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MANUFACTURERS OF MISCELLANEOUS ELECTRICAL PRODUCTS

1963

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MANUFACTURERS OF MISCELLANEOUS ELECTRICAL PRODUCTS

1963

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

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 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	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		Total employees		Total 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													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	34	2,545	5,367	7,671	551	24,731	53,758	29,764	x	x	3,301	11,765	31,347
Ontario	77	4,422	8,867	15,735	856	48,446	98,381	49,293	7	64	6,426	26,633	51,343
Manitoba	7	153	330	448	35	1,492	3,153	1,536	x	x	245	840	2,135
Saskatchewan	-												
Alberta	2												
British Columbia	5	101	185	316	16	1,341	1,962	564	-	-	123	459	623
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
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	6,667	29,329	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	10,585	43,785	91,573

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	8	14	28	39	3	58	165	106	2	8	22	65	94
25,000 " 49,999	12	24	49	69	6	224	468	254	5	21	43	136	287
50,000 " 99,999	6	29	59	74	5	271	462	189	-	-	47	144	226
100,000 " 199,999	16	159	321	439	25	1,019	2,124	1,058	1	9	219	695	1,064
200,000 " 499,999	27	540	1,078	1,448	91	4,424	8,812	4,276	1	5	787	2,533	4,920
500,000 " 999,999	16	554	1,149	1,539	94	5,734	10,922	5,413	4	41	736	2,709	5,687
1,000,000 " 4,999,999	34	3,871	7,794	13,595	726	45,208	85,185	39,611	-	-	5,260	21,186	41,559
5,000,000 and over	6	2,030	4,271	6,968	508	19,073	49,117	30,250	-	-	2,550	9,736	31,762
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
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													
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	685	2,620	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	10,585	43,785	91,573

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	21	45	93	116	8	498	887	361	7	29	72	206	348
\$ 10,000 to \$ 24,999	10	44	89	131	10	413	766	360	1	9	81	255	431
25,000 " 49,999	12	144	290	394	22	1,004	1,934	924	-	-	191	622	925
50,000 " 99,999	22	379	737	979	85	3,863	7,086	3,160	1	5	505	1,648	3,262
100,000 " 199,999	29	1,058	2,203	3,018	211	17,826	27,463	9,670	4	41	1,539	5,482	10,758
200,000 " 499,999	9	873	1,729	2,468	120	7,465	14,318	6,616	-	-	1,112	3,731	6,954
500,000 " 999,999	19	3,337	6,883	12,607	639	35,427	73,400	38,331	-	-	4,668	19,910	39,784
1,000,000 " 4,999,999	3	1,341	2,725	4,458	382	9,514	31,399	21,736	-	-	1,496	5,351	23,137
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
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													
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	48	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	1,536	5,828	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
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	429	2,452	274
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	10,585	43,785	91,573

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under \$10,000	21	45	93	116	8	498	887	361	7	29	72	206	348
\$ 10,000 to \$ 24,999	8	39	79	108	8	330	642	302	1	9	63	160	303
25,000 " 49,999	15	159	325	453	26	1,209	2,291	1,084	-	-	223	750	1,153
50,000 " 99,999	20	338	649	851	60	3,592	6,529	2,887	1	5	446	1,419	2,933
100,000 " 199,999	25	866	1,823	2,426	173	14,448	22,030	7,792	4	41	1,192	4,324	8,193
200,000 " 499,999	13	941	1,836	2,838	146	9,250	17,442	7,681	-	-	1,324	4,669	8,661
500,000 " 999,999	20	3,492	7,218	12,922	855	37,170	76,034	39,315	-	-	4,848	20,306	40,872
1,000,000 " 4,999,999	3	1,341	2,725	4,458	382	9,514	31,399	21,736	-	-	1,496	5,351	23,137
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
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													
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	9,336	4	40	1,652	6,261	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	14,283	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	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Totals	128	7,690	15,935	27,206	1,796	83,373	170,260	88,001	14	114	10,585	43,785	91,573

