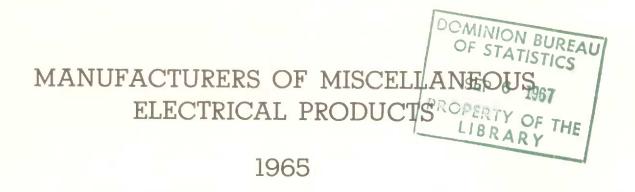
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ANNUAL





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PUBLICATIONS

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MANUFACTURERS OF MISCELLANEOUS ELECTRICAL PRODUCTS

1965

For statistical purposes the industry titled Manufacturers of Miscellaneous Electrical Products in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing electrical products not elsewhere classified, such as electric signalling apparatus; electric lighting fixtures; electric light bulbs and tubes (light sources) of all kinds such as incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps; wiring devices; panel-boards (distribution, lighting and residential types); low voltage switchboards; carbon or graphite electrodes; conduit and fittings. This industry also includes establishments primarily engaged in manufacturing electronic computers and data processors.

An analysis of the principal statistics for this industry indicates that the value of shipments and the value of production increased by 16 per cent in 1965. The value of materials used in production increased by 17 per cent and value added on products of own manufacture increased by 14.5 per cent. Materials used represented 48 per cent of the value of production in 1965.

The value of shipments of electrical products represented 96 per cent of the total value of shipments of products of own manufacture during 1965. Some of the other products shipped were radiators, X-ray equipment, fire fighting equipment, plastic products, bathroom fittings and sheet metal products.

SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-65

						activity				_	otal activ		
Year and	Estab-		duction a ated work		Cost of	Cost of	Value of shipments	Walua		owners	Emp	loyees	47.1
province	ments	Number	Man- hours pald	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
1961													-
Totals	133	6,885	14, 162	22,729	1,429	67, 796	143, 289	73, 754	18	90	9, 710	37, 977	77,056
1962													
Totals	125	7, 221	14,749	24, 171	1, 458	76,011	157, 254	81, 157	13	84	10, 095	39,697	85, 449
													00,110
1963													
Totals	128	7, 690	15, 935	27, 206	1,796	83, 373	170, 260	88,001	14	114	10, 571°	43, 677°	91,573
1964													
Newfoundiand	_	_	_	_	_	_	_	_	_	7	_	_	_
Prince Edward Island	_	_	_	_	_	_	_	nym.	_	_	_	_	_
Nova Scotia	_	_	_	_	_	_	_	_	_	_	_	-	_
New Brunswick		_	000	_		_		_					
Quebec	40	2,952	6, 299	9,801	791	31,800	68,202	37,136		x	3.941	15, 28 2	20 102
Ontario	91	4,966		19,465	1.026	58, 407					6, 938		39, 192
	7		269	415	40					151		31, 352	64, 983
Manitoba					40	1,157	2, 198	1,082	X	х	170	613	1,186
Saskatchewan		-	-	_	_	_	_	_	_	_			_
Alberta	1	119	246	402	27	1,876	2,830	1,013	_	_	154	620	1,137
British Columbia	6	J											
Yukon and Northwest Territories	_	_	_	_	_	_	_	_	-	_		_	_
Totals	145	8, 167	17,085	30,084	1,884	93, 239	192, 602	101,041	20	171	11, 203	47, 868	106, 497
1965													
Newfoundland		_	_	_	_	_	-	_	_	_	_	_	_
Prince Edward Island	_	_	-	_	_	_	_	nyn.	nun.	_	_		_
Nova Scotia	_	_	_	_	_	_	_		_	_	_	_	_
New Brunswick	_	_ :	_	_	_	_	myra.	_	_	_	_	_	_
Quebec	45	3,348	7.079	11,277	919	37,072	80,112	42,553	x	ж	4. 374	17, 124	44,558
Ontario	92	5,468	11,182	21,958	1,131	67, 170	136,681	70,430	15	117	7,576	34.982	74,116
Manitoba	8	187	413	598	59	1,708	3,199	1,597	x	x	236	844	1,673
Saskatchewan	_	April 1		_	_	_		_	_	April 1		-	1,013
Alberta	1	1											
British Columbia	8	156	321	572	35	3,104	4,279	1,227	-	-	198	843	1,495
Yukon and Northwest Territories	_	_	_	_	April		_	_	_	_			_
Totals	154	9, 159	18, 995	34, 404	2,144	109,054	224, 271	115 gne	20	194	12, 384	53, 792	121.841

