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# MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1965

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## MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1965

For statistical purposes the industry titled Motor Vehicle Part and Accessories Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing motor vehicle parts (except truck and bus bodies) and accessories for use on motor vehicles, such as engines, brakes, clutches, axles, gears, transmissions, heaters, horns and mirrors. The manufacture of tires and tubes is classified in Industry No. 163 - Tire and Tube Manufacturers; automobile glass in Industry No. 356 - Glass and Glass Products Manufacturers; and batteries in Industry No. 357 - Battery Manufacturers.

An analysis of the principal statistics for this industry indicates that during 1965 the value of shipments of products of own manufacture increased by 20 per cent, the cost of materials used by 18.7 per cent, the value of production increased by 17.2 per cent and value added increased by 15.9 per cent.

The value of automotive parts and accessories produced accounted for 96 per cent of all products. The balance was made up of such products as castings, forgings, hardware, screw machine products, tools, oil burners, power mowers, marine and industrial engines, electrical fixtures and fittings and railway coil springs.

### SYMBOLS

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

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

TABLE 1. Principal Statistics, 1961-65

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		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals.....	126	15 897	33 058	72 384	5 386	187 995	352 613	158 597	21	118	20 589	102 270	162 696
1962													
Totals.....	131	17 508	38 060	85 453	5 791	236 013	436 260	196 668	22	91	22 203	116 638	202 246
1963													
Totals.....	136	20 266	43 928	103 409	6 387	301 076	544 869	249 256	20	99	25 441	137 633	251 900
1964													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	12	292	644	990	72	2 542	4 568	1 987	3	12	356	1 333	1 988
Ontario .....	123	23 036	50 562	124 789	6 981	348 049	615 578	275 399	14	106	28 392	163 959	278 909
Manitoba.....	6	259	553	894	50	2 176	4 568	2 559	-	-	358	1 471	2 681
Saskatchewan .....	2												
Alberta .....	5	185	363	725	25	1 034	2 109	1 061	x	x	241	985	1 560
British Columbia.....	6	73	141	329	20	456	1 143	671	x	x	95	435	677
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals.....	154	23 845	52 262	127 727	7 148	354 258	627 966	281 677	20	127	29 442	168 187	285 814
1965													
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island.....	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	13	404	954	1 649	101	3 153	7 374	4 305	x	x	511	2 214	4 313
Ontario .....	127	24 882	55 350	145 647	8 598	411 664	740 010	318 142	11	90	30 825	192 203	324 347
Manitoba.....	6	231	495	881	49	2 523	4 865	2 294	-	-	342	1 542	2 489
Saskatchewan .....	2												
Alberta .....	5	155	316	668	29	858	2 134	1 247	x	x	206	940	1 556
British Columbia.....	7	76	153	372	19	580	1 225	653	x	x	98	505	662
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals.....	160	25 748	57 268	149 217	8 796	418 779	755 608	326 641	16	104	31 982	197 403	333 367



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

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	
1964													
Under \$10,000	13	14	28	44	4	111	220	139	8	22	22	74	140
\$ 10,000 to \$ 24,999	5	20	42	71	5	87	164	79	2	10	28	98	100
25,000 " 49,999	5	17	36	63	4	164	377	211	4	34	21	78	211
50,000 " 99,999	20	198	416	681	43	1,313	2,784	1,495	3	13	245	937	1,549
100,000 " 199,999	26	568	1,180	1,920	101	5,822	9,815	3,931	—	—	720	2,711	4,556
200,000 " 499,999	20	727	1,501	2,654	153	7,535	15,199	7,801	—	—	912	3,720	8,760
500,000 " 999,999	44	5,121	10,656	19,508	914	53,919	108,733	55,402	3	48	6,402	27,409	56,737
1,000,000 " 4,999,999	21	17,180	38,405	102,787	5,925	285,308	491,174	212,620	—	—	21,063	132,846	213,773
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	29	311	(12)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	154	23,845	52,262	127,727	7,148	354,258	627,966	281,677	20	127	29,442	168,183	285,814
1965													
Under \$10,000	3	5	9	10	1	9	25	25	—	—	9	23	25
\$ 10,000 to \$ 24,999	5	4	7	13	2	37	93	54	6	16	5	16	54
25,000 " 49,999	7	21	42	63	7	139	248	182	1	5	29	97	180
50,000 " 99,999	8	32	62	114	6	246	593	326	2	17	40	153	352
100,000 " 199,999	15	127	255	501	26	1,031	2,159	1,148	4	15	160	686	1,155
200,000 " 499,999	21	433	822	1,466	63	3,839	7,087	3,298	—	—	543	2,183	3,530
500,000 " 999,999	27	949	1,965	3,475	203	10,714	19,533	8,735	—	—	1,192	4,968	9,590
1,000,000 " 4,999,999	51	5,741	11,871	22,419	1,133	70,937	133,121	63,435	3	50	7,262	31,501	66,254
5,000,000 and over	23	18,436	42,234	121,156	7,354	331,828	592,751	249,439	—	—	22,709	157,393	252,236
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Totals	160	25,748	57,268	149,217	8,796	418,779	755,608	326,641	16	104	31,982	197,403	333,367

