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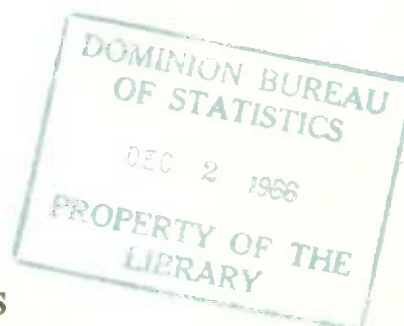
ANNUAL



# MANUFACTURERS OF MISCELLANEOUS ELECTRICAL PRODUCTS

1964

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## MANUFACTURERS OF MISCELLANEOUS ELECTRICAL PRODUCTS

1964

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; panelboards (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 examination of the principal statistics for this industry indicates that the value of shipments and the value of production increased by 13 per cent in 1964. The value of materials used in production increased by 12 per cent and value added on products of own manufacture increased by 13 per cent. Materials used represented 47.5 per cent of the value of production in 1964 against 48 per cent in 1963. Value added represented 52 per cent of the value of production for 1964 whereas for 1963 it was 51 per cent.

The value of shipments of electrical products represented 95 per cent of the total value of shipments of products of own manufacture during 1964. 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.
- preliminary figures.
- † revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000			\$'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
1963													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia.....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	33	2,708	5,488	8,639	718	27,550	57,812	31,085	x	x	3,592	13,208	31,878
Ontario .....	82	4,722	9,896	17,751	1,013	52,388	106,453	54,473	9	94	6,653 <sup>r</sup>	29,221 <sup>r</sup>	57,033
Manitoba.....	7	140	293	440	42	1,462	2,925	1,382	x	x	178	691	1,473
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	1	120	258	376	23	1,973	3,070	1,062	—	—	148	556	1,189
British Columbia .....	5												
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	128	7,690	15,935	27,206	1,796	83,373	170,260	88,001	14	114	10,571 <sup>r</sup>	43,677 <sup>r</sup>	91,573
1964													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	40	2,952	6,299	9,801	791	31,800	68,202	37,136	x	x	3,941	15,282	39,192
Ontario .....	91	4,966	10,271	19,465	1,026	58,407	119,372	61,810	15	151	6,938	31,352	64,983
Manitoba.....	7	130	269	415	40	1,157	2,198	1,082	x	x	170	613	1,186
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	1	119	246	402	27	1,876	2,830	1,013	—	—	154	620	1,137
British Columbia.....	6												
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



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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	4	8	16	27	1	30	87	69	1	5	13	46	69
25,000 " 49,999	6	19	38	61	3	67	187	117	2	9	25	85	161
50,000 " 99,999	11	45	90	137	9	404	783	393	3	12	63	203	405
100,000 " 199,999	18	170	341	504	36	1,306	2,680	1,350	3	43	233	791	1,533
200,000 " 499,999	28	473	956	1,435	115	5,063	9,506	4,334	1	5	671 <sup>r</sup>	2,512 <sup>r</sup>	4,802
500,000 " 999,999	23	1,005	2,095	3,155	196	9,045	16,923	8,239	4	40	1,305	4,985	8,507
1,000,000 " 4,999,999	32	3,571	7,448	12,946	830	48,278	89,067	41,268	—	—	4,988	21,136	43,010
5,000,000 and over	6	2,399	4,950	8,940	607	19,179	51,027	32,229	—	—	2,844	11,467	32,812
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Totals	128	7,690	15,935	27,206	1,796	83,373	170,260	88,001	14	114	10,571 <sup>r</sup>	43,677 <sup>r</sup>	91,573
1964													
Under \$10,000	3	—	—	—	—	8	17	9	3	4	—	—	9
\$ 10,000 to \$ 24,999	6	6	12	19	2	56	116	64	3	16	8	25	64
25,000 " 49,999	4	10	20	35	2	68	158	88	1	7	17	73	114
50,000 " 99,999	12	46	92	150	10	418	821	401	2	7	64	242	399
100,000 " 199,999	22	190	385	602	39	1,661	3,282	1,632	—	—	284	1,092	1,673
200,000 " 499,999	32	552	1,113	1,844	133	5,573	11,001	5,519	7	76	737	2,871	5,859
500,000 " 999,999	20	831	1,720	2,601	118	7,296	14,419	7,130	4	62	1,050	3,908	7,668
1,000,000 " 4,999,999	38	3,688	7,802	13,807	925	51,608	95,054	44,653	—	—	5,167	22,532	47,350
5,000,000 and over	8	2,844	5,940	11,024	657	26,550	67,734	41,545	—	—	3,433	14,457	43,108
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	11	23	46	73	3	318	481	164	3	14	32	108	208
\$ 10,000 to \$ 24,999	10	35	70	110	10	374	702	344	3	12	56	192	357
25,000 " 49,999	21	231	464	649	46	2,102	3,707	1,552	4	48	319	1,046	1,755
50,000 " 99,999	23	390	801	1,204	85	4,592	8,181	3,531	—	—	541	2,004	3,940
100,000 " 199,999	28	1,115	2,343	3,473	229	13,487	22,469	9,301	4	40	1,522 <sup>r</sup>	5,720 <sup>r</sup>	9,769
200,000 " 499,999	12	802	1,669	2,454	294	13,557	21,167	7,760	—	—	1,071	4,126	7,923
500,000 " 999,999	20	3,672	7,611	14,293	726	37,939	80,634	42,977	—	—	4,954	21,916	44,388
1,000,000 " 4,999,999	3	1,422	2,932	4,950	403	11,005	32,920	22,370	—	—	1,647	6,113	22,959
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Totals	128	7,690	15,935	27,206	1,796	83,373	170,260	88,001	14	114	10,571 <sup>r</sup>	43,677 <sup>r</sup>	91,573
1964													
Under \$10,000	6	2	4	7	1	62	97	33	4	9	4	12	33
\$ 10,000 to \$ 24,999	10	17	34	55	7	211	363	155	5	25	24	85	181
25,000 " 49,999	10	38	77	127	8	523	895	373	—	—	57	231	369
50,000 " 99,999	23	224	451	696	47	2,172	3,810	1,672	1	11	318	1,144	1,708
100,000 " 199,999	20	293	574	946	55	3,981	6,721	2,770	2	6	399	1,566	2,890
200,000 " 499,999	35	1,152	2,403	3,770	291	15,281	26,272	11,020	8	121	1,525	5,919	11,958
500,000 " 999,999	15	966	2,014	3,186	130	12,551	22,401	9,931	—	—	1,298	5,251	10,166
1,000,000 " 4,999,999	23	4,019	8,454	15,965	941	46,427	95,961	50,506	—	—	5,442	24,352	52,806
5,000,000 and over	3	1,456	3,075	5,332	405	12,030	36,083	24,581	—	—	1,693	6,639	26,131
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	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

