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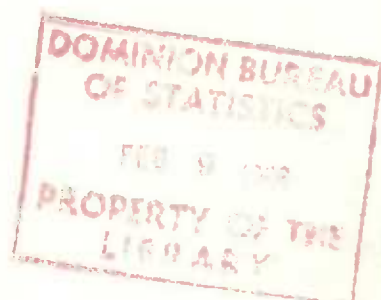
ANNUAL



# MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1963

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## PUBLICATIONS

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Q — Quarterly

M — Monthly

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## MOTOR VEHICLE PARTS AND ACCESSORIES MANUFACTURERS

1963

Data presented in this report under the heading Motor Vehicle parts and Accessories Manufacturers reflect implementation of the revised Standard Industrial Classification (SIC) 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 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. 337 - Battery Manufacturers.

### 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	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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	9	197	421	638	58	1,277	2,639	1,344	x	x	230	825	1,300
Ontario	105	16,861	36,677	83,164	5,640	231,536	426,896	191,813	13	70	21,393	113,379	197,023
Manitoba	4	277	606	892	40	2,125	4,291	2,193	—	—	360	1,341	2,303
Saskatchewan	2												
Alberta	4	112	233	504	28	743	1,576	816	—	—	143	738	1,115
British Columbia	7	61	123	255	25	332	857	500	x	x	77	354	506
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	9	210	464	710	69	1,452	2,889	1,368	x	x	247	928	1,374
Ontario	110	19,595	42,509	101,023	6,220	295,973	534,767	244,341	17	88	24,589	134,251	248,507
Manitoba	4	239	512	807	42	2,154	4,349	2,214	—	—	323	1,280	2,310
Saskatchewan	2												
Alberta	4	159	308	629	31	1,030	1,981	927	—	—	202	857	1,299
British Columbia	7	63	134	239	25	467	882	406	x	x	80	319	410
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	136	20,266	43,928	103,409	6,387	301,076	544,869	249,256	20	89	25,441	137,633	253,900

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

Size group	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	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1962</b>													
Under \$10,000.....	8	12	19	31	2	40	118	76	4	9	18	52	77
\$ 10,000 to \$ 24,999.....	8	8	12	23	4	119	284	169	11	33	9	27	169
25,000 " 49,999.....	8	28	58	105	12	290	619	330	—	—	49	193	354
50,000 " 99,999.....	13	150	280	541	34	782	1,949	1,146	4	20	191	759	1,263
100,000 " 199,999.....	18	427	895	1,395	98	2,856	5,971	3,390	—	—	506	1,825	3,635
200,000 " 499,999.....	22	855	1,718	2,857	152	7,397	15,340	8,104	—	—	1,054	4,170	9,009
500,000 " 999,999.....	40	4,232	9,160	15,856	918	47,608	91,655	44,277	3	29	5,581	23,734	46,848
1,000,000 " 4,999,999.....	14	11,796	25,917	64,646	4,571	176,922	320,324	139,175	—	—	14,795	85,877	140,890
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>131</b>	<b>17,508</b>	<b>38,060</b>	<b>85,453</b>	<b>5,791</b>	<b>236,013</b>	<b>436,260</b>	<b>196,668</b>	<b>22</b>	<b>91</b>	<b>22,203</b>	<b>116,638</b>	<b>202,246</b>
<b>1963</b>													
Under \$10,000.....	8	7	14	22	3	40	108	68	5	13	12	36	68
\$ 10,000 to \$ 24,999.....	7	26	40	53	5	142	273	145	2	17	29	88	149
25,000 " 49,999.....	9	41	90	148	10	334	703	383	6	19	52	192	435
50,000 " 99,999.....	10	88	176	351	26	639	1,459	832	4	20	111	487	832
100,000 " 199,999.....	19	336	667	1,117	63	3,533	6,152	2,576	—	—	417	1,576	2,617
200,000 " 499,999.....	23	916	1,968	3,296	210	8,774	17,080	8,254	—	—	1,152	4,701	9,323
500,000 " 999,999.....	41	4,590	9,449	16,538	804	47,455	94,393	48,061	3	30	5,820	23,862	49,496
1,000,000 " 4,999,999.....	19	14,268	31,525	81,884	5,266	240,160	424,700	188,936	—	—	17,848	106,690	190,980
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>136</b>	<b>20,266</b>	<b>43,928</b>	<b>103,409</b>	<b>6,387</b>	<b>301,076</b>	<b>544,869</b>	<b>249,256</b>	<b>20</b>	<b>99</b>	<b>25,441</b>	<b>137,633</b>	<b>253,900</b>