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

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	
1964													
Under \$10,000	8	16	33	60	4	97	135	57	4	10	25	88	80
\$ 10,000 to \$ 24,999	12	29	59	82	7	244	431	199	7	25	37	114	199
25,000 " 49,999	7	53	120	189	15	882	1,063	283	5	34	70	235	437
50,000 " 99,999	23	182	386	668	41	2,795	4,497	1,790	1	10	236	975	1,847
100,000 " 199,999	14	311	660	1,033	69	2,975	4,899	2,143	—	—	388	1,455	2,618
200,000 " 499,999	26	1,088	2,256	3,898	162	11,414	19,981	8,605	—	—	1,317	5,186	9,608
500,000 " 999,999	19	1,363	2,707	4,881	271	13,966	27,156	13,771	—	—	1,682	6,884	14,199
1,000,000 " 4,999,999	35	6,383	13,815	27,467	1,544	98,739	175,943	78,573	3	48	7,997	37,663	79,915
5,000,000 and over	10	14,420	32,226	89,449	5,035	223,146	393,860	176,256	—	—	17,661	115,273	176,922
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	29	311	(12)
Totals	154	23,845	52,262	127,727	7,148	354,258	627,966	281,677	20	127	29,442	168,183	285,814
1965													
Under \$10,000	12	84	114	203	11	419	459	130	7	22	101	291	130
\$ 10,000 to \$ 24,999	14	64	126	207	14	772	1,248	519	2	17	82	292	555
25,000 " 49,999	15	119	242	524	28	1,183	2,363	1,176	4	15	150	700	1,182
50,000 " 99,999	13	196	405	681	46	2,710	4,545	1,856	—	—	248	1,006	1,855
100,000 " 199,999	40	1,566	3,241	5,702	354	21,941	34,986	12,990	—	—	1,946	7,966	14,429
200,000 " 499,999	15	1,006	2,000	3,945	211	10,289	22,035	11,682	—	—	1,240	5,475	12,016
500,000 " 999,999	39	7,296	15,285	31,330	1,698	108,616	196,020	88,966	3	50	9,300	43,909	91,535
1,000,000 " 4,999,999	12	15,417	35,854	106,625	6,434	272,850	493,953	209,322	—	—	18,882	137,381	211,647
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	160	25,748	57,268	149,217	8,796	418,779	755,608	326,641	16	104	31,982	197,403	333,367

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

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	
1964													
Under \$10,000 .....	7	3	6	8	2	58	92	49	4	10	7	20	50
\$ 10,000 to \$ 24,999 .....	12	29	59	82	7	244	431	199	7	25	37	114	199
25,000 " 49,999 .....	7	59	132	212	13	669	875	246	5	34	74	258	265
50,000 " 99,999 .....	21	159	340	598	37	2,455	4,038	1,610	1	9	206	861	1,615
100,000 " 199,999 .....	14	262	534	878	65	2,832	4,735	1,992	—	—	322	1,228	2,049
200,000 " 499,999 .....	27	1,058	2,235	3,691	158	10,824	18,867	8,321	—	—	1,262	4,858	9,027
500,000 " 999,999 .....	21	1,472	2,916	5,342	288	15,290	29,126	14,432	—	—	1,847	7,598	15,785
1,000,000 " 4,999,999 .....	35	6,383	13,815	27,467	1,544	98,739	175,943	78,573	3	48	7,997	37,663	79,915
5,000,000 and over .....	10	14,420	32,226	89,449	5,035	223,146	393,860	176,256	—	—	17,661	115,273	176,922
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	29	311	(12)
Totals .....	154	23,845	52,262	127,727	7,148	354,258	627,966	281,677	20	127	29,442	168,183	285,814
1965													
Under \$10,000 .....	12	84	114	203	11	419	459	130	7	22	101	291	130
\$ 10,000 to \$ 24,999 .....	12	52	102	159	11	479	837	432	2	17	64	216	441
25,000 " 49,999 .....	17	131	266	572	31	1,476	2,774	1,263	4	15	168	777	1,296
50,000 " 99,999 .....	14	216	445	755	54	3,010	5,048	2,057	—	—	272	1,106	2,054
100,000 " 199,999 .....	36	1,359	2,850	4,895	309	19,841	31,488	11,700	—	—	1,628	6,575	12,047
200,000 " 499,999 .....	17	1,123	2,206	4,363	221	11,487	23,363	11,787	—	—	1,439	6,302	13,009
500,000 " 999,999 .....	40	7,366	15,431	31,645	1,725	109,217	197,687	89,950	3	50	9,395	44,374	92,719
1,000,000 " 4,999,999 .....	12	15,417	35,854	106,625	6,434	272,850	493,953	209,322	—	—	18,882	137,381	211,683
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Totals .....	160	25,748	57,268	149,217	8,796	418,779	755,608	326,641	16	104	31,982	197,403	333,367