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

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab- lish- ments		duction a sted work		Cost of fuel and	Cost of materials	Value of shipments of goods	Value	Working and pa	owners	Empl	oyees	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													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 199,999 200,000 " 499,999 200,000 " 499,999 1,000,000 " 499,999 1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	3 6 4 12 22 32 20 38 8	- 6 10 46 190 552 831 3,688 2,844	12 20 92 385 1,113 1,720 7,802 5,940	19 35 150 602 1,844 2,601 13,807 11,024	2 2 10 39 133 118 925 657	8 56 68 418 1,661 5,573 7,296 51,608 26,550	17 116 158 821 3,282 11,001 14,419 95,054 67,734	9 64 88 401 1,632 5,519 7,130 44,653 41,545	3 3 1 2 7 4	16 77 77 76 62	8 177 64 284 737 1,050 5,167 3,433	25 73 242 1,092 2,871 3,908 22,532 14,457	64 114 399 1,673 5,859 7,668 47,350 43,108
Totals	145	8, 167	17, 085	30, 084	1.884	93, 239	192,602	101 041	20				255
1965	140	0,101	11,000	30,001	1,004	33, 633	152,002	101,041	20	171	11, 203	47,868	106, 497
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 " 499,999 5,000,000 " 4,999,999 Head offices, sales offices and auxiliary units	} 6 8 10 23 35 24 37 11	3 17 30 192 606 887 3,643 3,781	6 34 61 391 1,235 1,840 7,472 7,957	8 59 102 705 1,928 2,893 13,182 15,528	1 3 10 44 135 132 948 870	33 149 423 1,765 6,271 8,503 53,638 38,272	73 289 730 3,428 11,557 17,282 96,682 94,230	38 158 330 1,704 5,341 8,990 43,113 56,132	4 2 4 - 6 4	10 10 18 - 34 62 -	5 24 43 276 796 1,150 4,929 4.693	17 95 158 1,160 2,977 4,466 21,078 21,007	38 158 330 1.787 5,750 9,589 46,042 57,764
Totals	154	9, 159	18, 995	34, 404	2.144	109,054	224, 271		20	134	12,384	53, 792	121, 841

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

			Man	ufacturing	activity				7	otal acti	vlty	
Estab- lish- ments				Cost of	Cost of	Value of shipments	Value			Employees		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	100
6 10 10 23 20 35 15 23 3	2 17 38 224 293 1,152 966 4,019 1,456	4 34 77 451 574 2, 403 2, 014 8, 454 3, 075	7 55 127 696 946 3,770 3,186 15,965 5,332	1 77 8 47 55 291 130 941 405	62 211 523 2.172 3.981 15.281 12.551 46.427 12.030	97 363 895 3,810 6,721 26,272 22,401 95,961 36,083	33 155 373 1,672 2,770 11,020 9,931 50,506 24,581	4 5 1 2 8 -	9 25 - 11 6 121 - -	4 24 57 318 399 1,525 1,298 5,442 1,693	12 85 231 1,144 1,566 5,919 5,251 24,352 6,639	33 181 369 1,708 2,890 11,958 10,166 52,806 26,131
										443	2,668	255
145	8,167	17,085	30,084	1,884	93,239	192,602	101,041	20	171	11, 203	47, 868	106, 497
4 10 16 23 22 34 16 25 4	18 62 215 325 1.078 1,069 4,588 1,804	36 127 426 675 2,266 2,161 9,607 3,698	58 247 719 1,095 3,498 3,591 18,443 6,754	5 19 45 78 217 173 1,151 457	12 248 1,135 2,285 4,706 15,049 16,708 52,815 16,096	28 401 1,662 4,180 7,643 25,832 27,263 107,858 49,405	15 168 589 1,836 2,915 10,650 10,678 55,796 33,159	44 42 2 - 2 8	10 17 11 - 6 90	25 96 299 439 1,407 1,441 6,090 2,119	8,534	15 168 589 1,959 2,972 11,602 11,226 58,461 34,458
	No. 6 10 10 23 20 355 15 23 3 145 4 10 166 23 32 22 34 4 166 25 5	No. 6 2 10 17 10 38 32 24 20 293 35 1,152 35 1,152 35 1,456 23 4,019 3 1,456 145 8,167 4 10 16 62 23 215 22 34 1,069 25 4,588 4 1,804	No. Manhours paid	Establishments Number Manhours paid	Establishments Production and related workers Cost of fuel and electricity	Section Part Part	Establishments Production and related workers	Establishments Production and related workers Cost of fuel and electricity Store Stor	Establishments Number Manhours paid Wages Wag	Production and related workers Production and related workers	Production and related workers	Production and related workers Cost of fuel and paid Number Number

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

				Man	ufacturing	activity				T	otal acti	vity	
Size group	Estab-		oduction a ated work		Cost of	Cost of	Value of shipments		Working and pa	owners	Emp	oyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Numher	With- drawals	Number	Salaries and wages	V alue added
	No.		'000			\$'000				\$'000		\$*0	00
1964													
Under \$10,000	66 9 11 23 19 33 18 23 3	2 15 40 224 270 1,004 1,137 4,019 1,456	4 30 80 451 528 2,098 2,365 8,454 3,075	7 48 135 696 859 3,299 3,743 15,965 5,332	1 7 8 47 500 250 176 941 405	62 194 540 2,172 3,801 14,081 13,931 46,427 12,030	97 334 924 3,810 6,365 24,101 24,928 95,961 36,083	33 143 385 1.672 2.584 10.046 11.092 50.506 24.581	1 2 8	9 25 11 6 121	4 18 63 318 363 1,333 1,526 5,442 1,693 443	12 58 258 1,144 1,396 5,206 6,134 24,352 6,639	33 143 408 1,708 2,568 10,494 11,953 52,806 26,131
Totals	140	8, 167	17, 085	30, 084	1,884	93, 239	192,602	101, 041	20	171	11, 203	47,868	106, 49
1965													
Inder \$10,000	10 16 18 27 33 15 27 4	18 62 153 387 1,080 820 4,835 1,804	36 127 309 791 2,271 1,643 10,120 3,698	58 247 508 1,307 3,489 2,754 19,288 6,754	5 19 33 90 212 142 1,186 457	12 248 1.135 1.473 5.518 15.956 10.935 57.681 16.096	28 401 1,662 2,943 8,880 26,635 19,915 114,402 49,405	15 168 589 1,396 3,356 10,498 9,070 57,555 33,159	4 4 2 2 8 -	10 17 11 - 6 90 -	25 96 217 521 1,406 1,150 6,382 2,119	4,690 28,831 8,534	15 163 589 1,42 3,51 10,91 9,65 60,72 34,45
auxiliary units		* * *			4 0 0	• • •	***	4 4 4			468	2,834	38
Totals	154	9, 159	18,995	34, 404	2,144	109, 054	224, 271	115,806	20	134	12,384	53, 792	121, 84