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1963</b>													
Under \$10,000.....	11	21	42	69	3	367	541	176	3	14	28	95	175
\$ 10,000 to \$ 24,999.....	8	28	55	80	7	263	516	271	3	12	46	151	272
25,000 " 49,999.....	20	195	393	554	40	1,657	3,029	1,351	3	35	259	824	1,434
50,000 " 99,999.....	22	333	682	1,039	76	4,606	8,023	3,361	1	14	458	1,676	3,255
100,000 " 199,999.....	31	1,190	2,497	3,699	235	13,629	22,769	9,338	4	40	1,638	6,154	10,342
200,000 " 499,999.....	13	829	1,723	2,522	306	13,907	21,830	8,155	—	—	1,112	4,296	8,474
500,000 " 999,999.....	20	3,672	7,611	14,293	726	37,939	80,634	42,977	—	—	4,954	21,916	44,388
1,000,000 " 4,999,999.....	3	1,422	2,932	4,950	403	11,005	32,920	22,370	—	—	1,647	6,113	22,959
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>128</b>	<b>7,690</b>	<b>15,935</b>	<b>27,206</b>	<b>1,796</b>	<b>83,373</b>	<b>170,260</b>	<b>88,001</b>	<b>14</b>	<b>114</b>	<b>10,571</b>	<b>43,677</b>	<b>91,573</b>
<b>1964</b>													
Under \$10,000.....	6	2	4	7	1	62	97	33	4	9	4	12	33
\$ 10,000 to \$ 24,999.....	9	15	30	48	7	194	334	143	5	25	18	58	143
25,000 " 49,999.....	11	40	80	135	8	540	924	385	—	—	63	258	408
50,000 " 99,999.....	23	224	451	696	47	2,172	3,810	1,672	1	11	318	1,144	1,708
100,000 " 199,999.....	19	270	528	859	50	3,801	6,365	2,584	2	6	363	1,396	2,568
200,000 " 499,999.....	33	1,004	2,098	3,299	250	14,081	24,101	10,046	8	121	1,333	5,206	10,494
500,000 " 999,999.....	18	1,137	2,365	3,743	176	13,931	24,928	11,092	—	—	1,526	6,134	11,953
1,000,000 " 4,999,999.....	23	4,019	8,454	15,965	941	46,427	95,961	50,506	—	—	5,442	24,352	52,806
5,000,000 and over.....	3	1,456	3,075	5,332	405	12,030	36,083	24,581	—	—	1,693	6,639	26,131
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	443	2,668	255
<b>Totals</b> .....	<b>145</b>	<b>8,167</b>	<b>17,085</b>	<b>30,084</b>	<b>1,884</b>	<b>93,239</b>	<b>192,602</b>	<b>101,041</b>	<b>20</b>	<b>171</b>	<b>11,203</b>	<b>47,868</b>	<b>106,497</b>