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

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	
1964													
Under 5 employed .....	21	28	56	94	9	945	1,393	485	12	60	40	141	488
5- 14 employed .....	25	163	361	633	44	3,204	5,274	2,200	5	19	228	952	2,368
15- 49 " .....	38	927	1,897	3,340	201	10,745	20,909	10,473	—	—	1,162	4,665	11,248
50- 99 " .....	20	1,222	2,594	4,527	196	13,698	25,944	12,665	3	48	1,470	6,174	13,580
100-199 " .....	22	2,420	4,937	9,847	576	31,849	59,512	27,894	—	—	3,185	14,698	28,671
200-499 " .....	18	4,380	9,609	19,600	1,113	71,927	125,365	54,815	—	—	5,443	26,298	55,659
500 employed and over .....	10	14,705	32,809	89,687	5,009	221,890	389,569	173,145	—	—	17,885	114,945	173,812
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	29	311	(12)
Totals .....	154	23,845	52,262	127,727	7,148	354,258	627,966	281,677	20	127	29,442	168,183	285,814
1965													
Under 5 employed .....	15	17	32	53	11	587	973	439	8	35	28	110	438
5- 14 employed .....	33	217	434	845	54	5,150	8,049	3,060	5	19	289	1,248	3,146
15- 49 " .....	35	904	1,884	3,456	222	12,057	22,644	10,621	—	—	1,141	5,052	11,230
50- 99 " .....	21	1,240	2,596	4,561	253	11,865	24,155	12,117	—	—	1,480	6,112	12,601
100-199 " .....	25	2,853	5,793	11,925	716	47,516	82,711	35,904	3	50	3,764	17,523	37,636
200-499 " .....	18	4,177	8,902	18,818	966	64,789	118,937	54,079	—	—	5,290	26,078	55,083
500 employed and over .....	13	16,340	37,629	109,559	6,574	276,815	498,139	210,422	—	—	19,957	140,899	213,245
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Totals .....	160	25,748	57,268	149,217	8,796	418,779	755,608	326,641	16	104	31,982	197,403	333,367

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

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		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Individual ownerships .....	13	85	187	306	16	844	2,105	1,326	20	127	115	484	1,855
Partnerships .....													
Incorporated companies .....	141	23,760	52,075	127,422	7,133	353,414	625,861	280,351	...	...	29,298	167,388	283,970
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	29	311	(12)
Totals .....	154	23,845	52,262	127,727	7,148	354,258	627,966	281,677	20	127	29,442	168,183	285,814
1965													
Individual ownerships .....	10	137	297	607	16	1,025	2,631	1,693	16	104	161	764	2,219
Partnerships .....													
Incorporated companies .....	150	25,611	56,971	148,610	8,781	417,754	752,977	324,949	...	...	31,788	196,256	331,159
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	33	382	(11)
Totals .....	160	25,748	57,268	149,217	8,796	418,779	753,608	326,641	16	104	31,982	197,403	333,367

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
<b>\$'000</b>						
<b>Output</b>						
1. Shipments and other revenue .....	627,966	755,608	21,244	26,631	649,210	782,239
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	46,498	43,054	...	...	46,498	43,054
Finished goods .....	23,397	24,132	...	...	23,397	24,132
Deduct opening—Goods in process .....	38,074	44,912	...	...	38,074	44,912
Finished goods .....	16,704	23,666	...	...	16,704	23,666
2. Net inventory change .....	15,117	(1,392)	...	...	15,117	(1,392)
3. Gross output (1 + 2) .....	643,083	754,216	21,244	26,631	664,327	780,847
<b>Input</b>						
4. Purchases of goods not of own manufacture .....	...	...	14,938	16,427	14,938	16,427
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	5,261	6,158	5,261	6,158
Deduct closing .....	...	...	5,558	6,248	5,558	6,248
5. Cost of goods sold (not of own manufacture) .....	...	...	14,641	16,337	14,641	16,337
6. Materials, supplies, etc. ....	354,258	418,779	2,466	3,569	356,724	422,348
7. Fuel and electricity .....	7,148	8,796	...	...	7,148	8,796
8. Gross Input (5 + 6 + 7) .....	361,406	427,575	17,107	19,906	378,513	447,481
<b>Value added (3 - 8) .....</b>	<b>281,677</b>	<b>326,641</b>	<b>4,137</b>	<b>6,725</b>	<b>285,814</b>	<b>333,367</b>