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under 5 employed	15	18	37	52	5	332	615	272	7	29	29	93	272
5- 14 employed	29	154	321	465	33	2,055	3,826	1,764	2	14	242	826	1,824
15- 49 " "	37	860	1,750	2,340	182	13,876	21,968	8,217	4	41	1,190	4,264	6,717
50- 99 " "	17	807	1,632	2,492	119	9,747	17,916	8,155	-	-	1,171	4,378	8,842
100-199 " "	12	1,438	2,919	4,497	202	15,729	29,877	14,153	-	-	1,886	6,912	14,933
200-499 " "	15	3,944	8,090	14,325	916	34,272	83,051	46,596	-	-	5,146	20,731	51,011
500 employed and over	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	2,493	(150)
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													
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	1,358	5,379	11,318
50- 99 " "	13	605	1,248	2,085	96	6,304	12,582	6,446	-	-	874	3,718	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	...	...	...	...	...	...	...	...	...	...	429	2,452	274
Totals	128	7,690	15,935	27,206	1,796	83,373	170,260	88,001	14	114	10,585	43,785	91,573

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	9	46	112	135	10	517	1,099	572	13	84	55	165	570
Partnerships													
Incorporated companies	116	7,175	14,637	24,036	1,448	75,494	156,155	80,585	...	...	9,609	37,039	85,029
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	432	2,493	(150)
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													
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	...	...	10,096	41,133	90,594
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
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	10,585	43,785	91,573

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	157,254	170,260	25,202	22,725	182,456	192,985
Inventories - Goods of own manufacture:						
Add closing - Goods in process	6,503	7,387	...	...	6,503	7,387
Finished goods	12,899	16,030	...	...	12,899	16,030
Less opening - Goods in process	5,895	6,294	...	...	5,895	6,294
Finished goods	12,135	14,213	...	...	12,135	14,213
2. Net inventory change	1,372	2,910	...	...	1,372	2,910
3. Gross output (1 + 2)	158,626	173,170	25,202	22,725	183,828	195,895
Input						
4. Purchases of goods not of own manufacture .....	...	...	20,953	17,353	20,953	17,353
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	4,548	5,815	4,548	5,815
Less closing .....	...	...	5,528	5,000	5,528	5,000
5. Cost of goods sold (not of own manufacture) .....	...	...	19,973	18,168	19,973	18,168
6. Materials, supplies, components and semi-processed goods	76,011	83,373	937	985	76,948	84,358
7. Fuel and electricity	1,458	1,796	...	...	1,458	1,796
8. Gross input (5 + 6 + 7)	77,469	85,169	20,910	19,153	98,379	104,322
Census value added (3 - 8)	81,157	88,001	4,292	3,572	85,449	91,573

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1962															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	1,228	1,317	-	-	568	188	-	-	1,796	1,505	7,671	-	4,093	-	11,765
Ontario	2,460	1,962	-	-	1,459	545	-	-	3,919	2,507	15,735	-	10,897	-	26,633
Manitoba	113	40	-	-	69	23	-	-	182	63	449	-	392	-	840
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	65	36	-	-	17	5	-	-	82	41	316	-	142	-	459
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	3,866	3,355	-	-	2,113	761	-	-	5,979	4,116	24,171	-	15,524	-	39,697
1963															
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	-	939	462	438	90	3,920	2,747	17,751	52	8,479	3,047	29,329
Manitoba	96	44	-	-	20	5	12	1	128	50	440	-	218	33	691
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	83	37	-	-	17	7	4	-	104	44	376	-	154	26	556
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	4,054	3,636	38	1	1,394	709	616	137	6,102	4,483	27,206	182	12,170	4,227	43,785

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	3,661	3,139	3,807	3,282
February	3,616	3,172	3,798	3,272
March	3,703	3,247	3,818	3,273
April	3,711	3,217	3,756	3,337
May	3,796	3,285	3,860	3,496
June	3,896	3,358	3,975	3,610
July	3,914	3,302	3,969	3,537
August	4,049	3,439	4,020	3,701
September	4,085	3,489	3,939	3,677
October	3,989	3,578	3,873	3,571
November	3,985	3,609	3,885	3,548
December	3,928	3,441	3,871	3,424
Average for establishments reporting monthly detail (collected only for large establishments) ..	3,866	3,355	3,883	3,477
Average for small establishments (only annual averages collected) .....	...	...	171	159
Average for all establishments	3,866	3,355	4,054	3,636

