000 ' 199,999 200,000 ' 499,999 500,000 ' 999,999	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
1,000,000 " 4,999,999 5,000,000 and over lead 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
1965													
Jnder \$10,000	} 8	7	14	25	3	54	146	90	5	15	11	37	10
50,000 " 99,999	17 16 17 17 27 4	67 136 226 457 1,735 1,084	134 279 462 928 3,724 2,303	272 545 924 1.754 7.418 5,234	17 29 58 97 375 252	459 944 2, 691 6, 482 29, 283 13, 048	1, 145 2, 227 5, 205 11, 943 51, 896 30, 851	674 1,268 2,797 5,233 22,269 17,975	2 - - 2 -	10 _ _ _ 25 _ _	97 182 338 658 2,705 1,720	399 773 1,613 2,798 12,751 9,166	72 1, 37 3, 26 5, 56 24, 16 19, 84
auxiliary units					• • •	***							3 8
Totals	106	3,712	7,844	16, 173	833	52, 961	103, 412	50, 305	9	50	5, 711	27, 536	55, 03

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

				Man	ufacturing	activity				T	otal acti	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of	Value of shipments of goods	Value		owners	Emp	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		\$'0	00
1964								1					
Inder \$10,000 to \$ 24,999	1 9	10	20	30	4	80	178	95	7	15	13	41	10:
10,000 ** 49,999	15 18 21 22 12	54 161 271 659 569	110 326 556 1,447 1,183	211 637 1,023 2,615 2,284	14 24 78 151 127	498 1.026 3,328 10,911 10,589	1,066 2,368 6,467 18,160 18,638	565 1, 346 3, 223 7, 281 8, 321	2 - 2 -	11 15 -	86 211 390 980 852	334 878 1,768 4,327 3,791	583 1,420 3,702 7,663 8,815
1,000,000 4,999,999  1,000,000 and over  Head offices, sales offices and auxiliary units	} 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	26, 996	52,75
1965													
Jnder \$10,000	5 3 17 14 16 26 16	2 5 65 102 201 670 896	4 10 130 214 418 1,378 1,853 3,837	6 19 258 443 840 2,552 3,764 8,291	1 2 16 23 58 150 190	26 28 518 761 2,714 12,016 17,186	61 86 1,165 1,850 5,030 20,088 28,601 46,532	33 56 631 1.076 2.302 7.974 11.031	5 -2 - - 2	15 	2 9 93 143 301 1,056 1,317	31 363 664 1,451 4,676 6,364	3; 68 68 1, 181 2, 71 8, 701 12, 263
5,000,000 and over	} ,,,	1,771	3, 831	8,291	392	19,711	46,532	27, 201		-	2,790	13, 981	29, 38
Totals	106	3, 712	7, 844	16, 173	833	52,961	103, 412	50, 305	9	50	5, 711	27, 536	55, 030

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

				Man	ufacturing	activity				T	otal activ	vity	
Size group	Estab- lish-		duction a sted work		Cost of	Cost of	Value of shipments		Working and pa		Emp	loyees	**-1
	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	000
1964													
Under \$10,000 \$ 10,000 to \$ 24,999	3 9	10	20	30	4	80	178	95	7	15	13	41	102
25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	15 17 20 23 13	54 148 264 656 592	110 300 538 1,435 1,239	211 585 975 2,612 2,388	14 21 73 147 138	498 987 2,946 10,727 11,193	1,066 2,278 5,818 17,976 19,560	565 1, 293 2, 927 7, 166 8, 785	2 - 2 -	11 - 15 -	86 192 365 967 909	334 800 1,577 4,303 4,085	583 1,317 3,118 7,780 9,385
1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	} 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	26, 996	52, 754
1965													
Under \$10,000 \$ 10,000 to \$ 24,999 \$ 50,000 " 49,999 \$ 50,000 " 99,999 \$ 100,000 " 199,999 \$ 200,000 " 499,999 \$ 1,000,000 " 49,999 \$ 5,000,000 and over \$ Huad offices, sales offices and anxillary units	5 3 15 15 16 25 16 25	5 51 102 200 644	100 102 214 414 1,322 1,702 4,076	6 19 201 440 824 2,443 3,353 8,888	1 2 14 22 57 135 178 423	26 28 463 767 2,622 11,279 14,617 23,160	61 86 1,014 1,868 4,899 18,919 24,933 51,633	33 56 538 1,090 2,245 7,510 10,194 28,639	5 2 - 2	15 10 - 25 -	2 9 72 144 288 995 1,181 3,020	6 31 286 653 1,336 4,326 5,583 15,315	33 69 537 1, 190 2, 318 8, 161 11, 054 31, 673
Totals	106		7.844	16, 173	833	52, 961	103, 412	50, 305	9	50	5, 711	27, 536	55, 036