TABLE 8. Employment and Payroll, 1964 and 1965

Territory and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	number										\$'000				
1964															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	262	30	-	-	42	15	7	-	311	45	990	-	301	42	1,333
Ontario .....	19,604	3,432	22	5	3,747	1,020	462	100	23,835	4,557	124,789	113	35,363	3,694	163,959
Manitoba .....	183	76	23	2	29	21	20	4	255	103	894	148	289	140	1,471
Saskatchewan .....															
Alberta .....	182	3	-	-	23	17	16	-	221	20	725	-	183	77	985
British Columbia .....	73	-	-	-	18	4	-	-	91	4	329	-	107	-	435
Yukon and Northwest Territories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	20,304	3,541	45	7	3,859	1,077	505	104	24,713	4,729	127,727	262	36,241	3,954	168,183
1965															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	371	33	-	-	71	24	11	1	453	58	1,849	-	522	43	2,214
Ontario .....	20,960	3,922	30	7	4,165	1,155	479	107	25,634	5,191	145,647	148	42,354	4,054	192,203
Manitoba .....	170	61	28	2	36	23	19	3	253	89	881	167	370	123	1,542
Saskatchewan .....															
Alberta .....	151	4	-	-	20	14	17	-	188	18	668	-	203	68	940
British Columbia .....	76	-	-	-	16	5	1	-	93	5	372	-	126	8	505
Yukon and Northwest Territories .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	21,728	4,020	58	9	4,308	1,221	527	111	26,621	5,361	149,217	316	43,576	4,295	197,403

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

Month	1964		1965	
	Male	Female	Male	Female
	number			
<b>Establishments reporting monthly detail (large establishments only):</b>				
January .....	20,174	3,744	21,845	3,776
February .....	20,161	3,677	22,022	3,935
March .....	20,293	3,691	21,826	3,867
April .....	20,527	3,742	22,167	3,888
May .....	20,568	3,668	22,720	3,937
June .....	19,940	3,456	22,590	3,839
July .....	14,550	2,429	19,709	3,318
August .....	19,768	3,337	15,897	3,293
September .....	21,049	3,338	21,209	4,076
October .....	19,161	3,238	21,948	4,347
November .....	21,809	3,541	22,492	4,548
December .....	21,759	3,496	23,147	4,399
<b>Averages</b> .....	<b>19,981</b>	<b>3,445</b>	<b>21,465</b>	<b>3,939</b>
<b>Establishments reporting annual averages (small establishments only)</b> .....	<b>323</b>	<b>96</b>	<b>263</b>	<b>81</b>
<b>Average for all establishments</b> .....	<b>20,304</b>	<b>3,541</b>	<b>21,728</b>	<b>4,020</b>

TABLE 10. Inventories, 1965

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 .....	479	151	317	947	—	947
Ontario .....	45,115	44,463	22,687	112,264	5,734	117,998
Manitoba .....	766	223	575	1,564	190	1,753
Saskatchewan .....						
Alberta .....	215	26	44	285	224	509
British Columbia .....	190	50	43	283	10	293
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	46,764	44,912	23,666	115,342	6,158	121,500
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—
Quebec .....	990	202	450	1,643	25	1,668
Ontario .....	54,283	42,519	23,025	119,827	5,896	125,723
Manitoba .....	839	249	551	1,638	156	1,795
Saskatchewan .....						
Alberta .....	227	28	43	297	163	460
British Columbia .....	261	57	63	381	8	389
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	56,599	43,054	24,132	123,786	6,248	130,034

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

Description		1964		1965	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines .....	ton	6,971	77	4,741	55
(b) Imported .....	"	160,100	1,549	156,063	1,567
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—	—
Anthracite coal .....	"	—	—	—	—
Lignite coal .....	"	—	—	—	—
Coke .....	"	22	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	imp. gal.	962,741	307	1,013,780	305
Fuel oil including kerosene or coal oil .....	"	7,242,884	718	8,595,128	855
Wood .....	cord	—	—	—	—
Gas:					
(a) Liquefied petroleum gases .....	imp. gal.	234,248	53	224,905	42
(b) Other manufactured gas .....	M cu. ft.	—	—	—	—
(c) Natural gas .....	"	1,890,082	1,443	2,653,634	1,992
Other fuel .....		...	—	...	13
Electricity purchased .....	kwh.	305,554,048	2,881	427,631,755	3,670
Steam purchased .....		...	38	...	229
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity .....		...	82	...	—
3. All establishments:					
<b>Total fuel and electricity used</b> .....		...	<b>7,148</b>	...	<b>8,729</b>