TABLE 4. Industry Inventories,¹ 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	4,671	1,364	6,345	12,380	2,773	15,153
Ontario	6,971	4,783	12,091	23,845	2,683	26,528
Manitoba	381	101	70	552	351	904
Saskatchewan	—	—	—	—	—	—
Alberta	236	46	117	399	7	406
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	12,260	6,294	18,622	37,176	5,815	42,990
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	5,220	1,631	7,619	14,470	1,866	16,336
Ontario	7,738	5,642	12,783	26,163	2,744	28,907
Manitoba	286	78	53	417	369	786
Saskatchewan	—	—	—	—	—	—
Alberta	210	36	114	360	21	381
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	13,454	7,387	20,570	41,411	5,000	46,410

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 270	5	2,978	37
(b) Imported	" 4,678	59	4,425	53
Sub-bituminous coal (from Alberta mines only)	" 96	1	82	2
Anthracite coal	" —	—	54	—
Lignite coal	" —	—	—	—
Coke	" —	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 215,345	89	199,640	82
Fuel oil including kerosene or coal oil	" 2,618,320	280	2,694,337	303
Wood	cord —	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 433,946	54	324,707	88
(b) Other manufactured gas	M cu.ft. 744	1	2,824	4
(c) Natural gas	" 130,894	145	229,827	229
Other fuel .....	... ..	101	... ..	10
Electricity purchased	kwh. 63,141,923	649	80,707,918	865
Steam purchased .....	... ..	12	... ..	17
2. Estimate for small establishments:				
Fuel and electricity .....	... ..	61	... ..	106
3. All establishments:				
Total fuel and electricity used .....	... ..	1,458	... ..	1,796

¹ The difference between figures in this table and those in Table 2, 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 2. See also "Concepts and Definitions" for explanation or other variances.

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Aluminum:				
Castings	lb. 1,239,755	1,039	1,567,766	1,019
Wire rods	" 442,703	214	875,464	405
Sheets and strip	" 1,117,357	649	1,267,433	740
Other .....	... 1,052	...	1,503	...
Brass and bronze:				
Castings	lb. 151,354	144	112,771	171
Wire rods	" 236,311	87	237,384	86
Sheets and strip	" 651,051	358	894,393	529
Other .....	... 807	...	826	...
Copper:				
Wire rods	lb. 306,657	166	381,269	203
Sheets and strip	" 657,056	382	789,134	437
Tubing and pipe	" 186,000	108	302,599	217
Wire, enamelled	" 425,600	332	558,000	418
Wire, other insulated .....	... 1,420	...	1,612	...
Other .....	... 1,284	...	1,172	...
Glass tubing and cane .....	... 936	...	947	...
Insulating varnishes, japans, enamels and lacquers .....	... 64	...	89	...
Insulators, porcelain and glass, 600 volts and over .....	... 97	...	78	...
Iron and steel (except alloy):				
Castings (rough and semi-finished received from foundry):				
Iron, gray and malleable	ton 460	290	527	300
Steel	" 1,217	236	1,163	245
Pig iron	" 1,037	82	1,046	68
Steel bars and rods	" 5,343	1,232	1,921	366
Steel sheets and strip:				
Plain	" 22,143	4,743	30,225	5,321
Galvanized	" 3,663	659	2,198	429
Steel wire	" 232	70	245	75
Other (except alloy) .....	... 2,399	...	3,347	...
Alloy steel, in all forms:				
Stainless .....	... 84	...	84	...
Silicon sheets and strips	ton 664	383	602	294
Other alloy, including tool steel, all forms .....	... 2,027	...	25	...
Lead	lb. 55,750	32	61,531	36
Paints, stains, lacquers, etc. (for finishing only) .....	... 1,407	...	1,413	...
Resins, synthetic (moulding powders, sheets, etc.):				
Vinyl type (PVC, etc.) .....	... 164	...	136	...
Polyethylene type (polythene, etc.) .....	... 114	...	115	...
Other (bakelite, etc.) .....	... 2,362	...	2,440	...
All other materials and components used ¹ .....	... 44,217	...	50,907	...
2. Containers and other packaging materials and supplies used .....	... 3,358	...	3,611	...
3. Operating, maintenance and repair supplies used (excluding fuel) .....	... 2,380	...	2,819	...
4. Amount paid out to others for work done on materials owned by establishments .....	... 632	...	888	...
Totals .....	... 76,011	...	83,373	...