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

				Mar	ufacturing	activity				1	Total acti	vity	
Size group	Estab- lish-		duction ated work		Cost of	Cost of	Value of shipments	Value		owners	Employees		Value
	ments	Numher	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		1000			\$'000				\$'000		\$10	000
1964													
Under 5 employed	12 32 35 17 6	11 192 652 733 483	22 389 1,389 1,556 1,017	39 776 2,566 2,881 2,210	7 44 140 178 97	222 2,013 10,844 11,681 9,067	471 4, 324 19, 274 20, 712 15, 719	241 2,366 8,497 9,331 6,647	8 1 2 -	19 7 15	20 278 958 1,119 746	75 1, 204 4, 465 4, 853 3, 676	247 2,535 9,048 10,085 7,146
500 employed and over	8	1,724	3,776	7,837	374	17,514	40,071	22,836	-	-	2,552	12,723	23,692
Totals	110	3, 795	8, 150	16,308	839	51,341	100, 571	49, 918	11	42	5,673	26, 996	52, 754
1965													
Under 5 employed	15 28 34 16 6	21 175 642 679 572 1,623	42 359 1, 347 1, 424 1, 180 3, 491	79 730 2,639 2,957 2,251 7,517	10 42 146 175 108 352	261 1,916 11,659 13,063 7,260 18,802	628 3,905 20,348 23,799 12,582 42,151	362 2, 164 8, 425 10, 281 4, 984 24, 090	6 1 2	19 7 25 — —	35 251 966 1,099 812 2,548	133 1,117 4,628 5,339 3,585 12,734	375 2, 262 9, 356 11, 303 5, 531 26, 209
Totals	106	3,712	7.844	16, 173	833	52, 961	103, 412	50, 305	9	50	5, 711	27,536	55, 036

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

				Man	ufacturing	activity				7	Total acti	vity	
Type of organization	Estab-		oduction ated worl		Cost of	Cost of	Value of shipments		Working and pa	owners artners	Empl	oyees	
	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
1964	No.		'000			\$'000				\$'000		\$'0	000
Individual ownerships	} 8	23	50	72	7	262	545	279	11	42	28	96	279
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													
Totals	110	3, 795	8,150	16,308	839	51, 341	100,571	49, 918	11	42	5,673	26, 996	52, 754
1965													
Individual ownerships	} 7	24	55	104	7	767	1,140	353	9	50	34	145	482
Incorporated companies	99	3, 688	7,790	16,069	825	52, 185	102,273	49,952			5,677	27, 391	54, 554
Co-operatives	_	-	_	-	_	_	_	_		* > >	_	_	ples
Head offices, sales offices and auxiliary units								4 + 4					
Totals	106	3,712	7.844	16, 173	833	52, 961	103, 412	50, 305	9	50	5,711	27, 536	55,036

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

	Manufact activi		Non-manufa activiti		Tota activi	
	1964	1965	1964	1965	1964	1965
	1_		\$'00	0		
Output	1	1			1	
. Shipments and other revenue	100,571	103, 412	13,123	16,744	113, 694	120, 156
Inventories-Goods of own manufacture:						
Add closing - Goods in process	4,097	4, 357			4,097	4, 357
Finished goods	7,733	7, 906	***		7,733	7,906
Deduct opening - Goods in process	3, 360	4,001			3, 360	4,001
Finished goods	6,943	7,575			6, 943	7, 575
. Net inventory change	1,527	687			1,527	687
. Gross output (1 + 2)	102,098	104,099	13, 123	16,744	115, 221	120, 843
Input						
Purchases of goods not of own manufacture			9,900	11,577	9, 900	11,577
Inventories - Goods not of own manufacture:						
Add opening			1,316	1,695	1,316	1,695
Deduct closing		* * *	1,656	1,900	1,656	1,900
. Cost of goods sold (not of own manufacture)		• • •	9, 560	11,372	9,560	11, 37
. Materials, supplies, etc.	51, 341	52,961	7 28	641	52,069	53,66
Fuel and electricity	839	833	4 4 6	* * *	839	83
Gross input (5 + 6 + 7)	52, 180	53,794	10, 288	12,013	62,468	<b>65,</b> 80'
Value added (3 - 8)	49,918	50, 305	2,835	4, 731	52, 754	55, 036