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

Description		1964		1965	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used:					
Iron and steel:					
Castings:					
Iron .....	ton	43,727	14,163	104,800	32,265
Steel .....	"	20,556	3,430	40,288	7,230
Pig iron .....	"	36,662	2,327	20,686	1,302
Bars and rods, steel .....	"	145,619	25,167	170,892	29,811
Plates, steel .....	"	4,887	831	5,799	906
Sheets:					
Black .....	"	114,605	18,670	131,909	20,842
Galvanized .....	"	8,832	1,540	6,312	1,150
Tinplate .....	"	2,144	408	2,477	478
Strip, steel .....	"	57,109	9,708	92,591	15,742
Structural shapes .....	"	6,620	1,346	4,565	881
Wire .....	"	5,761	1,403	7,993	1,824
Alloy steel in all forms:					
Stainless:					
Billets, bars and rods .....	"	..	48	..	438
Other .....	"	..	2,056	..	6,176
Other alloy and tool steel (including carbon, alloy and high speed steels):					
Billets, bars and rods .....	"	..	8,823	..	5,090
Other .....	"	..	3,716	..	763
Scrap iron and steel .....	ton	72,681	2,477	67,936	2,932
Iron and steel pipe, tubing and fittings .....	"	..	3,986	..	2,733
Other iron and steel .....	"	..	5,923	..	6,581
Ferro-alloys .....	"	..	1,195	..	1,425
Non-ferrous metals					
Aluminum					
Castings .....	pound	3,389,389	2,561	12,545,503	5,996
Sheet .....	"	629,409	345	673,317	349
Other forms .....	"	8,757,831	2,352	7,844,195	3,201
Brass and bronze .....	"	10,262,143	4,372	16,665,755	8,128
Copper:					
Sheet .....	"	191,484	116	151,710	95
Wire .....	"	5,475,215	3,019	6,147,158	3,770
Other forms .....	"	6,132,478	3,207	8,947,593	5,310
Lead .....	"	141,604	26	146,561	30
Nickel .....	"	1,606,134	1,598	1,815,765	1,806
Zinc .....	"	4,002,549	855	4,502,884	1,003
Babbit metals and solders .....	"	2,802,832	2,074	4,179,232	3,384
Other non-ferrous metals .....	"	...	470	...	160
Other materials:					
Paints, oils and varnishes .....	"	...	680	...	922
Foundry coke for cupola use .....	ton	41,913	1,447	38,947	1,440
Foundry sands .....	"	...	1,073	...	249
Plumbago and graphite .....	pound	622,700	42	795,300	63
Lumber .....	M ft. b.m.	809	88	958	97
Firebrick and cupola blocks .....	"	...	170	...	50
Fireclay .....	"	...	95	...	135
Core oil .....	Imp. gal.	96,943	99	129,476	131
Sulphuric acid, 100% .....	pound	567,860	28	821,510	39
All other materials and components used <sup>1</sup> .....	"	...	191,411	...	209,081
2. Containers and other packaging materials and supplies used .....	"	...	4,982	...	5,642
3. Operating, maintenance and repair supplies used (excluding fuel) .....	"	...	22,812	...	24,645
4. Amount paid out to others for work done on materials owned by establishments .....	"	...	3,122	...	4,485
Totals .....	"	...	354,258	...	418,779

<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 \$4,156,091 in 1964 and \$3,062,684 in 1965.

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

Description	1964		1965	
	Quantity	Value	Quantity	Value
	number	\$'000	number	\$'000
1. Products				
Drive train components:				
Propeller drive shafts and universal shafts .....	...	12,317	...	15,007
Transmissions - automatic and other .....	...	37,248	...	57,296
Other drive train components .....	...	74,343	...	92,942
Engines gasoline .....	463,658	115,257	1	1
Engine parts:				
Pistons .....	3,721,954	4,143	4,390,846	4,437
Pistons rings and expanders .....	...	5,290	...	5,520
Pumps, fuel .....	749,492	1,803	997,357	2,368
Pumps, water .....	120,363	512	159,759	753
Other engine parts .....	...	21,167	...	20,124
Electrical equipment and electrically operated apparatus .....	...	52,260	...	54,728
Stampings, auto. ....	...	41,248	...	57,169
Steering suspensions and front axles:				
Springs, coil .....	...	3,114	...	4,297
Springs, leaf and flat .....	...	19,426	...	28,571
Other steering, suspension and front axle parts .....	...	45,581	...	58,417
Wheel and brake parts .....	...	44,653	...	57,837
Other auto parts .....	...	102,287	...	154,015
All other products .....	...	47,042	...	55,831
2. Amount received in payment for work done on materials and products owned by others .....	...	948	...	562
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(672)	...	(953)
<b>Total adjusted value of shipments and work done .....</b>	...	<b>627,966</b>	...	<b>755,608</b>

<sup>1</sup> Included in "Other auto parts".

TABLE 14. Shipments of Selected Goods of Own Manufacture<sup>1</sup> - All Industries, 1964 and 1965  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Industry	Commodities	Value	
		1964	1965
		\$'000	
Asbestos Products Manufacturers .....	Brake linings, clutch facings, etc. ....	7,143	8,252
Automobile Fabric Accessory Manufacturers .....	Covers, cushions, trim, etc. ....	20,001	33,033
Battery Manufacturers .....	Auto batteries (total vehicle batteries reported) .....	26,217	28,405
Hardware, Tool and Cutlery Manufacturers .....	Automotive hardware, seat belts, etc. ....	3,376	7,110
Household Radio and Television Receivers .....	Auto radios (total automobile radios reported by all industries) .....	12,590	17,664
Metal Stamping, Pressing and Coating .....	Automobile hardware and accessories .....	8,140	6,430
Miscellaneous Leather Products .....	Seat covers, etc. ....	833	653
Motor Vehicle Manufacturers .....	Parts and accessories .....	52,092	159,697
Motor Vehicle Parts and Accessories .....	Axles, brakes, bumpers, differentials, engines, spark plugs, transmissions, wheels, etc. ....	577,964	729,302
Plastic Fabricators .....	Plastic accessories and parts .....	4,315	8,664
Tire and Tubes Manufacturers and Other Rubber Industries .....	Tires, tubes and other rubber products .....	194,025	240,145
Wire and Wire products .....	Steel tire braids, wire springs, etc. ....	18,974	26,610
Other Miscellaneous Industries .....	Plastic components, cables, windshields, etc. ....	38,512	88,992
<b>Totals .....</b>		<b>964,182</b>	<b>1,354,957</b>