¹ No detailed information on materials used was collected from smallestablishments, the estimated costs for which are included here. These estimated costs were \$2,369,000 in 1962 and \$2,876,000 in 1963.

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

Description	Value	
	1962	1963
	\$'000	
1. Products:		
Carbon brushes for generators and motors	688	869
Conduit and accessories - See Table 8	14,972	13,865
Cut-outs and fuses	1,765	1,539
Industrial control equipment	980	1,206
Lamps (light sources - bulbs and tubes) See Table 8	39,414	43,268
Lighting equipment - See Table 8	48,257	52,454
Switchgear and protective equipment	15,255	16,294
Wiring devices - See Table 8	15,688	17,048
All other products	21,588	25,084
2. Amount received in payment for work done on materials and products owned by others	-	221
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(1,352)	(1,589)
Net adjustment for establishments receiving progress payments	-	-
Total adjusted value of shipments and work done	157,254	170,260

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

A. Conduit and Accessories for Electrical Wiring, 1962 and 1963

	1962		1963	
	Quantity	Value	Quantity	Value
	'000 lbs.	\$'000	'000 lbs.	\$'000
Rigid conduit:				
Steel and non-ferrous	52,124	8,491	39,690	7,742
Electrical metallic tubing, steel and non-ferrous	16,408	3,056	14,800	3,216
Bends, couplings, elbows, etc. ....	...	254	...	253
Outlets and switch boxes .....	...	2,956	...	3,269
Conduit fittings .....	...	1,994	...	1,812
Accessories for rigid conduit etc. ....	...	2,494	...	2,257

B. Incandescent Electric Lamps (Bulbs), 1954 - 63

Year	Standard type						Miniature ¹	
	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
1954					76,194	12,088	31,422	2,591
1955					81,599	12,380	41,762	3,833
1956	2	2	2	2	77,555	11,806	43,055	4,178
1957					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

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued

C. Fluorescent Electric Lamps (Bulbs), 1954-63

Year	Standard		Slimline		Totals	
	Number	Value	Number	Value	Number	Value
	000's	\$'000	000's	\$'000	000's	\$'000
1954					4,203	3,109
1955					5,005	3,561
1956	1	2	2	3	5,799	4,377
1957					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

See footnotes at end of table.

D. Photographic Lamps (Bulbs), 1962 and 1963

	1962		1963	
	Quantity	Value	Quantity	Value
	000's	\$'000	000's	\$'000
Photoflash - Miniature.....	43,496	2,683	51,298	2,861
Other.....	10,351	537	18,067	1,371
Total photoflash	53,847	3,220	69,365	4,232
Other photographic - Projection.....	188	450	162	442
Other	217	184	138	120
Total photographic lamp bulbs.....	54,252	3,854	69,665	4,794

E. Electric Lighting Fixtures, 1962 and 1963

	Value	
	1962	1963
	\$'000	
Residential:		
Incandescent	7,373	8,194
Fluorescent	873	619
Commercial and industrial:		
Incandescent	4,014	4,095
Fluorescent	27,595	31,676
Floodlights-heavy duty:		
Heavy duty incandescent.....	433	559
Light duty incandescent	1,495	1,522
Open type.....	121	119
Par lamp holders.....	382	383
Street lighting:		
Incandescent	734	480
Fluorescent	823	834
Mercury.....	3,155	4,235
Street light brackets	690	810
Street light standards.....	1,821	1,989
Street light control equipment	293	429
Other lighting equipment ³	1,342	3,996
Totals.....	51,144	59,940

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Concluded
F. Factory Shipments of Wiring Devices, 1959 to 1963

Year	Value
	\$'000
1959	13,239
1960	12,003
1961	14,773
1962	16,492
1963	18,164

¹ All types, including Christmas tree, flashlight, automobile, etc.

² Not available separately - included in totals.

³ Does not include floor lamps or table lamps.