TABLE 8. Employment and Payroll, 1964 and 1965

					Employ	yees						Salari	es and wa	ges	
Year and province		Product related v	workers		Admi trat		Sa. a. distri	nd	То	tal	Producti related v		Admin- istra-	Sales and	191-4-1
province	Manufac	cturing	Ot	her	and c	711100	QID911	3444011					tive and	distri- bution	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	DULION	
*					numb	er							\$'000		
1964															
Newfoundland	-	_	60.01		-	-	_	_	_	-	_	_	-	_	_
Prince Edward Island	-	_	-		_	-	-	-	-	_	_	_	_	_	600
Nova Scotia	х	-	_	_	х	x	Х	-	X	Х	X	_	Х	Х	X
New Brunswick	х	-	-	_	х	_	_	0.00	Х	-	X	-	Х	_	Х
Quebec	1, 305	14	1	-	287	89	139	11	1,732	114	5,737	5	2,029	1,084	8,854
Ontario	1,847	70	6		557	241	298	58	2,708	369	8,228	32	4,437	2, 168	14,866
Manitoba	282	-	-	_	58	15	15		355	15	1,217	-	327	78	1,622
Saskatchewan	-			-	_	_	_	_	-	-	-	_	_	-	-
Alberta	х	_	_	_	х	X	х	_	Х	x	х	_	x	x	Х
British Columbia	133	10	_	_	33	12	16	_	182	22	609	_	246	82	938
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, 996
1965															
Newfoundland	-	-	-	_	-	-	_	_	_			_	-	-	-
Prince Edward Island	_	-		-	-	_	_	***	-	_	_	_	_	-	
Nova Scotia	х	-	-	_	х	x	_	-	х	x	х	-	х		х
New Brunswick	Х		-	_	X	_		_	х	_	х	_	Х	_	x
Quebec	1,187	15	9	-	282	90	144	4	1,622	109	4,869	40	2,051	1,224	8, 183
Ontario	1,906	78	9	_	666	277	283	55	2, 864	410	9, 133	46	4,954	2,158	16, 292
Manitoba	308	-	_		60	17	17	_	385	17	1, 296	-	345	- 89	1,730
Saskatchewan	_	-	_	_	_	_	-	_	-	_	_	_	_		_
Alberta	X	-	_	_	х	x	x		х	х	x	_	х	х	х
British Columbia	81	8	_	-	18	15	16	-	115	23	406	-	203	76	685
Yukon and Northwest Terri- tories	_	_		_	_	-	-	_	_	_	****	_	_	_	_
Totals	3,611	101	18	_	1,047	404	471	59	5, 147	564	16, 173	86	7,663	3,614	27,536

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

	196	14	196	5
Month	Male	Female	Male	Female
		numb	er	
Establishments reporting monthly detail (large establishments only):	1	1	1	
January	3,501	87	3, 351	88
February	3,529	86	3, 277	88
March	3, 557	88	3, 250	91
April	3, 484	72	3,279	90
May	3,466	85	3, 287	89
June	3,616	100	3, 451	97
July	3,627	92	3,401	87
August	3, 244	94	3, 535	100
September	3,341	91	3,573	98
October	3, 443	93	3,549	102
November	3,424	93	3,550	103
Document and the second	3, 382	97	3, 439	90
Argrages	3, 473	90	3, 413	96
Establishments reporting annual averages (small establishments only)	228	4	198	5
Average for all establishments	3, 701	94	3,611	101

TABLE 10. Inventories, 1965

		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
			book value	\$'000		
Opening:						
Newfoundland		_	-	-		-
Prince Edward Island	-	_		-	_	_
Nova Scotia	х	Х	Х	x	-	X
New Brunswick	х	X	У.	х	-	X
Quebec	2,729	1,070	1, 336	5, 136	428	5, 564
Ontario	4, 364	2,525	5,064	11,953	1,000	12,953
Manitoba	851	283	604	1,738	121	1,860
Saskatchewan	-	_	-	_	_	1000
Alberta	х	X	х	x	-	x
British Columbia	121	48	220	389	145	535
Yukon and Northwest Territories	_	_	-	_		-
Totals	8, 493	4, 001	7, 575	20, 069	1,695	21, 764
Closing:						
Newfoundland	-	_	_	et-		_
Prince Edward Island	_	_	_	_	_	
Nova Scotia	х	x	x	x	_	X
New Brunswick	x	x	x	x		x
Quebec	3,367	859	1,348	5, 575	400	5,975
Ontario	6, 505	3, 099	5,408	15,012	1, 100	16, 112
Manitoba	939	269	542	1,750	136	1,886
Saskatchewan	_	_			_	2,000
Alberta	x	x	x	x	700	X
British Columbia	145	57	224	426	264	7.00
Yukon and Northwest Territories	***	_	_	_	-	_
Totals	11, 427	4, 357	7,906	23, 690	1,900	25, 590