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1963</b>													
Under 5 employed.....	13	22	44	75	5	437	672	243	6	26	30	106	242
5- 14 employed.....	24	144	299	479	46	1,771	3,604	1,863	4	48	216	823	2,086
15- 49 ".....	47	944	1,933	2,953	408	17,084	27,898	10,830	4	40	1,402	5,609	11,318
50- 99 ".....	13	605	1,248	2,085	96	6,304	12,582	6,446	—	—	816	3,381	6,880
100-199 ".....	15	1,673	3,462	5,452	240	20,783	35,019	14,650	—	—	2,202	8,554	15,482
200-499 ".....	16	4,302	8,949	16,161	1,002	36,993	90,487	53,969	—	—	5,476	22,751	55,292
500 employed and over.....	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>128</b>	<b>7,690</b>	<b>15,935</b>	<b>27,206</b>	<b>1,796</b>	<b>83,373</b>	<b>170,260</b>	<b>88,001</b>	<b>14</b>	<b>114</b>	<b>10,571</b>	<b>43,677</b>	<b>91,573</b>
<b>1964</b>													
Under 5 employed.....	19	24	50	87	11	688	1,083	401	9	34	35	162	398
5- 14 employed.....	29	183	372	655	41	2,869	5,049	2,228	1	11	290	1,173	2,290
15- 49 ".....	47	957	1,935	3,056	252	16,073	26,437	10,390	6	65	1,309	5,143	11,019
50- 99 ".....	19	874	1,802	2,929	307	9,753	20,163	10,690	4	62	1,241	4,840	11,104
100-199 ".....	13	1,316	2,805	4,815	231	19,366	32,737	13,658	—	—	1,767	7,784	15,116
200-499 ".....	15	3,238	6,908	12,359	704	33,043	74,579	42,505	—	—	4,286	18,515	44,474
500 employed and over.....	3	1,575	3,213	6,182	339	11,447	32,553	21,169	—	—	1,832	7,582	21,841
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	443	2,668	255
<b>Totals</b> .....	<b>145</b>	<b>8,167</b>	<b>17,085</b>	<b>30,084</b>	<b>1,884</b>	<b>93,239</b>	<b>192,602</b>	<b>101,041</b>	<b>20</b>	<b>171</b>	<b>11,203</b>	<b>47,868</b>	<b>106,497</b>

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1963</b>													
Individual ownerships .....	9	50	106	160	17	657	1,340	673	14	114	60	199	705
Partnerships .....													
Incorporated companies .....	119	7,640	15,829	27,046	1,779	82,716	168,921	87,328	...	...	10,082 <sup>r</sup>	41,026 <sup>r</sup>	90,594
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	429	2,452	274
<b>Totals .....</b>	<b>128</b>	<b>7,690</b>	<b>15,935</b>	<b>27,206</b>	<b>1,796</b>	<b>83,373</b>	<b>170,260</b>	<b>88,001</b>	<b>14</b>	<b>114</b>	<b>10,571<sup>r</sup></b>	<b>43,677<sup>r</sup></b>	<b>91,573</b>
<b>1964</b>													
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 .....	...	...	...	...	...	...	...	...	...	...	443	2,668	255
<b>Totals .....</b>	<b>145</b>	<b>8,167</b>	<b>17,085</b>	<b>30,084</b>	<b>1,884</b>	<b>93,239</b>	<b>192,602</b>	<b>101,041</b>	<b>20</b>	<b>171</b>	<b>11,203</b>	<b>47,868</b>	<b>106,497</b>

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
<b>\$'000</b>						
<b>Output</b>						
1. Shipments and other revenue .....	170,260	192,602	22,725	24,470	192,985	217,073
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	7,387	8,521	...	...	7,387	8,521
Finished goods .....	16,030	17,664	...	...	16,030	17,664
Deduct opening—Goods in process .....	6,294	7,223	...	...	6,294	7,223
Finished goods .....	14,213	15,400	...	...	14,213	15,400
2. Net inventory change .....	2,910	3,562	...	...	2,910	3,562
3. Gross output (1 + 2) .....	173,170	196,164	22,725	24,470	195,895	220,635
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	17,353	18,533	17,353	18,533
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	5,815	5,553	5,815	5,553
Deduct closing .....	...	...	5,000	6,183	5,000	6,183
5. Cost of goods sold (not of own manufacture) .....	...	...	18,168	17,903	18,168	17,903
8. Materials, supplies, etc. ....	83,373	93,239	985	1,110	84,358	94,349
7. Fuel and electricity .....	1,796	1,884	...	...	1,796	1,884
8. Gross input (5 + 6 + 7) .....	85,169	95,123	19,153	19,013	104,322	114,136
Value added (3 - 8) .....	88,001	101,041	3,572	5,457	91,573	106,497



TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
1963	number										\$'000				
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	1,348	1,360	22	1	418	235	162	46	1,950	1,642	8,639	130	3,319	1,120	13,208
Ontario .....	2,527	2,195	16	-	937 <sup>r</sup>	462	426 <sup>r</sup>	90	3,906 <sup>r</sup>	2,747	17,751	52	8,479	2,939 <sup>r</sup>	29,221 <sup>r</sup>
Manitoba .....	96	44	-	-	20	5	12	1	128	50	440	-	218	33	691
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	83	37	-	-	17	7	4	-	104	44	376	-	154	26	556
British Columbia .....															
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	4,054	3,636	38	1	1,392 <sup>r</sup>	709	604 <sup>r</sup>	137	6,088 <sup>r</sup>	4,483	27,206	182	12,170	4,119 <sup>r</sup>	43,677 <sup>r</sup>
1964															
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	4,106	1,356	15,282
Ontario .....	2,666	2,300	10	-	945	477	452	88	4,073	2,865	19,465	28	8,733	3,126	31,352
Manitoba .....	97	33	-	-	19	6	12	3	128	42	415	-	163	35	613
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	80	39	-	-	16	10	9	-	105	49	402	-	141	77	620
British Columbia .....															
Yukon and Northwest Terri- tories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	4,315	3,852	14	-	1,466	774	648	134	6,443	4,760	30,084	47	13,144	4,593	47,868

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

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January .....	3,807	3,282	3,879	3,417
February .....	3,798	3,272	3,852	3,470
March .....	3,818	3,273	3,870	3,549
April .....	3,756	3,337	3,768	3,496
May .....	3,860	3,496	3,829	3,612
June .....	3,975	3,610	4,208	3,872
July .....	3,969	3,537	4,164	3,806
August .....	4,020	3,701	4,310	3,890
September .....	3,939	3,677	4,188	3,909
October .....	3,873	3,571	4,259	3,854
November .....	3,885	3,548	4,202	3,845
December .....	3,871	3,424	4,189	3,684
Averages .....	3,883	3,477	4,056	3,714
Establishments reporting annual averages (small establishments only) .....	171	159	257	138
Average for all establishments .....	4,054	3,636	4,315	3,852

TABLE 10. Inventories,<sup>1</sup> 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	

book value \$'000						
Opening:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—
Quebec .....	5,479	1,750	7,910	15,139	2,197	17,336
Ontario .....	8,508	5,369	7,363	21,241	2,967	24,208
Manitoba .....	312	68	36	416	369	785
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	232	36	95	363	21	384
British Columbia .....						
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	14,532	7,223	15,404	37,159	5,553	42,712
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—
Quebec .....	6,198	2,002	9,183	17,383	2,773	20,156
Ontario .....	9,372	6,284	8,318	23,974	2,998	26,972
Manitoba .....	378	145	40	563	400	963
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	241	89	127	457	12	469
British Columbia .....						
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	16,189	8,521	17,668	42,378	6,183	48,561

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	2,978	3,071	35
(b) Imported .....	"	4,425	3,676	44
Sub-bituminous coal (from Alberta mines only) .....	"	82	73	1
Anthracite coal .....	"	54	—	—
Lignite coal .....	"	—	65	1
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	199,640	211,828	88
Fuel oil including kerosene or coal oil .....	"	2,694,337	2,684,195	288
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	324,707	173,134	66
(b) Other manufactured gas .....	M cu. ft.	2,824	—	—
(c) Natural gas .....	"	229,827	339,724	309
Other fuel .....	...	10	...	—
Electricity purchased .....	kwh.	80,707,918	83,378,541	920
Steam purchased .....	...	17	...	29
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	106	...	106
3. All establishments:				
Total fuel and electricity used .....	...	1,796	...	1,884

<sup>1</sup> 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 of other variances.