List of Establishments classified to This Industry, 1963

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

Name	Location
Quebec:	
Amesse, Rene Enr.	103 Rue Elmslie, Ville LaSalle
Benjamin Hughes Electric Co.	2665 Marcel St., Montreal
Canadian General Electric Co. Ltd.	280 Faillon St. W., Montreal
Canadian Westinghouse Co. Ltd.	Granby
Canadian Westinghouse Co. Ltd.	Trois-Rivières
Coastal Equipment Ltd.	3 Courcellette St., Quebec
Columbia Electric Limited	St-Isidore
Electrolier Corporation	8501 Jarry St., Montreal
Faraday Products Limited	2310 Holt St., Montreal
Flex-I-Con Mfg. Company Ltd.	6155 Lafontaine St., Montreal
Great Lakes Carbon Corporation (Can.) Ltd.	Berthierville
Leviton Mfg. of Canada Ltd.	8255 St-Michel Blvd., Montreal
Hi-Scale Products (Canada) Ltd.	336 Port Royal West, Montreal
Iberville Fittings Limited	100 Longtin St., St. Johns
Keith Lighting Co.	748 Lusignan St., Montreal
Lumart Ltd.	704 Notre Dame St. W., Montreal
Mid-Day Fluorescent Fixtures Inc.	931 Amherst St., Montreal
Modulite Inc.	4935 Bourg St., St. Laurent
Peerless Electric Limited	5585 Fullum St., Montreal
Pole Lite Ltd.	St-Philip-de-Prairie
Prestige Lighting Mfg. Ltd.	9735 Jeanne Mance, Montreal
Progress Luminaire Ltd.	5525 Paré, Montreal
Rest-Glow Mfg. Co. Ltd.	5600 Paré, St., Montreal
Roger Girard Incorp.	10123 Place Hotel de Ville, Montreal N.
Rosemount Industries Co. Ltd.	2090 Moreau St., Montreal
Schonebek, A. & Co. Ltd.	950 Côte de Liesse, Montreal
Smithcraft of Canada Ltd.	Ste-Thérèse
Snoc Lighting Ltd.	8465 St. Maurice St., St. Hyacinthe
Speer Carbon Co. of Canada Ltd.	305 Decarie Blvd., St-Laurent
Superior Lighting Mfg. Corp.	12253 Reed Blvd., Montreal
Sylvania Electric (Canada) Ltd.	1 Sylvan Road, Drummondville
Temco Electric Mfg. Co.	4700 Amiens Street, Montreal
Universal Electric Products Co. Ltd.	9250 Hochelaga St., Montreal
Ontario:	
Aircraft & Electronic Specialties	Burlington
Alwyn Lighting Products	469 King St. W., Toronto
Amalgamated Electric Corp. Ltd.	Bullock Drive, Markham
Amcan Electrical Harness Ltd.	53 Fraser Ave., Toronto
Ardon-Mackie Ltd.	9 Niagara St., Toronto
Arrow-Hart & Hegeman (Canada) Ltd.	Industry Street, Toronto
B. & S. Electrical Mfrs. Ltd.	146-30th St., Toronto
Brite-Lite Products Co. Ltd.	18 Dorchester Ave., Toronto
Burget Lighting Products Ltd.	27 Sackville Place, Toronto
Burdy Canada Ltd.	1530 Birchmont Rd., Scarborough
C. & M. Products Ltd.	124 Crockford Blvd., Scarborough
Camesco Lighting Ltd.	195 Wicksteed Ave., Toronto
Canadian Electric Box & Stampings	950 Warden Ave., Scarborough
Canadian Fluorescent Light 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
Canadian General Electric Co. Ltd.	24 Ward St., Toronto
Canadian General Electric Co. Ltd.	755 Division St. N., Cobourg
Caneurop Mfg. Co.	120 Cartwright Ave., Toronto 19
Colonial Lighting Co., Ltd., The	Port Colborne
Commercial Enclosed Fuse Co.	482 Wellington St. W., Toronto
Conduits National Company Ltd.	33 Labatt Ave., Toronto
Continental Cables and Conduits Ltd.	36 Crockford Blvd., 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 Allbrite Lighting Limited	195 Wicksteed Ave., Toronto 17
Custom Control Panels Ltd.	Cooksville
Dominion Carbon Brush Co. Ltd.	550 Evans Ave., Toronto
Dominion Electric Mfg. Company Ltd.	756 Warden Ave., Scarborough