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

Passinka	196	54	1965	
Description	Quantity	Cost	Quantity	Cost
Part -		\$'000	11.0	\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:			The second	
(a) From Canadian mines ton	_	_	-	_
(b) Imported	417	6	430	6
Sub-bituminous coal (from Alberta mines only)	95	1	100	1
Anthracite coal	279	4	334	4
Lignite coal	_	_	_	_
Coke	_	_	_	_
Gasoline (including gasoline used in cars and trucks) Imp. g	al. 104,525	40	115, 103	47
Fuel oil including kerosene or coal oil	1, 202, 083	147	1,272,261	146
Wood	_	~_		_
Gas:				
(a) Liquefied petroleum gases	al. 243,603	42	238,082	39
(b) Other manufactured gas M cu.	ft	_		
(c) Natural gas	191, 440	176	180, 210	165
Other fuel		1		I
Electricity purchased kwh	. 31,977,706	369	29, 236, 136	373
Steam purchased		-		
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		53	4 4 4	50
3. All establishments:				
Total fuel and electricity used	* * *	839		833

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

		1964		1965	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:	į				
Iron:					
Pig iron, alt	ton	6,066	367	4,689	285
Castings:				" -	
Iron	4.4	2,891	1,038	3,377	1, 131
Steel	1.6	2,677	863	1,494	688
Steel, hot or cold-rolled:			100		
Bars	44	697	145	431	114
Plates	6.6	3, 191	546	2,784	489
Sheets:		,			
Plain	44	31,598	5, 237	26,610	5,188
Galvanized	44	3,821	841	5,018	1,086
Tin plate	**	532	109	529	115
Strip	4.4	2,804	454	3,230	539
Structural shapes (channels, angles, etc.)	44	707	152	464	103
Wire	**	74"	33	80	35
Pipe and fittings, iron and steel			502		534
Alloy steel: Stainless:					
			51		191
Billets, bars and rods	- 11		757		588
Other		• • •		• • •	50
Other alloy steel		* * *	59	* * * *	-
Ferro-alloys			115	* * *	64
Scrap iron and steel	ton	22, 246	842	24,769	1,114
Other iron and steel (except finished parts)			712		1,406
		- 111			
Non-ferrous metals (including scrap):					
Aluminum:		0.00 545	400		0.1
Castings	pound	659,745	433	506,807	315
Sheet	**	1, 498, 743	681	1,750,576	737
Other forms		2,046,297	956	1,479,417	1,338
Brass and bronze	"	813, 211	354	1,005,213	5.59
Copper:					
Sheet		122,359	79	126, 407	85
Wire	44	7,328	5	4,797	4
Other forms		1,672,182	1,099	1,542,875	1,44
Lead	11	877		-	
Babbitt metals and solders	**	11,785	10	13,677	1:
Other non-ferrous metals			151	* * *	16
Other materials and supplies:					
Paints and varnishes			580	4 4 4	58
Foundry coke (used in cupola, not for heat or power)	ton	6, 291	238	4,027	155
Foundry sands	4.4	9,514	93	7,920	7
Firebrick and cupola blocks			161		129
Plumbago and graphite	pound	306		45,000	
Lumber	M ft. b.m.	3, 169	304	1,991	28
Fireclay	ton	594	19	576	2
Core oil	Imp. gal.	17,079	25	8,682	1
All other materials and components used <sup>t</sup>		* * *	30,076		29,81
2. Containers and other packaging materials and supplies used			844		84
3. Operating, maintenance and repair supplies used (excluding fuel)			1,888	* * *	2,42
4. Actionst paid out to others for work done on materials owned by establishments			5 24		22
Totals			88 044		#0 ec
19415			51,341	4 4 9	52,96

No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$1,915,615 in 1964 and \$1,725,450 in 1965.