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

				Mar	ufacturing	activity				7	otal acti	vity	
Size group	Estab- lish- ments		oduction a ated work		Cost of	Cost of	Value of shipments	11.3		owners artners	Employees		
	ments	Number	Man- hours paid	Wages	eiec- 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)00
1964													
Under 5 employed	19 29 47 19 13 15	24 183 957 874 1,316 3,238 1,575	50 372 1,935 1,802 2,805 6,908 3,213	87 655 3,056 2,929 4,815 12,359 6,182	11 41 252 307 231 704 339	688 2,869 16,073 9,753 19,366 33,043 11,447	1,083 5,049 26,437 20,163 32,737 74,579 32,553	401 2,228 10,390 10,690 13,658 42,505 21,169	9 1 6 4	34 11 65 62 —	35 290 1,309 1,241 1,767 4,286 1,832	162 1,173 5,143 4,840 7,784 18,515 7,582	398 2, 290 11, 019 11, 104 15, 116 44, 474 21, 841
auxiliary units	* * *		4 6 6					* * *	0.0.0		443	2,668	255
Totals	145	8, 167	17, 085	30, 084	1,884	93, 239	192,602	101,041	20	171	11,203	47,868	106, 497
1965													
Under 5 employed	20 31 52 22 10 15 4	28 192 1,089 1,177 1,194 3,339 2,140	56 396 2,242 2,495 2,444 6,978 4,384	96 728 3,548 4,147 4.185 13,308 8,394	10 53 255 453 174 769 429	783 4,025 17,163 17,135 15,795 36,031 18,122	1. 214 6. 249 28, 976 33, 115 27, 348 81, 518 45, 852	460 2,170 12,026 15,827 11,664 46,590 27,069	10 -4 6 	38 14 82 -	44 289 1.481 1,662 1,507 4,410 2,523	172 1,244 5,848 7,040 6,262 19,711 10,681	458 2, 239 12, 864 16, 969 12, 981 47, 878 28, 067
Totals	154	9, 159	18, 995	34, 404	2,144	109, 054	224, 271		20	134	12,384	53.792	121,841

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

				Man	ufacturing	activity					Fotal acti	vity	
Type of organization	Estab- lish-		oduction ated work		Cost of	Cost of	Value of shipments	**-1		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
	No.		'000			\$'000				\$'000		\$'0	000
1964					1 - 1								
Individual ownerships	8	9	18	24	6	236	352	123	8	37	10	29	123
Partnerships	6	106	216	364	20	1,040	2, 201	1,207	12	134	124	469	1,202
Incorporated companies	131	8,052	16, 851	29,695	1,859	91,963	190,049	99,710			10,626	44,702	104,917
Co-operatives	_	_	_	-	_	_	_	_			_	_	_
Head offices, sales offices and auxiliary units				* * *		> 0 0			0 0 0		443	2, 668	255
Totals	145	8, 167	17,085	30, 084	1,884	93,239	192,602	101,041	50	171	11,203	47,868	106, 497
1965													
Individual ownerships	8	8	16	25	3	147	257	112	8	31	9	32	112
Partnerships	5	124	249	358	7	990	2, 112	1, 151	12	104	145	489	1,148
Incorporated companies	1												
Co-operatives	141	9,027	18,730	34,021	2, 135	107,917	221, 903	114,542			11,762	50, 438	120, 198
Head offices, sales offices and auxiliary units											468	2, 834	384
Totals	154	9.159	18.995	34, 404	2, 144	109.054	224, 271	115.806	20	134	12,384	53, 792	121.841

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

	Manufacti activit		Non-manufa activiti		Tota activit	
	1964	1965	1964	1965	1964	1965
			\$1000	0		
Output			1			
1. Shipments and other revenue	192,602	224, 271	24, 470	30, 130	217,073	254, 401
Inventories - Goods of own manufacture:						
Add closing - Goods in process	8, 521	10,152	0 0 0		8, 521	10, 152
Finished goods	17,664	18,864		* * *	17,664	18,864
Deduct opening - Goods in process	7, 223	8,621			7, 223	8, 621
Finished goods	15,400	17,662		4 0 4	15, 400	17,662
2. Net inventory change	3,562	2,733		9 0 0	3, 562	2,733
3. Gross output (1+2)	196, 164	227,004	24, 470	30,130	220,635	257, 134
Input			10.500	00.000	10 505	00 000
Purchases of goods not of own manufacture	• • •	***	18,533	23, 269	18,533	23, 269
Inventories - Goods not of own manufacture:						
Add opening	• • •	* * *	5, 553	6,326	5, 553	6,326
Deduct closing	* * *	• • •	6, 183	6,772	6, 183	6,772
c. Cost of goods sold (not of own manufacture)			17, 903	22,823	17,903	22,823
3. Materials, supplies, etc.	93, 239	109,054	1,110	1,271	94,349	110,32
7. Fuel and electricity	1.884	2,144			1, 884	2,14
3. Gross input (5 + 6 + 7)	95.123	111,198	19,013	24,094	114, 136	135, 29
Value added (3 - 8)	101,041	115,806	5,457	6,036	106, 497	121,841