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Ontario - Concluded:	
Dominion Machine & Tool Co. Ltd.	18 Hook Ave., Toronto
Eagle Electric of Canada Ltd.	214 Norseman St., Toronto
Eastern Wire & Conduits Ltd.	Cooksville
Electric Power Accessories Co. Ltd.	Brampton
Elektrikords & Harness Ltd.	99-103 McMaster Ave., Ajax
Electro Rubber Products Ltd.	135 Liberty Ave., Toronto 3
Etlin, H.B. Co. Ltd.	1850 Wilson Ave., Weston
Fanon Electronics Can. Ltd.	489 King St., Toronto
Federal Pacific Electric of Canada	19 Waterman Ave., Toronto
Fixturlite Mfg. Co.	1207 King St. W., Toronto
Fleck Mfg. (1959) Ltd.	78 Harvey St., Tillsonburg, Ont.
Frost, L.H. (Canada)	1064 South Service Rd., Oakville
Garcy Co. of Canada Ltd.	42 Dufflaw Rd., Toronto
Harvey Hubbell of Canada Ltd.	Ajax
I.T.E. Circuit Breaker (Canada) Ltd.	80 Clayson Rd., Weston, Ont.
IlSCO of Canada Ltd.	Port Credit
Kamro Lighting Products	23 Brydon Drive, Rexdale
Kondu Mfg. Co. Ltd.	South St., Preston
Lightcraft Mfg. Ltd.	201 Weston Road, Toronto
Magnetic Coil Ltd.	15 Laurel St. E., Waterloo
Marr Electric Ltd.	160 Perth Ave., Toronto
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
Nepco of Canada Ltd.	Industrial Ave., Woodstock
Noma Lights of Canada Ltd.	8-32 Alcorn Ave., Toronto
Oak Hart Mfg. (Canada) Ltd.	Aurora
Pickering Feeder Enterprises Ltd.	Scarborough
Picker X-Ray Mfg. Ltd.	Rexdale
Pritchard X-Ray Mfg. Ltd.	112 Industrial Rd. Richmond Hill
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.	482 Wellington St., Toronto
Residential Lighting Studio Co. Ltd.	489 Dupont St., Toronto 4
Roflex of Canada Ltd.	609 King St. W., Toronto
S.L.O.C. Limited	27 Jutland Rd., Metropolitan Toronto
Service Lamp Co. Ltd., The	197 King St., London
Satco Manufacturing Co. Ltd.	Don Mills
Skyline Mfg. Co.	1287 Caledonia Rd., Toronto
Smith & Stone Ltd.	50 St. Clair, Toronto
Swift Devices Limited	14 George 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, Ont.
John C. Virden Ltd.	19 Curity Ave., Toronto
Wakefield Lighting Ltd.	644 Highland Rd., London
White KM Canada Ltd.	Cornwall
Wilson, J.A., Lighting & Display Ltd.	2200 Lake Shore Blvd., Toronto
Manitoba:	
Advance Lighting Co.	106 Midland St. Winnipeg
Amalgamated Electric Corp. Ltd.	677 Notre Dame St., Winnipeg
Globe Electric Mfg. Co. Ltd.	446 Selkirk Ave., Winnipeg
Ideal Electric Mfg. Co. Ltd.	372 Selkirk Ave., Winnipeg
Lighting Materials Ltd.	803 Erin St. Winnipeg
Stephenson, J.R. Ltd.	555 Madison St. St. James
Super-Lite Electric Mfg. Co. Ltd.	1901 Logan Ave., Brooklands
Alberta:	
Ariel Davis Mfg. Co. Ltd.	7035 Farrell Road, Calgary
British Columbia:	
Duck, John & Son Ltd.	1246 Hornby St., Vancouver
Freeman, W. & Son Ltd.	275 Woodland Drive Vancouver
Marine Electric Ltd.	137 West 2nd St., North Vancouver
West Coast Electric Ltd.	1980 Cypress St. Vancouver
Western Lighting Fixture Co. Ltd.	462 East 5th Ave., Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

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

Employees

(a) Production and related workers – Manufacturing activity

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

(b) Production and related workers – Non-manufacturing activities

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

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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



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

(b) By non-manufacturing activities

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

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

(c) By Total activities

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