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

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Aluminum:				
Castings .....	lb. 1,567,766	1,019	2,976,173	1,916
Wire rods .....	" 875,464	405	133,536	73
Sheets and strip .....	" 1,267,433	740	1,679,255	933
Other .....	... 1,503	...	1,673	
Brass and bronze:				
Castings .....	lb. 112,771	171	174,694	145
Wire rods .....	" 237,364	86	279,173	114
Sheets and strip .....	" 894,393	529	1,327,181	802
Other .....	... 826	...	880	
Copper:				
Wire rods .....	lb. 381,269	203	830,213	499
Sheets and strip .....	" 789,134	437	614,656	360
Tubing and pipe .....	" 302,599	217	349,214	249
Wire, enameled .....	" 558,000	418	519,447	338
Wire, other insulated .....	... 1,612	...	2,593	
Other .....	... 1,172	...	1,633	
Glass tubing and cane .....	... 947	...	1,055	
Insulating varnishes, japans, enamels and lacquers .....	... 89	...	63	
Insulators, porcelain and glass, 600 volts and over .....	... 78	...	106	
Iron and steel (except alloy):				
Castings (rough and semi-finished received from foundry):				
Iron, gray and malleable .....	ton 527	300	886	376
Steel .....	" 1,163	245	1,270	249
Pig iron .....	" 1,046	68	1,390	86
Steel bars and rods .....	" 1,921	366	2,595	516
Steel sheets and strip:				
Plain .....	" 30,225	5,321	32,673	5,399
Galvanized .....	" 2,198	429	5,209	841
Steel wire .....	" 245	75	235	73
Other (except alloy) .....	... 3,347	...	3,555	
Alloy steel in all forms:				
Stainless .....	... 84	...	66	
Silicon sheets and strips .....	ton 602	294	803	415
Other alloy, including tool steel, all forms .....	... 25	...	43	
Lead .....	lb. 61,531	36	67,030	50
Paints, stains, lacquers, etc. (for finishing only) .....	... 1,413	...	929	
Resins, synthetic (moulding powders, sheets, etc.):				
Vinyl type (PVC, etc.) .....	... 136	...	273	
Polyethylene type (polythene, etc.) .....	... 115	...	189	
Other (bakelite, etc.) .....	... 2,440	...	3,101	
All other materials and components used <sup>1</sup> .....	... 50,907	...	55,741	
2. Containers and other packaging materials and supplies used .....	... 3,611	...	3,768	
3. Operating, maintenance and repair supplies used (excluding fuel) .....	... 2,819	...	3,058	
4. Amount paid out to others for work done on materials owned by establishments .....	... 888	...	1,078	
Totals .....	... 83,373	...	93,239	

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$2,876,000 in 1963, and \$3,507,708 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Carbon brushes for generators and motors .....	869	1,021
Conduit and accessories—See Table 14A .....	13,865	17,222
Cut-outs and fuses.....	1,539	1,433
Industrial control equipment .....	1,206	2,046
Lamps (light sources—bulbs and tubes) See Table 14B,C,D .....	43,268	48,310
Lighting equipment—See Table 14E.....	52,454	56,637
Switchgear and protective equipment .....	16,294	19,961
Wiring devices—See Table 14F.....	17,048	20,126
All other products .....	25,084	27,261
2. Amount received in payment for work done on materials and products owned by others .....	221	375
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(1,589)	(1,789)
Net adjustment for establishments receiving progress payments .....	—	—
Total adjusted value of shipments and work done .....	170,260	192,602

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, 1963 and 1964

	1963		1964	
	Quantity	Value	Quantity	Value
	'000 lbs.	\$'000	'000 lbs.	\$'000
Rigid conduit:				
Steel and non-ferrous .....	39,690	7,742	51,421	8,791
Electrical metallic tubing, steel and non-ferrous .....	14,800	3,216	17,709	3,217
Bends, couplings, elbows, etc.....	...	253	...	x
Outlet and switch boxes .....	...	3,269	...	3,678
Conduit fittings .....	...	1,812	...	2,169
Accessories for rigid conduit etc. ....	...	2,257	...	4,059

B. Incandescent Electric Lamps (Bulbs), 1955-64

Year	Standard type						Miniature <sup>1</sup>	
	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
1955.....					81,599	12,380	41,762	3,833
1956.....					77,555	11,806	43,055	4,178
1957.....	2	2	2	2	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	6,744
1962.....	81,188	14,433	7,895	3,401	89,083	17,835	41,362	6,290
1963.....	88,836	15,554	7,850	3,273	96,686	18,827	56,015	8,600
1964.....	93,035	15,262	8,175	3,381	101,210	18,643	65,147	8,983

See footnotes at end of table.



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

C. Fluorescent Electric Lamps (Bulbs), 1955-64

Year	Standard		Slimline		Totals	
	Number	Value	Number	Value	Number	Value
	000's	\$'000	000's	\$'000	000's	\$'000
1955 .....					5,005	3,561
1956 .....					5,799	4,377
1957 .....	2	2	2	2	6,909	5,567
1958 .....					7,098	5,684
1959 .....					7,482	6,686
1960 .....	7,436	5,791	1,758	3,083	9,194	8,875
1961 .....	8,420	6,019	1,698	3,388	10,118	9,407
1962 .....	9,989	7,654	1,795	3,040	11,784	10,694
1963 .....	10,902	8,043	1,659	2,713	12,561	10,756
1964 .....	12,501	8,946	2,248	3,701	14,749	12,647