TABLE 8. Employment and Payroll, 1964 and 1965

					Emplo	yees						Salari	es and wa	ages	
Year and province		Product related			trai	inis-	a	les nd	To	otal	Product:		Admin- istra-	Sales	
province	Manufa	cturing	O ₁	ther	and	office	distri	bution			TC/ACCA V	TOIRCIS	tive	and distri-	Total
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other	office	bution	
1964		1 1			num	per		1	1				\$'000	1	
Newfoundland	_	_	_	_	_		_	_					_		
Prince Edward Island	_	_	_					_				_		_	_
Nova Scotia	_	_	_					_				_	_	_	
New Brunswick	_				_	_		_	_	_	_				_
Quebec	1,472	1,480	4	_	486	281	175	43	2, 137	1.804	9,801	19		1 250	
Ontario	2,666	2.300	10		945	477	452	88	4, 073	2,865	19,465	28	4,106	1,356	15, 28
Manitoba	97	33	_	_	19	6	12	3	128	42	415		8,733	3,126	31,35
Saskatchewan	_	-	_	_	_	_	- 12		120	92	413	_	103	- 35	613
Alberta	1													_	_
British Columbia	80	39	_	_	16	10	9	-	105	49	402	_	141	77	620
Yukon and Northwest Terri-	,														
tories	_	_	_	_	_	_	-	_	_		_	_	_	_	
Totals	4, 315	2 982	1.4		1 400	224	040	104	0.440	4 200					
	4,313	3,852	14	_	1,466	774	648	134	6,443	4,760	30, 084	47	13,144	4,593	47, 868
1965															
Newfoundland	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Prince Edward Island	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Nova Scotia	_	_	_		_	_	_	_	_	_		_	_		
New Brunswick	_	_	_	_		_	_	_	_	_	_	_		_	
Quebec	1,745	1,603	_	_	488	309	181	48	2,414	1.960	11,277	_	4,447	1,400	17, 124
Ontario	2,908	2,560	4	5	992	499	506	102	4,410	3, 166	21, 958	27	9,309	3,688	34, 982
Manitoba	142	45	_	_	19	9	17	4	178	58	598	_	175	72	844
Saskatchewan	_	_	_	_	_	_		-	-	_	_			-	-
Alberta	1														
British Columbia	102	54	-	_	21	11	9	1	132	66	572	_	188	83	843
Yukon and Northwest Terri-															
tories	_	-	-	_	_	-		-	_	_	_	_	_	_	_
Totals	4, 897	4.262	4	5	1,520	828	713	155	7, 134	5,250	34.404	27	14.119	5,242	53.792

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

Month	196	4	196	5
MUILLI	Male	Female	Male	Female
		numbe	21	
Establishments reporting monthly detail (large establishments only):	1	1	1	
January	3,879	3,417	4,382	3.87
February	3,852	3,470	4,447	3.96
March	3,870	3,549	4,523	3, 98
April	3,768	3, 496	4,547	4, 03
May	3,829	3,612	4,554	4.08
June	4, 208	3,872	4,693	4, 17
July	4, 164	3,806	4,619	3.99
August	4,310	3,890	4,879	4.246
September	4, 186	3,909	4.858	4. 33
October	4, 259	3,854	4, 901	4.37
November	4,202	3,845	4, 860	4.309
December	4, 189	3,684	4,796	4, 206
Averages	4,058	3,714	4,673	4, 13
statlishments reporting annual averages (small establishments only)	257	138	224	127
iverage for all establishments	4, 315	3,852	4,897	4, 26

TABLE 10. Inventories, 1 1965

		Manufa	acturing		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				_	_	30 = -
New Brunswick				_	_	_
Quebec	.,	2,051	9,321	17,840	2,773	20,61
Ontario		6,336	12,805	28,493	3,142	31,63
Manitoba		145	40	563	400	96:
Saskatchewan		_	_	_	_	-
Alberta	243	89	130	462	12	47
British Columbia			.00	102	1.0	1.
Yukon and Northwest Territories	-	_	-	_	_	_
Totals	16, 441	8,621	22,296	47,357	6, 326	53, 68
Closing:						
Newfoundland		-	_	_		
Prince Edward Island		_		_		
Nova Scotia		_	_			
New Brunswick		_	_			
Quebec		2,623	9, 181	19.024	2,856	21.88
Ontario		7,235	14,810	33,636	3,470	37.10
Manitoba		237	112	856	415	1.27
Saskatchewan		_	_	500	-	1,001
Alberta						
British Columbia	375	56	250	682	31	71
Yukon and Northwest Territories	12					
					_	
Totals	19,692	10, 152	24, 353	54, 197	6, 772	60,96