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

		1964		1965		
Description		Quantity	Value	Quantity	Value	
1. Products:			\$'000		\$'000	
Heating equipment:			1			
Cast iron sectional heating boilers	No	4.701	1 700	4 155		
	No.	4,731	1,709	4, 177	1,49	
Steel heating boilers	**	2,548	944	2,466	78	
Furnaces, warm air:			00.5			
Designed for coal or wood burning  Designed exclusively for gas burning	**	1,681	9,768	1,119	4:	
Designed exclusively for oil burning	r 4	73,157 66,750	13, 250	64, 222 54, 053	8, 8' 10, 63	
Floor and wall furnace:		307133	10, 200	04,003	10,00	
Gas	4.4	273	31	***	1.	
011	4.4	2,543	343	2,067	26	
Furnace parts			246		1, 03	
Burners for furnaces and boilers:						
Gas:						
Residential	No.	8,765	528	8,106	51	
Commercial and industrial	g 4	2,375	871	1,304	79	
Oil (power type):						
Residential	8 8	33,488	2,334	32,500	2, 2;	
Commercial and industrial Oil burners, range type	**	5,969	1,380	5,866	1,31	
Oil burner parts		6,569	216 627	5,728	8:	
Radiators for heating	Sq. ft. E.D.R.	15,520,951	9,438	19,091,337	9,9	
Stokers, mechanical:			.,	10,001,001		
Domestic or residential	No.	488	234	362	1	
Commercial and industrial	**	55	153	41		
Stoker parts			148		1	
Commercial cooking and food warming equipment:						
Electric			872	***	91	
Gas			885		1,02	
Unit heaters	No.	31,921	5.482	35,034	6,31	
Stoves and ranges (all types, all fuels)	10	20,254	1,210	18,646	1, 28	
Stove parts			18			
Industrial furnaces, kilns and ovens	No			• • •	1	
	No.	312	3,180	163	2,68	
Water tank heaters:  Domestic	44	70 501				
		20,701	719	12, 483	42	
Parts and attachments for industrial furnaces and ovens		***	1	0 0 0	30	
Steam traps for heating systems			1,701	• • •	2,65	
Incinerators			446		50	
Registers and grills for hot air heating systems			3,593		3,72	
Humidiflers (for warm air systems)			1.121		1,58	
Other heating equipment			9,842			
			3,042	• • •	8,04	
Miscellaneous products (air conditioning and refrigeration equipment, agri- cultural implements and parts, hardware, machinery, etc.)		- 1	15,803		0.01	
Amount received for repairs		• • •		* * *	9, 25	
		* * *	588		43	
All other products			11,889		24, 47	
Amount received in payment for work done on materials and products owned by others			269		20	
Less adjustment for value of sales taxes, excise duties and outward trans- portation charges which could not be deducted from individual commodity						
items described above.		* * *	(351)	• • •	(40	
Net adjustment for establishments receiving progress payments		* * *	450	***	29	
Total adjusted value of shipments and work done			100, 571		103, 41	

<sup>1</sup> Confidential data, included under "Other heating equipment".

#### TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries

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

#### A. Power-type Oil Burners, 1956-65

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
1959	105,097	7,729	1964	94, 240	6.704
1960	95, 464	6,696	1965	94,014	6,074

#### B. Furnace Blowers, 1956-65

Year	Number	Value	Year	Number	Value
		\$'000			\$'000
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
959	212,813	2,555	1964	191, 986	2,117
1960	151,834	1,922	1965	х	х

#### C. Mechanical Stokers, 1956-65

Year	Domestic or residential		Commercial or industrial		Total		Value
& C IAI	Number	Value	Number	Value	Number	Value	parts
		\$'000		\$'000		\$'000	\$'000
956	660	156	670	1,217	1,330	1,374	70
957	754	226	485	877	1,239	1,104	99
958	691	191	4 08	885	1,099	1,076	86
959	1,190	263	430	870	1,620	1,134	530
960	626	248	330	786	956	1,035	46
961	509	238	252	600	761	838	26
962	445	203	221	491	666	694	23
963	540	255	140	292	680	547	203
964	494	236	158	627	652	863	32
985	362	173	51	111	413	284	30

#### D. Unit Heaters, 1956-65

Year	Year Number Value Year		Number	Value	
		\$*000			\$ '000
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
1959	21,686	4,522	1964	34, 164	6,620
1960	25,843	5,829	1965	37,615	7, 396

#### E. Air Registers and Grills, 1956-65

Year	Value	Year	Value
	\$'000		\$'000
956	2,461	1961	2,698
957	2,838	1962	3,318
958	2,807	1963	4,262
959	2,971	1964	3,884
960	2,930	1965	4,004

See footnote at end of table.

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

Kind	1964		1965		
Killy	Sq. ft. E.D.R. <sup>2</sup>	Value	Sq. ft. E.D.R.2	Value	
		\$'000		\$'000	
Standing type, cast iron and pressed steel (excluding tube and fin types)	1,754,533	1,071	1,566,360	1,037	
Baseboard type, cast iron, pressed steel and other fabricated metal	12,721,833	7,370	16,469,929	9,135	
Concealed type, cast iron pressed steel and other fabricated metal		3,299		2,644	
Totals		11,740		12,816	

#### G. Warm Air Furnaces, 1956-65

Year	Designed for coal or wood burning		Designed exclusively for oil burning		Designed exclusively for gas burning		Total all types	
	Number	Value	Number	Value	Number	Value	Number	Value
		\$'000		\$'000		\$'000		\$'000
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
1965	1,425	540	87,309	17,717	81,836	11,943	170,570	30, 200