<sup>1</sup> It is difficult to obtain from official statistical reports data covering the total shipments by Canadian Manufacturers of original or replacement commodities associated with the Automotive Industry.

The main difficulty is that many products or materials for automotive applications are not identified as such. Examples of these are castings, forgings, screw machine products or fasteners (nuts, bolts, screws, washers, etc.), stampings, spinings, electrical components, etc. Also because of the nature of the products and materials, and the production processes used in their manufacture, it is necessary, for statistical purposes, to classify the firms so engaged in a number of industries e.g. tires are a product of the Rubber Industry, brake linings in the Asbestos Industry, windshields in the Glass Products Industry and so on. Another problem is that some automotive firms manufacture parts and commodities for their own use and these are not reported separately but appear in the total value of the end products. Nevertheless, while noting the foregoing qualifications it is possible to bring together some useful data on parts and accessories from the various industries which report these products and the results of such a compilation are presented in the above table.



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

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

Name	Location
<b>Quebec</b>	
Auto Radiator Mfg. Ltd.	8009-13th Ave., Ville St-Michel
Automotive Spring Mfg. Co. Ltd.	1409 William St., Montreal
Eagle Mfg. Co. Ltd.	740 St. Maurice St., Montreal
Economy Carburetor Co. Ltd.	4232 A Hogan St., Montreal
Farrel Mfg. Co.	420 Aqueduct St., Montreal
H. M. Electronics Inc.	284 Des Vignes, Ile-Bizard
Heatex Limited	780 St-Rémi St., Montreal
International Spring Co. of Canada Ltd.	11101 Parkway Blvd., Ville d'Anjou
McRoberts Spring Inc.	291 Mountain St., Montreal
Specialoid (Canada) Limited	St-Eustache
Stehro Automotive Mfg. Ltd.	896 Montée-de-Liesse, Montréal
Tungsten Contact Mfg. Co. (Canada) Ltd.	8491 Devonshire Place, Montreal
Western Filters Ltd.	372 St. Croix Blvd., St. Laurent
<b>Ontario</b>	
A. J. Industries (Canada) Ltd., Reyco of Canada	Grimsby
AP. Parts Corp. (Canada) Ltd., The	80 Enterprise Rd., Rexdale
Alert Auto Alarm Co.	342 Adelaide St. W., Toronto
Aimco Auto Parts Co.	5150 Dixie Rd. N., Cooksville
Algoma Mfg. Tool & Die Ltd.	177 King St. W., Oshawa
Alham Field Coil Co.	1207 Roselawn Ave., Toronto
All-Metal Machine Specialties Co.	26 Arrow Rd., Weston
Allen Industries Canada Ltd.	450 Cumberland Ave., Hamilton
American Coleman of Canada Ltd.	965 Weston Rd., Toronto 9
Appleby, D. & Co.	18 Ingram Drive, Toronto 15
Arvin Standard Ltd.	Stoney Creek
Bendix-Eclipse of Canada Ltd.	1473 Argyle Rd., Windsor
Berg Mfg. (Canada) Ltd.	60 Apex Rd., Toronto
Bilan Voltage Ltd.	1186 Caledonia Rd., Toronto
Blackstone Industrial Products Ltd.	533 Romeo St., Stratford
Boren Industries Ltd.	924 Walker Rd., Windsor