D. Photographic Lamps (Bulbs), 1963 and 1964

	1963		1964	
	Quantity	Value	Quantity	Value
	000's	\$'000	000's	\$'000
Photoflash - Miniature .....	51,298	2,861	60,656	4,320
Other .....	18,067	1,371	14,593	1,132
<b>Total photoflash .....</b>	<b>69,365</b>	<b>4,232</b>	<b>75,249</b>	<b>5,452</b>
Other photographic - Projection .....	162	442	121	589
Other .....	138	120	157	129
<b>Total photographic lamp bulbs .....</b>	<b>69,665</b>	<b>4,794</b>	<b>75,527</b>	<b>6,170</b>

E. Electric Lighting Fixtures, 1963 and 1964

	Value	
	1963	1964
	\$'000	
Residential:		
Incandescent .....	8,194	9,677
Fluorescent .....	619	1,704
Commercial and industrial:		
Incandescent .....	4,095	6,521
Fluorescent .....	31,676	26,355
Floodlights:		
Heavy duty incandescent .....	559	653
Light duty incandescent .....	1,522	1,803
Open type .....	119	160
Par lamp holders .....	383	359
Street lighting:		
Incandescent .....	480	563
Fluorescent .....	834	1,091
Mercury .....	4,235	4,832
Street light brackets .....	810	826
Street light standards .....	1,989	3,128
Street light control equipment .....	429	504
Other lighting equipment <sup>3</sup> .....	3,996	3,704
<b>Totals .....</b>	<b>59,940</b>	<b>61,880</b>

See footnotes at end of table.

F. Factory Shipments of Wiring Devices, 1960 to 1964

Year	Value
	\$'000
1960 .....	12,003
1961 .....	14,773
1962 .....	16,492
1963 .....	18,164
1964 .....	21,532

<sup>1</sup> All types, including Christmas tree, flashlight, automobile, etc.

<sup>2</sup> Not available separately - included in totals.

<sup>3</sup> Does not include floor lamps or table lamps.