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

	1 (13)	1964		1965	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	3,071	35	1,923	23
(b) 1mported	e d	3,676	44	3,844	44
Sub-bituminous coal (from Alberta mines only)		73	1	_	_
Anthracite coal	2.0		-	-	_
Lignite coal		65	1	95	1
Coke	44	_	_		_
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	211,828	86	275,670	113
Fuel oil including kerosene or coal oil	9.0	2,684,195	288	3,094,428	344
Wood	cord	_		_	_
Gas:					
(a) Liquefied petroleum gases	Imp. gal.	173, 134	66	268, 655	72
(b) Other manufactured gas	M cu. ft.	_	-	_	_
(c) Natural gas		339,724	309	392, 231	356
Other fuel	44-1-1		-		1
Electricity purchased	kwh.	83,378,541	920	110,615,177	1,074
Steam purchased	.,	P • •	29		32
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity			106		84
3. Ail establishments:				100	
Total fuel and electricity used			1,884		2,144

¹ The difference between figures in this table and those in Table 7, arises from firms reporting output of products on the basis of production rather than shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 7. See also "Concepts and Definitions" for explanation or other variances.

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

Decompleton	1964		1965		
Description	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
Materials used:					
Aluminum:					
Castings	2,976,173	1,916	3,881,214	2, 32	
Wire rods	133,536	73	144, 234	9	
Sheets and strip	1,679,255	933	1,878,530	1,04	
Other		1,673		1,9;	
Brass and bronze:					
Castings	174,694	145	182,445	14	
Wire rods	279,173	114	304,610	1	
Sheets and strip	1,327,181	802	1,388,438	99	
Other		880		9	
Copper:					
Wire rods	830,213	499	1,084,910	6'	
Sheets and strip	614,656	360	720,736	4	
Tubing and pipe	349,214	249	493, 337	3	
Wire, enamelled	519,447	338	904,001	6	
Wire, other insulated	***	2,593		2,9	
Other		1,633		2, 1:	
Glass tubing and cane		1,055	* * *	1, 20	
Insulating varnishes, japans, enamels and lacquers		63	4 . *		
Insulators, porcelain and glass, 600 volts and over		106		1	
Iron and steel (except alloy):		100	* * *	1	
Castings (rough and semi-finished received from foundry):					
Iron, gray and malleableton	886	376	1.214	58	
Steel "	1,270	249	3, 498	1, 18	
Pig iron	1,390	86	2, 146	1, 10	
Steel bars and rods	2,595	516	3,166	56	
Steel sheets and strip;			.,		
Plain	32,673	5,399	42, 415	7,0	
Galvanized	5, 209	841	4,579	80	
Steel wire	235	73	231	,	
Other (except alloy)		3,555	* * *	4,0	
Alloy steel, in all forms:					
Stainless	* * *	66		8	
Silicon sheets and stripston	803	415	1,347	71	
Other alloy, including tool steel, all forms		43			
Lead	67,030	50	78,030		
Paints, stains, lacquers, etc. (for finishing only)		929		1,1	
Resins, synthetic (moulding powders, sheets, etc.):					
Vinyl type (PVC, etc.)		273		33	
Polyethylene type (polythene, etc.)		189	* * *	30	
Other (bakelite, etc.)		3, 101		3,69	
All other materials and components used1		55,741	d 0 0	62,4	
Containers and other packaging materials and supplies used	• • •	3,768		4,6	
Operating, maintenance and repair supplies used (excluding fuel)		3,058	***	3, 69	
Amount paid out to others for work done on materials owned by establishments		1,078		4 13	
1.32 and to other to ment on manufact by computabilities		1,010	+ n H	1,3	
Totals		93, 239		109,0	

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$3,507,708 in 1964 and \$3,521,565 in 1965.

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

Description	Value		
Description	1964	1965	
	\$'0	00	
Products:			
Carbon brushes for generators and motors	1,021	1,098	
Conduit and accessories — See Table 14A	17, 222	22, 349	
Cut-outs and fuses	1,433	1,849	
Industrial control equipment	2,046	1,389	
Lamps (light sources - bulbs and tubes) See Table 14B, C, D	48,310	56,314	
Lighting equipment — See Table 14E	56,637	67,562	
Switchgear and protective equipment	19,961	24,012	
Wiring devices - See Table 14F	20,126	18,733	
All other products	27, 261	33, 215	
Amount received in payment for work done on materials and products owned by others	375	309	
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(1,789)	(2,559)	
Net adjustment for establishments receiving progress payments	_	_	
Total adjusted value of shipments and work done	192, 602	224, 271	

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. Conduit and Accessories for Electrical Wiring, 1964 and 1965

	1964		1965	
	Quantity	Value	Quantity	Value
	'000 lbs.	\$'000	'000 lbs.	\$'000
Rigid conduit;				
Steel and non-ferrous	51,421	8,791	59, 267	9,035
Electrical metallic tubing, steel and non-ferrous	17,709	3, 217	19,353	3,063
Bends, couplings, elbows, etc.		x		х
Outlet and switch boxes		3,678		4,260
Conduit fittings		2, 169		2,388
Accessories for rigid conduit etc.		4,059		5,627