#### H. Heating and Power Boilers, 1964 and 1965

Type	1964		1965		
Туре	Number	Value	Number	Value	
		\$'000		\$'000	
Heating bollers:					
Cast iron sectional heating boilers:	_				
(a) Under 175,000 b.t.u.	4,198	1,159	5,897	1,547	
(b) 175,000 to 325,000 b.t.u.	1,509	622	1,686	739	
(c) Over 325,000 b.t.u.	1,464	1,408	1,709	1,966	
Steel heating boilers:			100		
(a) Under 112 sq. ft.	7,081	2, 256	7,104	2.317	
(b) 112-522 sq. ft.	516	962	573	1,308	
(c) 523-1,245 sq. ft.	420	797	602	1,194	
(d) 1,246 sq. ft, and over	92	472	55	421	
Power boilers:			- 5		
Marine type	157	1,335	164	1,488	
Water tube package boiler units		5,375	105	4.796	
Fire tube package boiler units	2, 154	9,186	2, 098	9,604	
Fire tube boilers	3	1	3	3	
Boilers, other, type not specified	• • •	25,998	* * *	32,614	
Totals	4 + +	49,570		57, 99	

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

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

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

Name	Location	Location				
Nova Scotia:						
	retain the street to the second					
Angel Mfg. & Supply Co. Ltd.  Enamel & Heating Products Ltd.						
Enamer & Heating Products Ltd.	Amherst					
Now Presentation						
New Brunswick:						
Bourque, Ruliard Ltd.	225 Main St., Shediac					
Quebec;						
Atlas Webster Industries Ltd.	2760 Laurentian Blvd., St-Laurent					
Chaput & Frères, J.B.C.	Boucherville					
Combustion & Power Equipment Ltd.	2655 Bates Road, Montreal					
Decarie Incinerator Ltd.	5656, boul Industriel, Montreal-Nord					
Freco Limitée	Charny					
General Marine Co. Ltd.	12392 Lachapelle Blvd., Montreal					
Howard Furnace Ltd. (Warden-King Div.)	5790 Côte-de-Liesse Rd., Montreal					
Hunt & Moscrop (Canada) Ltd.	Granby					
I.C. Burners Ltd.	2454, rue des Carrières, Montréal					
Industrial Supplies Inc.	Rougemont.					
Kres-Kno (Montreal) Ltd.	8255 Durocher St., Montreal					
Lemelin Products Inc.	Montmagny					
Les Industries Geyser Inc.	2260, rue des Carrlères, Montréal					
Locker G. R. Co. (The)						
Mark Hot Inc.						
Modern Kitchen Equipment Co.						
National-Shipley Ltd.						
Produits de chauffage J & L. Ltée						
Quehec Metal Pressing Inc.						
Reliable Industries Ltd.						
Rock Utilities (1963) Ltd.						
Serv-Ali Company Inc.						
Stoker Limited						
Terry Burners Inc.						
Turnbull & Sons Ltd.						
Vapor Heating (Canada) Ltd.						
Velan Engineering Ltd.						
Ontario:						
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.	Berryman Ave., St. Catharines					
Auto-Flo Corp. of Canada Inc.	4240 Ambassador Drive, Windsor					
B-L Furnaces Ltd.	15 Pelham Ave., Toronto					
Barlin Scott Mfg. Co. Ltd.	32 Lincoln St., Hamilton					
Blackwell Burner Co. of Canada Ltd.	2580 Cawthra Rd., Cooksville					
Canadian Infra-Red Co. Ltd.	26 Belvia Road, Toronto					
Clare Bros. Ltd.	223 King St., Preston					
Clawsey Short Mfg. Co. Ltd.	360 Eagle St. N., Preston					
Commercial Kitchen Equipment Mfg. Co.						
Douglas Metal Industries Ltd.						
Dunham-Bush (Canada) Limited						
Duo-Heat Ltd.						
Rulipse Fuel Eng., of Canada Ltd.						
Garland Commercial Ranges Ltd.						
Grimsby Stove and Furnace Limited						
Hallmac Limited						
Hamilton Incinerator & Firebrick Co.	21 Garfield Ave. S., Hamilton					