Bow-Mar Assemblies Ltd.	1 Adam St., Kitchener
Bowlflex Ltd.	890 Walker Rd., Windsor
Bundy Tubing of Canada Ltd., National Tubular Products Div.	1 Adam St., Kitchener
Burmar Mfg. Ltd.	3500 Ontario St., Windsor
Canada-Ferro Co. Ltd.	19 Patherford Rd., Brampton
Canadian Acme Screw & Gear Ltd.	207 Weston Rd., Toronto 9
Canadian Filters Ltd.	277 William St., Chatham
Canadian Motor Lamp Co. Ltd.	2429 Seminole St., Windsor
Canadian Radiator Mfg. Co. Ltd.	267 Niagara St., Toronto
Carter Carburetor of Canada Ltd.	Bramalea
Champion Spark Plug Co. of Canada Ltd.	1624 Howard Ave., Windsor
Clevite Limited, The	1177 Talbot St., St. Thomas
Comco Stampings Ltd.	Uxbridge
Conroy Mfg. Co. Ltd.	55 Catharine St., St. Catharines
Coulter Mfg. Co. Ltd.	23 Richmond St. W., Oshawa
Cozens Spring Service & Mfg. Co. Ltd.	157 Queen St. E., Toronto
D & L Metals Ltd., Banner Metal Products Div.	1680 Kildare Rd., Windsor
Dahl Specialties	948 Walker Rd., Windsor
Dayton Steel Foundry of Canada, Ltd.	177 Silver Creek Parkway, Guelph
Dearborn Steel Tubing Co. (Canada) Ltd.	Goderich
Delman Manufacturing Ltd.	829 Woodward Ave., Hamilton
Dill Mfg. Co. of Canada Ltd., The	215, Evans Ave., Toronto 18
Dominion Auto Accessories Ltd.	420 Keele St., Toronto 9
Dominion Cable & Automotive Products	1 Leswyn Rd., Toronto
Do-Ray Lamp Co. (Canada) Ltd.	Weston
Dynamo Auto Electric Co.	1266 Queen St. W., Toronto 3
Eaton Automotive Canada Ltd.	450 Highbury Ave., London
Electroline Mfg. Co. Ltd.	1305 Windsor Ave., Windsor
Essex Stamping Products Ltd.	444 Hanna St. E., Windsor
Essex Wire Corp. Ltd.	180 Talbot St., St. Thomas
Excel Metalcraft Ltd.	Aurora
Fabricated Metals & Stampings Ltd.	249 Toronto Ave., Oshawa
Fleetwood Metal Industries Ltd.	1801 Walker Rd., Windsor
Flexo Mfg. Co. Ltd.	1283 Caledonia Rd., Toronto 19
Forbys Management Ltd.	1151 Tecumseh Rd. W., Windsor
Ford Motor Co. of Canada Ltd., Engine Plant	Oakville
Ford Motor Co. of Canada Ltd.	2780 Riverside Dr. E., Windsor
Form-Rite Tube Ltd.	2424 Finch Ave. W., Weston
Frank Canada Ltd.	305 Romeo St., Stratford
Gabriel of Canada Ltd.	3600 Lakeshore Blvd., Toronto 14
Galt Metal Industries Ltd.	385 Dundas St., Galt
General Hitch of Canada Ltd.	9 Churchill St., Chatham
Generator & Electric Co. Ltd.	1186 Caledonia Rd., Toronto 19
Glasslynner Mufflers Ltd.	Elmira
Goodwin Glass Industries Ltd.	1052 Wyandotte St. W., Windsor
Graham Automotive Mfg. Ltd.	76 Orfus Rd., Toronto 19
Hamil Wire & Cable Assembles.	Ridgeway
Hastings Limited	390 Birchmount Rd., Scarborough
Hayes Steel Products Ltd.	Thorold
Hendrickson Mfg. (Canada) Ltd.	532 Romeo St., Stratford
Herbert-Morris Crane & Hoist Co. Ltd., Houdaille Industries Div.	Wolfe & Simcoe Sts., Oshawa
Holland Hitch of Canada Ltd.	595 Athlone Ave., Woodstock
Hull-Thompson Ltd.	1325 McDougall St., Windsor
Imco Steel Products Co. Ltd.	3710 Peter St., Windsor
Ingersoll Machine & Tool Co. Ltd.	Ingersoll
International Formed Tubes Ltd.	111 Manville Rd., Scarborough
Karno Co. Ltd., The	938 Walker Rd., Windsor