B. Incandescent Electric Lamps (Bulbs), 1956-65

		Standard type						Miniature ¹	
Year	150 watts and below		Above 150 watts		Totals				
	Number	Value	Number	Value	Number	Value	Number	Value	
	000's	\$'000	000's	\$'000	000's	\$'000	000's	\$'000	
1956					77,555	11,806	43,055	4, 178	
1957	1	2	2	3	84, 293	13,065	38,997	4,815	
1958					79,925	12,618	36,668	5,407	
1959					84,980	14,656	40,875	5,449	
1960	78,182	13, 247	6,636	2,644	84,818	15,891	36,978	5,769	
1961	78,597	12,582	7,153	3,011	85,750	15,593	47, 415	6,716	
1962	81,188	14, 433	7,895	3,401	89,083	17,835	41,362	6,210	
1963	88,836	15,554	7,850	3, 273	96,686	18,827	56,015	8,620	
1964	93,035	15, 262	8, 175	3,381	101, 210	18,643	65, 147	8,936	
1965	94,438	15,893	8,905	3,826	103, 343	19.719	75, 314	12, 218	

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded C. Fluorescent Electric Lamps (Bulbs), 1956-65

Year	Standa	ırd	Sliml	ine	Totals		
1 cai	Number	Value	Number	Value	Number	Value	
	000's	\$*000	000's	\$'000	000's	\$'000	
1956 1957 1958 1959 1960 1961 1962 1963 1963	7,436 8,420 9,989 10,902 12,501 14,582	5,791 6,019 7,654 8,043 8,946	1,758 1,698 1,795 1,659 2,248 2,068	3, 083 3, 388 3, 040 2, 713 3, 701 3, 430	5,799 6,909 7,098 7,482 9,194 10,118 11,784 12,561 14,749 16,650	4, 377 5, 567 5, 684 6, 686 8, 875 9, 407 10, 694 10, 756 12, 647 14, 308	

D. Photographic Lamps (Bulbs), 1964 and 1965

	1964		1965	
	Quantity	Value	Quantity	Value
	000's	\$'000	000's	\$'000
Photoflash — Miniature Other	60,656 14,593	4,320 1,132	69,465 14,131	5, 13; 1, 14;
Total photoflash	75, 249	5,452	83, 596	6, 27
Other photographic - Projection Other	121 157	589 129	408 233	1,01° 22
Total photographic lamp bulbs	75, 527	6, 170	84, 237	7,51

E. Electric Lighting Fixtures, 1964 and 1965

	Va	lue
	1964	1965
	\$1	000
locandescent Fluorescent	9.677 1.704	10,818 2,364
Commercial and industrial: Incandescent Fluorescent	6,521 26,355	4, 909 35, 848
Floodlights: Heavy duty incandescent Light duty incandescent Open type	653 1,803 160	753 2,021 187
Par lamp holders	359	360
Street lighting: Incandescent Fluorescent Mercury	563 1,091 4,832	638 742 5,333
Street light brackets	826	853
Street light standards	3, 128	3,566
Street light control equipment	504	771
Other lighting equipment ³	3,704	3,702
Totals	61,880	72, 865

See footnote at end of table.

F. Factory Shipments of Wiring Devices, 1960 to 1965

Year	Value
	\$'000
960 961 962 963 964	12,003 14,773 16,492 18,164 21,532 25,251

All types, including Christmas tree, flashlight, automobile, etc.
 Not available separately - included in totals.
 Does not include floor lamps or table lamps.