#### List of Establishments classified to this Industry, 1965 - Concluded

Name	Location	
Ontario - Concluded:		19431-19
Ideal Stoker Company Ltd.	500 Wellington St., Toronto	
Itiniant, M.	1124 Pierre Ave., Windsor	
Kemp Manufacturing Co. Ltd.	19 Petrolia St., Guelph	
Lennox Industries (Canada) Ltd.	400 Paxman Rd., Toronto	
	33 Sanford Ave. S., Hamilton	
Livingston Stoker Company Limited	30 Six Point Rd., Toronto	
Lloyd Register & Grilles Co. Ltd.	120 Dunkirk Rd., St. Catharines	
Niagara Heating Products Ltd.		
Oldheiser, Murray, Co.	3 Hoffman St., Kitchener	
Olsen W. H. Mfg. Co.	Tilbury	
Peabody Engineering Corp. of Canada Ltd.	3240 Wharton Way, Cooksville	
Penberthy Injectors Ltd.	St-Catharines	
Pepper's Automatic Stokers Limited	240 Adelaide St. W., Toronto	
Pettigrew Sav-oil Burners Ltd.	Otterville	
Ray Pre-Heater Ltd.	96 Herman St., Toronto	
Roberts-Gordon Appliance Corp. Ltd.	Grimsby	
Sana Equipment Limited	122 Rivalda Road, Weston	
Sarco Canada Ltd.	R.R. i, Agincourt	
Slant Fin Ltd.	3356 Eimbank Rd., Malton	
Smart, James Mfg. Co. Ltd.	Water St., Brockville	
Smith A. O. International S. A.	768 Erie St., Stratford	
Space Conditioning of Canada Ltd.	80 Ward St., Toronto	
Swindell Dressler Corp. of Canada	1000 Yonge St., Toronto	
Summers Manufacturing Ltd.	2450 Finch Ave. W., Weston	
Synchro Combustion Equip. Ltd.	Seaforth	
Tempo Tool & Mfg. Co. Ltd.	Cooksville	
Temprite Industries Ltd.	Hillside Dr. & Dawson Rd., Orangeville	
Tobac Curing System Limited	Simcoe	
	401 Horner Ave., Toronan	
Trane Company of Canada, Limited		
Wait-Skuttle Company	51 Davis Rd., Oakville	
Wayne Forge Ltd.	126 Judge St., Toronto	
Western Foundry Company Limited	Wingham	
Weston Metal Fabricators Ltd.	17 Belfield Rd., Rexdale	
York Machine Co. Ltd.	3417 Dundas St. W., Toronto	
Manitoba;		
Atom-Jet Humidifiers Ltd.	2110 Park Ave., Brandon	
Bullock's Limited	Sargent Ave. & Berry St., St. James	
Furnasman Metal Ltd.	635 Pembina Highway, Fort Garry	
Greensteel Industries Ltd.	975 Logan Ave., Winnipeg	
Hudson Heating & Ventilation Ltd.	1130 Sanford St., Winnipeg	
Price Acme of Canada Ltd.	639 Goispie St., Winnipeg	
Progressive Manufacturing Co.	1960 Main St., Old Kildonan	
Quest Metal Products	949 Erin St., Winnipeg	
Silver Line Manufacturing Co. Ltd.	1995 Logan Ave., Winnipeg	
Alberta:		
Air Heaters Canada Ltd.	7727-77th St., Edmonton	
Flame Master Ltd.	6130-97th St., South Edmonton	
Kirk's Heating Limited	Three Hilis	
Marvel Stroker Products	5735-97th St., Edmonton	
Shannon Bros.	1 Dunmore Rd., Medicine Hat	
Sure Flame Tank Heater	Granum	
British Columbia:		
Airco Products Ltd.	1331 Clark Dr., Vancouver	
Evans Perry Incinerators Ltd.	5669 Tyne St., Vancouver	
Industrial Process Heat Engineering Ltd.	I6 E. Hastings St., Vancouver	
Kumfort Furnace Co. Ltd.	5669 Tyne St., Vancouver	
	1331 West 6th Ave., Vancouver	
Rees Burners Ltd	1166 W. 14th St., North Vanctures	

#### CONCEPTS AND DEFINITIONS

#### Census of Manufactures

#### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the establishment (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

#### Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

Materials and supplies used Goods purchased for resale as such Fuel and power consumed Number of employees and salaries and wages Man-hours worked and paid Inventories Shipments or sales."

Each establishment is required to report on all the activities carried out within 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 did not operate during the survey year.