List of Establishments classified to This Industry, 1964

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

Name	Location
<b>Québec:</b>	
Amesse, René Enr.	103, rue Elmslie, Ville Lasalle
Canadian General Electric Co. Ltd.	280 Faillon St., W., Montréal
Canadian Westinghouse Co. Ltd.	Granby
Canadian Westinghouse Co. Ltd.	3350 Royale St., Trois-Rivières
Columbia Electric Ltd.	St. Isidore
Columbia International Ltd.	Box 68, Place d'Armes, Montréal 1
E.P. Electric Products Co. Ltd.	6003, Côte-de-Liesse, Montréal
Electrolier Corporation	8501 Jarry St. E., Ville d'Anjou
Faraday Products Ltd.	2310 Holt St., Montréal 35
Flex-I-Con Mfg. Co. Ltd.	6155 Lafontaine St., Montréal
Girard, Roger Inc.	10123, Place Hôtel de Ville, Montréal-Nord
Great Lakes Carbon Corporation (Canada) Ltd.	Berthierville
Hi-Scale Products (Canada) Ltd.	336 Port Royal Ave. W., Montréal 12
Hughes, Benjamin Electric Co.	2665 Marcel St., St-Laurent, Montréal 9
Iberville Fittings (1962) Ltd.	100 Longtin St., St. Johns
Leviton Mfg. of Canada Ltd.	8255 St. Michel, St., Montréal
Lumiart Ltd.	704 Notre-Dame St. W., Montréal
Mackay Industrial Electronics	995 St-Dominique St., Montréal
Metal & Electrical Prod. Corp. Ltd.	10872, Ave. Jean-Meunier, Montréal-Nord
Mid-Day Fluorescent Fixtures Inc.	931 Amherst St., Montréal
Modulite Inc. (Div. of Lightolier Canada Ltd.)	4935 Bourg St., Ville St-Laurent, Montréal
Peerless Electric Ltd.	5585 Fullum St., Montréal
Pole-Lite Ltd.	St-Philippe-de-Prairie
Prestige Lighting Mfg. Ltd.	9735 Jeanne Mance St., Montréal 12
Products Bel Inc.	10331, rue Pelletier, Montréal-Nord
Progress Luminaire Ltd.	5525 Paré St., Mount Royal
Rest Glow Mfg. Co. Ltd.	5600 Paré St., Town of Mount Royal
Rosemount Industries Co. Ltd.	2090 Moreau St., Montréal
Schonbek, A. & Co. Ltd.	950, Montée-de-Liesse, Montréal 9
Smithcraft of Canada Ltd.	Box 35, St-Thérèse-de-Blainville
Snoc Ltd.	8465 St. Maurice St., St. Hyacinthe
Speer Carbon Co. of Canada Ltd.	3200 Sartelon St. Ville St-Laurent
Superior Lighting Mfg. Corp.	12253 Laurentian Blvd., Montréal 9
Sylvania Electric (Canada) Ltd.	1 Sylvan Rd., Drummondville
Temco Electric Manufacturing Co.	4700 Amiens St., Montréal
Thomas-Betts Ltd.	767-1st St., Iberville
Universal Electric Products Co. Ltd.	9250 Hochelaga St., Montréal 5
Verbogen Electronics Co.	10603 Berri St., Montréal 12
Vogue Lighting Products	10570, rue Cobourg, Montréal-Nord
Westlite Lighting Systems Ltd.	6665 Upper Lachine Rd., Montréal 24
<b>Ontario:</b>	
Alwin Decorative Lighting	431 King St. W., Toronto 2 B
Alwyn Lighting Products Ltd.	469 King St. W., Toronto 2 B
Amalgamated Electric Corp. Ltd.	Bullock Drive, Markham
Arcon Electrical Harness Ltd.	53 Fraser Ave., Toronto 3
Ardron-Mackie Ltd.	9 Niagara St., Toronto
Arrow-Hart & Hegeman (Canada) Ltd.	Industry Street, Toronto 13
Ascor of Canada Ltd.	3320 Elmbank Rd., Malton
B. & S. Electrical Mfg. Ltd.	146-30th St., Toronto 14
Blue Star Lighting Ltd.	98 Ossington Ave., Toronto 3
Bowman Electric Herder	Petersburg
Burger Lighting Products Ltd.	27 Sackville Place, Toronto 5
Burgess Micro Switch Co. Ltd.	1402 Queen St. E., Toronto
Burndy Canada Ltd.	1530 Birchmount Rd., Scarborough
C.E.B. Ltd.	950 Warden Ave., Scarborough
C. & M. Products Ltd.	124 Crockford Blvd., Scarborough
Camark Components Ltd.	160 Frederick St., Acton
Camesco Lighting Ltd.	195 Wicksteed Ave., Toronto
Canadian Fluorescent Light Co. and Canadian X-Ray Supply Co.	308-310 Adelaide St. W., Toronto
Canadian General Electric Co. Ltd.	221 Dufferin St., Toronto
Canadian General Electric Co. Ltd.	400 South Service Rd., Oakville
Canadian General Electric Co. Ltd.	155 Brandon Ave., Toronto
Canadian General Electric Co. Ltd.	940 Lansdowne Ave., Toronto 4
Canadian General Electric Co. Ltd.	24 Ward St., Toronto 4
Canadian General Electric Co. Ltd.	755 Division St. N., Cobourg
Canadian Static Condenser Co.	Queen Elizabeth Hwy., Beamsville
Caneurop Mfg. Co.	120 Cartwright Ave., Toronto 19
Carillon Lighting Ltd.	149 Sterling Rd., Toronto 3
Colonial Lighting Co., Ltd.	Port Colborne
Commercial Enclosed Fuse Co.	482 Wellington St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto 2
Continental Cables and Conduits Ltd.	1774 Midland Ave., Scarborough
Cord (Canada) Ltd.	149 Sterling Rd., Toronto
Crouse-Hinds Company of Canada Ltd.	1160 Birchmount Rd., Scarborough
Crown Electrical Mfg. Ltd.	19 Sydenham St., Brantford
Curtis Albrite Lighting Limited	195 Wicksteed Ave., Toronto 17
Custom Control Panels Ltd.	Cooksville
Dominion Carbon Brush Co. Ltd.	550 Evans Ave., Toronto 14
Dominion Electric Mfg. Company Ltd.	756 Warden Ave., Scarborough
Dominion Machine & Tool Co. Ltd.	18 Hook Ave., Toronto 9
Dominion Traffic Signals Ltd.	RR # 2, Pickering
Eagle Electric of Canada Ltd.	214 Norseman St., Toronto
Eastern Wire & Conduits Ltd.	Cooksville
Electric Power Accessories Co. Ltd.	Brampton