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 includes

Name Location Amesse, René Enr. Canadian General Electric Co. Ltd. Canadian Lightning Ltd., Les Deioniseurs Canadiens Limited Canadian Westinghouse Co. Ltd. Canadian Westinghouse Co. Ltd. Cincinati Systems and Signals Ltd. Columbia Electric Ltd. Columbia International Ltd. Diversity Metal Processing Electrolier Corporation Flexi-Toom Mfg. Co. Ltd. Girard, Roger Inc. Glacite Inc. Great Lakes Carbon Corporation (Canada) Ltd. Hi-Scale Products (Canada) Ltd. Hi-Scale Products (Canada) Ltd. Liviton Mfg. of Canada Ltd. Lumiant Ltd. Metal & Electrical Prod. Corp. Ltd. Mid-Day Fluorescent Fixtures Inc. Modulite Inc. (Div. of Lightolier Canada Ltd.) Murray Mfg. Co. (Canada) Inc. National Electric Coil Peerless Electric Ltd. Penerless Electric Ltd. Prestige Lighting Mfg. Ltd. Québec: 103, rue Elmslie, Ville LaSalle 280 Faillon St. W., Montréal Lac Dubé, St-Ursule Granby 3350 Royale St., Trois-Rivières 2310 Holt St., Montreal 35 2310 Holt St., Montreal 35 St. Isidore Place d'Armes, Montréal, 1 8500 9th ave. Ville St-Michel 8501 Jarry St. E., Ville d'Anjou 6155 Lafontaine St., Montréal 10123, Place Hotel de Ville, Montréal-Nord 8715, 8ième Ave., Ville St-Michel 10123. Place Hotel de Ville, Montréal-Nord 8715, 8ième Ave., Ville St-Michel Berthierville 336 Port Royal Ave. W., Montréal 12 100 Longtin St., St. Johns 8255 St-Michel St., Montreal 704 Notre-Dame St. W., Montréal 10872, ave. Jean-Meunier, Montréal-Nord 931 Amherst St., Montréal 4935 Bourg St., Ville St-Laurent, Montréal 9500 St. Lawrence Blvd., Montreal 11 450 St-Michel St., St.Johns 5585 Fullum St., Montréal 1285 Hodge St., Montréal 9 St-Philippe -de-Prairie 9735 Jeanne Mance St., Montréal 12 10331, rue Pelletier, Montréal-Nord 5525 Paré St., Mount Royal 5600 Paré St., Town of Mount Royal 2090 Moregu St., Montréal 950, Montée-de-Liesse, Montréal 9 8766, 8th Ave., Ville St-Michel 2158, Montgomery St., Montréal \$200 Sartelon St., Ville St-Laurent 12253 Laurentian Blvd., Montréal 167-1st St., Iberville 9250 Hochelaga St., Montréal 10570, rue Cobourg, Montréal Penetray Ltd. Prole-Lite Ltd. Prestige Lighting Mfg. Ltd. Products Beil Inc. Progress Luminaire Ltd. Rest Glow Mfg. Co. Ltd. Rosemount Industries Co. Ltd. Schonbek, A. & Co. Ltd. Seka Impex Co. Shamrocks Lighting Fixtures Inc. Smithcraft of Canada Ltd. Speer Carbon Co. of Canada Ltd. Superior Lighting Mfg, Corp. Sylvania Electric (Canada) Ltd, Tremco Electric (Canada) Ltd, Tremco Electric Manufacturing Co. Thomas-Betts Ltd, Universal Electric Products Co. Ltd. Vogue Lighting Products Westlite Lighting Systems Ltd. York Lighting Corp. Ontario: 431 King St. W., Toronto 2B 469 King St. W., Toronto 2B Bullock Drive, Markham 53 Fraser Ave., Toronto 3 9 Nlagara St., Toronto Industry Street, Toronto 13 3320 Elmbank Rd., Malton 146-30th St., Toronto 14 98 Ossington Ave., Toronto 3 Petersburg 27 Sackville Place, Toronto 5 1402 Queen St. E., Toronto 1530 Birchmount Rd., Scarborough 950 Warden Ave., Scarborough 124 Crockford Blvd., Scarborough 126 Crockford Blvd., Scarborough 108-310 Adelaide St. W., Toronto 28 165 Dufferin St., Toronto 420 South Service Rd., Oakville 155 Brandon Ave., Toronto Alwin Decorative Lighting Alwin Decorative Lighting Alwin Lighting Products Ltd. Amalgamated Electric Corp. Ltd. Amcan Electrical Harness Ltd. Ardon-Mackie Ltd. Arrow-Hart & Hegeman (Canada) Ltd. Berkey Photo (Canada) Ltd. B. & S. Electrical Mfg. Ltd. Blue Star Lighting Ltd. Bowman Electric Herder Burger Lighting Products Ltd. Burgers Micro Switch Co. Ltd. Burndy Canada Ltd. C.E.B. Ltd. C.E.B. Ltd. C.E.B. Ltd. C. & M. Products Ltd. Camesco Lighting Prod. Ltd. Canadian Fluorescent Light Co. and Canadian X-Ray Supply Co. Canadian General Electric Co. Ltd. Canadian General Electric Co. Ltd.

Canadian General Electric Co. Ltd.
Canadian General Electric Co. Ltd.
Canadian General Electric Co. Ltd.
Canadian General Electric Co. Ltd.
Canadian General Electric Co. Ltd.

Canadian General Electric Co. Ltd.
Caneurop Mfg. Co.
Century Lighting of Canada Ltd.
Cie de Sherbinin Co.
Colonial Lighting Co., Ltd.
Comark Components Ltd.
Commercial Enclosed Fuse Co.
Conduits National Company Ltd.
Continental Cables and Conduits Ltd.
Cord (Canada) Ltd.
Crouse-flinds Company of Canada Ltd.
Crown Electrical Mfg. Ltd.
Curtis Allorite Lighting Limited
Custom Control Panels Ltd.
Dominion Carbon Brush Co. Ltd.
Dominion Electric Mfg. Company Ltd.
Dominion Traffic Signals Ltd.
Eagle Electric of Canada Ltd.

Bullock Drive, Markham
53 Fraser Ave., Toronto
1 Nlagara St., Toronto
1 Industry Street, Toronto
1 13 320 Elmbank Rd., Malton
146-30th St., Toronto
14 98 Ossington Ave., Toronto
15 30 Birchmount Rd., Scarborough
27 Sackville Place, Toronto
15 30 Birchmount Rd., Scarborough
1950 Warden Ave., Scarborough
104 Crockford Blvd., Scarborough
105 Warden Ave., Scarborough
108-310 Adelaide St. W., Toronto
108 20 South Service Rd., Oakville
155 Brandon Ave., Toronto
109 Lansdowne Ave., Toronto
109 Lansdowne Ave., Toronto
100 Belfield Rd., Rexdale
24 Carson St., Toronto
100 Belfield Rd., Rexdale
24 Carson St., Toronto
14 RR I, Port Colborne
100 Frederick St., Acton
100 Frederick St., Acton
101 Achald Ave., Scarborough
190 Sydenham St., Brantford
195 Wicksteed Ave., Toronto
11686 Mattawa Ave., Toronto
11686 Mattawa Ave., Toronto
118676 Wicksteed Ave., Toronto
118686 Mattawa Ave., Toronto
118686 Mattawa Ave., Cooksvilla
1500 Evans Ave., Toronto
118686 Mattawa Ave., Cooksvilla
1500 Evans Ave., Toronto
11869 Rey Picketing
119 Norseman St., Toronto
119 RR 2, Picketing
119 Norseman St., Toronto