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
<b>Ontario - Concluded:</b>	
Kelsey Wheel Co. Ltd.	309 Ellis Ave. E., Windsor
Kranilator Filters Ltd.	Preston
Kysor Industrial of Canada Ltd.	Ridgetown
Lake Simcoe Industries Ltd.	Beaverton
Lanark Mfg. Limited	Dunville
Long Mfg. Co. Ltd.	Oakville
McCord Corporation	Orangeville
McKinnon Industries Ltd.	570 Glendale Ave., St. Catharines
McKinnon Industries Ltd.	Windsor
McQuay-Norris Mfg. Co. of Canada Ltd.	Ray & Goddard Ave., Toronto 15
McRoberts Spring Inc.	370 King St. E., Toronto 2
Monroe-Acme Limited	207 Weston Rd., Toronto 9
Morco Products Ltd.	Kingston
Muffler Corp. of Canada Ltd., The	406 Comstock Rd., Scarborough
National Auto Radiator Mfg. Co. Ltd.	2575 Airport Rd., Windsor
Nelmer Corp. (Canada) Ltd.	3600 Lakeshore Blvd. W., Toronto 14
North American Plastics Co. Ltd.	Wallaceburg
Ontario Steel Products Co. Ltd.	Chatham
Ontario Steel Products Co. Ltd.	Milton
Ontario Steel Products Co. Ltd.	Oshawa
Oshawa Engineering & Welding Co. Ltd.	25 Albert St., Oshawa
Perfect Circle Co. Ltd., The	888 Don Mills Rd., Don Mills
Perfection Automotive Products (Windsor) Ltd.	3766 Peter St., Windsor
Plaza Fibreglass Mfg. Ltd.	4440 Chesswood Dr., Downsview
Prestolite Company, Div. of Eltra of Canada Ltd.	704 Mara St., Point Edward
Purulator Products (Canada) Ltd.	320 Kipling Ave. S., Toronto 18
Rockwell Standard (Tilbury) Ltd.	Tilbury
S.K.D. Mfg. Co. Ltd.	Amherstburg
Sales, A.J. Co. Ltd.	Ridgetown
Schrader's A., Son Div. Scovill Mfg. Co.	334 King St. E., Toronto 2
Schwitzer Corp.	818 Erie St., Stratford
Sealed Power Corp. of Canada, Ltd.	182 King St., Stratford
Sehl Engineering Ltd.	136 Ottawa St. S., Kitchener
Shuttleworth Moulded Products Ltd.	698 Commissioner's Rd. W., London
Simpson, R.J. Mfg. Co. (Canada) Ltd.	Thamesville
Somerville Automotive Trim Ltd.	3950 Maldon Rd., Windsor
Standard Products (Georgetown) Ltd.	Georgetown
Stewart-Warner Corp. of Canada Ltd.	349 MacDonald Ave., Belleville
Tecumseh Metal Craft Ltd.	6500 Tecumseh Rd. E., Windsor
Thermoid of Canada Ltd.	125 MacDonald Blvd., Acton
Thompson Products Ltd.	230 Leuth St., St. Catharines
Trim Trends Canada Ltd.	241 Fairall St., Ajax
Van Dresser Specialty (Canada) Ltd.	Waterloo
Venco Metals Ltd.	347 Royal York, Toronto 18
Vibron Limited	76 Industry St., Toronto 15
Wagner Brake Co. Ltd.	100 Clayson Rd., Weston
Warner Gear Co. Ltd.	325 Devonshire Rd., Windsor
Weatherhead Co. of Canada Ltd., The	109-117 Inkerman St., St. Thomas
Wells Manufacturing (Canada) Ltd.	14 Plastics Ave., Toronto
West Coast Mirror of Canada	1908 Mattawa St., Cooksville
Wilson-Hinschberger Ltd.	44 Dawson Rd., Guelph
Wix Corporation Ltd.	25 Curity Ave., Toronto
Wrigley Steel Co. of Canada Ltd.	1573 McDougall St., Windsor
Yankee Metal Prod. Of Canada Ltd.	99 Tycoos Drive, Toronto
<b>Manitoba:</b>	
Automotive Accessory Co. Ltd.	771 Main St., Winnipeg
Carter James B., Ltd.	421 Mulvey Ave., Winnipeg
Manitoba Auto Spring Works	175 Fort St., Winnipeg
New Super Motor Products Ltd.	407 William Ave., Winnipeg
Prudential Automotive Products Ltd.	1430 Church Ave., Winnipeg
Richardson Mfg. Co. Ltd.	92 Gomez St., Winnipeg
<b>Saskatchewan:</b>	
Modern Spring Works Ltd.	331 Ave. A. South, Saskatoon
Spring Service Ltd.	2055 Broad St., Regina
<b>Alberta:</b>	
Ajax Oil Pump Service	4206-118th Ave., Edmonton
McCoy Bros., Ltd.	112 Ave. & 149 St. Edmonton
Peerless Motor Products Ltd.	6110-1 A St. S.W., Calgary
Staden's Ltd.	2nd St. S.E. at 24th Ave., Calgary
Silver Star Industries	Lethbridge
<b>British Columbia:</b>	
A.C. Radiator Mfg. Co. Ltd.	1225 E. Pender St., Vancouver
Center Mfg. Co.	401 E. Georgia, Vancouver
Cords Piston Rings (1963) Ltd.	834 Johnson St., Victoria
Dendoff Springs (Nanaimo) Ltd.	Nanaimo
Dendoff Springs Ltd.	232 West Second Ave., Vancouver
McAllister Spring Co Ltd.	425 W-6th Ave., Vancouver
Per Lux Lights Canada Ltd.	33 East 3rd St., 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 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

### Establishment

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

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

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

Each establishment is required to report on all the activities carried out within 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

NOV 23 1967

CATALOGUE NO.  
42-210  
ANNUAL

Motor Vehicle Parts and Accessories Manufacturers

1965  
ERRATA

Page 12 - Table 13

	<u>Reads</u>	<u>Value</u> <u>\$'000</u>	<u>Should read</u>
Other auto parts .....	154,015		240,703

6506-826







receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

**(b) Non-manufacturing activities**

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

**Value Added**

**(a) By manufacturing activities**

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

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

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

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

**(c) By Total activities**

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

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