#### (b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

#### Value Added

#### (a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

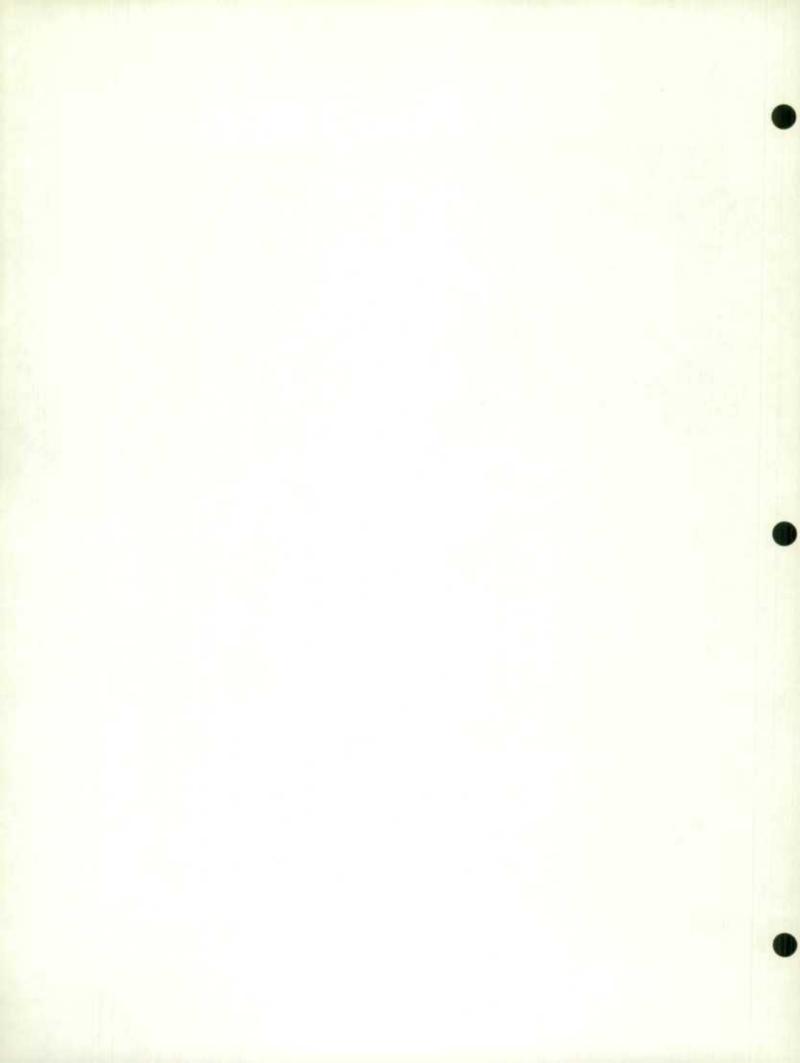
#### (b) By non-manufacturing activities

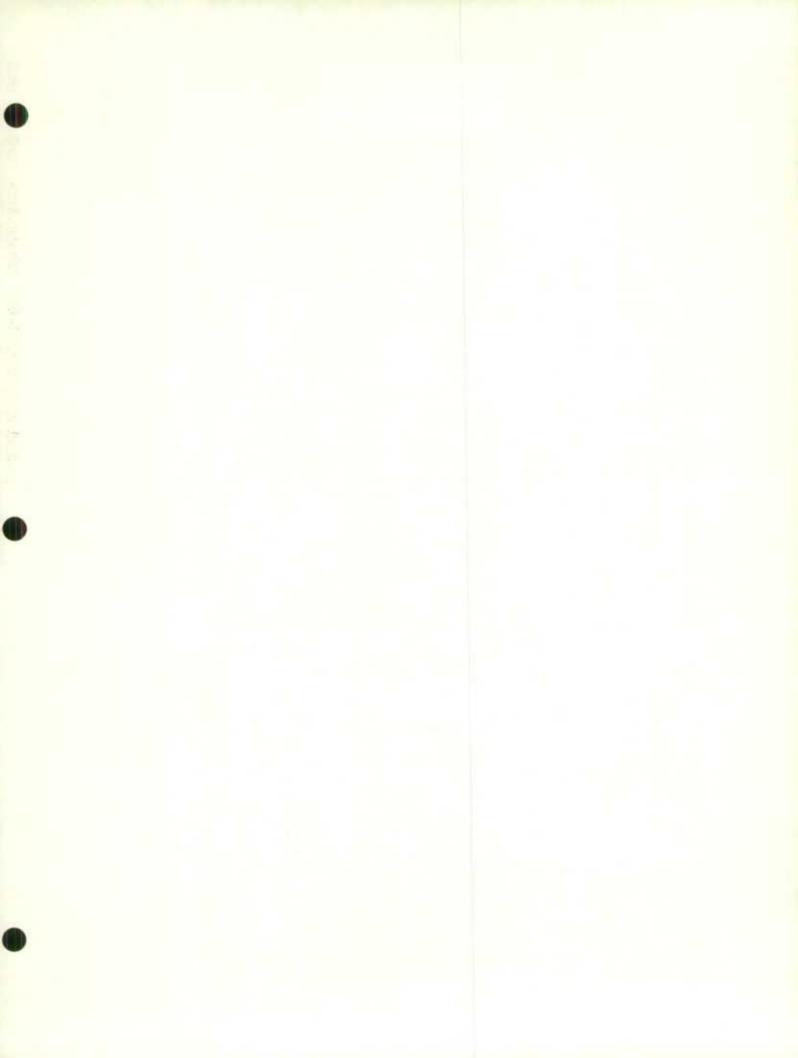
The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

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

#### (c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".





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