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
ntario — Concluded:	
Eastern Wire & Conduits Ltd. Eftenor Lighting Industrie Ltd.	1852 Mattawa Ave., Cooksville
Efrenor Lighting Industrie Ltd. Electric Power Accessories Co. Ltd.	7562 Stanfield,Rd., Cooksville 91 Kennedy Rd., Brampton
Electionic research Co.	P P 7 Newcastia
Electro Rubber Products Ltd.	135 Liberty Ave., Toronto 3
Electronic Craftsmen Etlin, H.B. Co. Ltd.	30 Weber St. N., Waterloo
Federal Pacific Electric of Canada	19 Waterman Ave., Toronto 16
Tixturelite Mfg. Co. Ltd.	1207 King St. W., Toronto
Flock Mfg. (1959) Ltd.	
Fost, L.H. (Canada) Ltd. Garey Co. of Canada Ltd.	1064 South Service Rd., Oakville 42 Dufflaw Rd., Toronto 19
larvey huppell of Canada Ltd.	232 Fairall St. Ainv
. I.E. Circuit Breaker (Canada) Ltd.	80 Clayson Rd Weston
isgo of Canada Ltd.	1050 Lakeshore Rd. E. Port Credit
Camro Lighting Products Condu Mfg. Co. Ltd.	23 Brydon Drive, Rexdale 750 South St., Preston
Lighteraft Mfg. Ltd.	201 Weston Road Toronto 9
Acintyre, J.B. Co.	1142 Weston Rd., Toronto 9
1cPhilben Lighting of Canada Ltd.	
lagnetic Coil Ltd. farr Electric Ltd.	61 Laurel St. E., Waterloo 2555 Hensall St., Cooksville
1. B. F. Industries	43 Colville Rd Tomnto 15
fellon Electric Ltd.	20 Lockport Ave., Toronto 18
illion Electric & Machinery Ltd.	208 Chestnut St. E., Whithy
A M Lighting (Hastings) Ltd. Ionarch Massage Equipment Ltd.	12 Hagay Ave. Fort Frie
lonitor industries (Windsor) Ltd.	1527 Crawford St. Windoor
lorganite Canada Limited	49 Mobile Drive, Toronto 16
epco of Canada Ltd.	Industrial Ave., Woodstock
oma Lights Canada Ltd. Oak-Hart Mfg. (Canada) Ltd.	155 Edward St. Aurore
'luker X-Ray Mig, Ltd.	951 Martin Grove Rd. Reviale
'overlite Devices Ltd.	54 Atomic Ave Toronto 19
Pyle-National (Canada) Ltd.	2560 South Sheridan Way, Clarkson
tal: Electric Mfg, Co. Ltd.	406 Adelaide Ave. E., Toronto 2B 489 Dupont St., Toronto 4
S.I.O.C. Limited	27 Jutland Rd., Metropolitan Toronto
rvice Lamp Co, Ltd, The	196 York St., London
Arline Mfg, Ltd, Ltd, Lth & Stone Ltd,	
If Devices Limited	2 Glen Rd., Georgetown 14 Georges St., Hamilton
Taylor Electric Mfg. Co. Ltd.	1111 Elias St., London
Poronto Art Lamp Ltd.	32 Rivet Rd., Toronto
Tung-Sol International Corp. Thion Switch Box Co. Ltd.	391 Orenda Rd., Brampton
irden, J.C. Ltd.	35 McCaui St., Toronto 19 Curity Ave., Toronto 16
Makerield Lighting Ltd	864 Exeter Rd., London
Veller Electric Corp.	121 Counter St., Kingston
White, KM Canada Ltd, Vilson, J.A, Lighting Ltd,	
enon, v.A, Dighting Dett,	2200 Lake Shore Blvd., Toronto 14
nitoba;	
Avanced Lighting Co.	
Amalgamated Electric Corp. Ltd.	677 Notre Dame St., Winnipeg
Electrolier Corporation	1465 Inkster Blvd., Winnipeg 14 446 Selkirk Ave., Winnipeg
deal Electric Mig. Co. Ltd.	
Aighting Materials Ltd.	Fennell & See! St. Winning 19
Stephenson J.R. Ltd.	
super-Lite Mig, Co. Ltd.	1901 Logan Ave., Brooklands
perta:	
Ariel Davis Mfg. Co. Ltd.	7035 Farrell Road, Calgary
tish Columbia;	
Adams Electric Mfg. Ltd.	523 West 8th Ave., Vancouver
Cruchley Electrical Mfg. Ltd.	310 Commercial Dr. Vancouver
Duck, John & Son Ltd.	1246 Hornby St., Vancouver
reeman, W. & Son Ltd.	6100 Silver Ave. Burnahy 1
Marine Electric Ltd. Specialty Lighting Ltd.	137 West 2nd St., North Vancouver
West Coast Electric Ltd. Western Lighting Fixture Co. Ltd.	1652 W. 5th. Ave., Vancouver 9 1980 Cypress St., Vancouver 9
Western Lighting Fixture Co. Ltd.	462 East 5th Ave., Vancouver 10

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 manu-Incturing 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

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receipt of revised data, the inclusion or 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".