List of Establishments classified to This Industry, 1964 - Concluded

Name	Location
<b>Ontario:- Concluded:</b>	
Electric Research Co. ....	R.R. # 2, Newcastle
Elektrikords & Harness Ltd. ....	85 Midwest Rd., Scarborough
Electro Rubber Products Ltd. ....	135 Liberty Ave., Toronto 3
Electronic Craftsmen ....	30 Weber St. N., Waterloo
Etlin, H.B. Co. Ltd. ....	1850 Wilson Ave., Weston
Fanon Electronics Can. Ltd. of ....	489 King St., Toronto
Federal Pacific Electric of Canada	19 Waterman Ave., Toronto 16
Fixturlite Electric Supply Co. ....	1207 King St. W., Toronto
Fleck Mfg. (1959) Ltd. ....	78 Harvey St., Tillsonburg.
Frost, L.H. (Canada) Ltd. ....	1064 South Service Rd., Oakville
Garcy Co. of Canada Ltd. ....	42 Dufflaw Rd., Toronto 19
Harvey Hubbell of Canada Ltd. ....	332 Fairall St., Ajax
I.T.E. Circuit Breaker (Canada) Ltd.	80 Clayson Rd., Weston
IlSCO of Canada Ltd. ....	1050 Lakeshore Rd. E., Port Credit
Kamro Lighting Products ....	23 Brydon Drive, Rexdale
Kondu Mfg. Co. Ltd. ....	South St., Preston
Lightcraft Mfg. Ltd. ....	201 Weston Road, Toronto
McIntyre, J.B. Co. ....	702 Weston Rd., Toronto 9
Magnetic Coil Ltd. ....	12 Laurel St. E., Waterloo
Marr Electric Ltd. ....	2555 Hensall St., Cooksville
Mellon Electric Ltd. ....	20 Lockport Ave., Toronto
Milton Electric & Machinery Ltd. ....	208 Chestnut St. E., Whitby
Monitor Industries (Windsor) Ltd. ....	1527 Crawford St., Windsor
Morganite Canada Limited ....	49 Mobile Drive, Toronto 16
Nepco of Canada Ltd. ....	Industrial Ave., Woodstock
Noma Lights Canada Ltd. ....	8-32 Alcorn Ave., Toronto 5
Oak-Hart Mfg. (Canada) Ltd. ....	Aurora
Pickering Feeder Enterprises Ltd. ....	2115 Midland Ave., Scarborough
Pickering X-Ray Mfg. Ltd. ....	951 Martin Grove Rd., Rexdale
Plaxton, John, Co. Ltd. ....	149 Sterling Rd., Toronto
Powerlite Devices Ltd. ....	54 Atomic Ave. Toronto
Pyle-National (Canada) Ltd. ....	2560 South Sheridan Way, Clarkson
Rab Electric Mfg. Co. Ltd. ....	406 Adelaide Ave. E., Toronto 2B
Residential Lighting Studio Co. Ltd.	489 Dupont St., Toronto 4
Rotaflex of Canada Ltd. ....	609 King St. W., Toronto 2B
S.I.O.C. Limited ....	27 Jutland Rd., Metropolitan Toronto
Service Lamp Co. Ltd., The ....	197 King St., London
Skyline Mfg. Co. ....	1287 Caledonia Rd., Toronto
Smith & Stone Ltd. ....	2 Glen Rd., Georgetown
Swift Devices Limited ....	14 Georges St., Hamilton
Taylor Electric Mfg. Co. Ltd. ....	1111 Elias St., Box 173. London
Tung-Sol of Canada Ltd. ....	Box 2000, Brampton
Union Switch Box Co. Ltd. ....	35 McCaul, Toronto
Viriden, J.C. Ltd. ....	19 Curity Ave., Toronto 16
Wakefield Lighting Ltd. ....	864 Wilton Grove Rd., London
Wesson Lighting Ltd. ....	70 Belfield Rd., Rexdale
White, KM Canada Ltd. ....	107 William St., Cornwall
Wilson, J.A. Lighting Ltd. ....	2200 Lake Shore Blvd., Toronto 14
<b>Manitoba:</b>	
Advance Lighting Co. ....	106 Midland St. Winnipeg
Amalgamated Electric Corp. Ltd. ....	677 Notre Dame St., Winnipeg
Globe Electric Manufacturers Co. Ltd.	446 Selkirk Ave., Winnipeg
Ideal Electric Mfg. Co. Ltd. ....	372 Selkirk Ave., Winnipeg 4
Lighting Materials Ltd. ....	803 Erin St., Winnipeg
Stephenson, J.R. Ltd. ....	555 Madison St., St. James
Super-Lite Mfg. Co. Ltd. ....	1901 Logan Ave., Brooklands
<b>Alberta:</b>	
Ariel Davis Mfg. Co. Ltd. ....	7035 Farrell Road, Calgary
<b>British Columbia:</b>	
Adams Electric Mfg. Ltd. ....	523 West 8th Ave., Vancouver
Duck, John & Son Ltd. ....	1246 Hornby St., Vancouver
Freeman, W. & Son Ltd. ....	6102 Silver Ave., Burnaby 1
Marine Electric Ltd. ....	137 West 2nd St., North Vancouver
West Coast Electric Ltd. ....	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 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

### Establishment

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

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

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

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

#### **Head Offices and Auxiliary Units**

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

#### **Employees**

##### **(a) Production and related workers — Manufacturing activities**

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

##### **(b) Production and related workers — Non-manufacturing activities**

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.



### (c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers, etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

### (d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

### (e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

### Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

### Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

### Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

### Materials and Supplies

#### (a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

#### (b) Non-manufacturing activities

##### 1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

##### 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of



purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## **Shipments**

### **(a) General**

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

### **(b) Shipments of goods of own manufacture**

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

### **(c) Shipments of goods not of own manufacture**

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

### **(d) Other revenue**

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

## **Inventories**

### **(a) Manufacturing activities**

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the



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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".