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

Size group	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	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
<b>1962</b>													
Under \$10,000.....	5	6	10	18	1	13	54	38	2	2	11	32	40
\$ 10,000 to \$ 24,999.....	11	16	25	41	3	256	441	190	11	33	21	56	190
25,000 " 49,999.....	8	25	50	94	11	340	633	294	2	8	41	169	310
50,000 " 99,999.....	11	116	231	409	32	903	1,830	907	4	20	142	549	987
100,000 " 199,999.....	16	305	627	1,042	71	2,577	4,875	2,332	—	—	381	1,448	2,582
200,000 " 499,999.....	27	1,053	2,132	3,604	205	10,340	18,846	8,764	3	29	1,240	4,873	10,101
500,000 " 999,999.....	18	1,333	2,763	4,595	219	11,372	24,001	12,906	—	—	1,729	6,752	13,837
1,000,000 " 4,999,999.....	27	4,164	9,088	17,733	1,371	59,760	111,146	51,376	—	—	5,453	25,862	52,816
5,000,000 and over.....	8	10,490	23,135	57,918	3,878	150,450	274,434	119,860	—	—	13,185	76,897	121,383
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>131</b>	<b>17,508</b>	<b>38,060</b>	<b>85,453</b>	<b>5,791</b>	<b>238,013</b>	<b>436,260</b>	<b>196,668</b>	<b>22</b>	<b>91</b>	<b>22,203</b>	<b>116,638</b>	<b>202,246</b>
<b>1963</b>													
Under \$10,000.....	6	4	8	11	2	26	65	40	4	10	7	19	40
\$ 10,000 to \$ 24,999.....	6	12	25	33	3	87	181	83	2	7	18	53	90
25,000 " 49,999.....	11	50	106	161	7	608	953	383	7	32	61	217	380
50,000 " 99,999.....	15	108	213	414	35	1,646	2,778	1,137	—	—	150	651	1,200
100,000 " 199,999.....	14	276	548	974	74	2,124	4,259	2,081	4	20	338	1,316	2,110
200,000 " 499,999.....	29	1,203	2,587	4,229	219	13,533	23,531	10,055	—	—	1,468	5,816	11,080
500,000 " 999,999.....	15	1,103	2,243	3,895	219	10,801	22,257	11,445	3	30	1,412	5,885	12,171
1,000,000 " 4,999,999.....	31	5,471	11,725	23,176	1,306	82,523	145,598	64,263	—	—	7,074	32,805	65,409
5,000,000 and over.....	9	12,039	26,475	70,515	4,522	189,729	345,247	159,768	—	—	14,913	90,871	181,420
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>136</b>	<b>20,266</b>	<b>43,928</b>	<b>103,409</b>	<b>6,387</b>	<b>301,076</b>	<b>544,869</b>	<b>249,256</b>	<b>20</b>	<b>98</b>	<b>25,441</b>	<b>137,633</b>	<b>253,900</b>



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	
<b>1962</b>													
Under \$10,000.....	4	4	6	9	1	11	42	29	2	2	7	20	29
\$ 10,000 to \$ 24,999.....	12	18	29	48	4	259	453	200	11	33	25	68	201
25,000 " 49,999.....	6	17	34	64	7	285	482	202	2	8	23	95	201
50,000 " 99,999.....	11	103	214	376	33	868	1,680	802	4	20	134	527	840
100,000 " 199,999.....	15	244	485	844	62	2,004	4,019	2,030	—	—	311	1,206	2,173
200,000 " 499,999.....	26	958	1,973	3,225	192	8,616	16,736	8,071	—	—	1,115	4,305	8,343
500,000 " 999,999.....	22	1,510	3,095	5,236	244	13,760	27,269	14,099	3	29	1,950	7,659	16,282
1,000,000 " 4,999,999.....	26	3,829	8,295	15,562	1,187	55,066	101,243	46,461	—	—	5,067	23,113	47,810
5,000,000 and over.....	9	10,825	23,928	60,089	4,061	155,144	284,337	124,774	—	—	13,571	79,646	126,389
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>131</b>	<b>17,508</b>	<b>38,060</b>	<b>85,453</b>	<b>5,791</b>	<b>236,013</b>	<b>436,260</b>	<b>196,668</b>	<b>22</b>	<b>91</b>	<b>22,203</b>	<b>116,638</b>	<b>202,246</b>
<b>1963</b>													
Under \$10,000.....	7	6	12	18	2	47	97	51	4	10	10	29	50
\$ 10,000 to \$ 24,999.....	5	10	20	26	3	66	149	73	2	7	15	43	80
25,000 " 49,999.....	11	50	106	161	7	608	953	383	7	32	61	217	380
50,000 " 99,999.....	13	98	192	373	32	1,291	2,293	981	—	—	132	572	980
100,000 " 199,999.....	16	286	569	1,016	77	2,478	4,743	2,237	4	20	356	1,395	2,330
200,000 " 499,999.....	26	1,057	2,292	3,603	192	12,111	20,991	8,948	—	—	1,227	4,715	8,971
500,000 " 999,999.....	17	1,191	2,402	4,303	239	11,683	23,797	12,001	—	—	1,569	6,641	13,241
1,000,000 " 4,999,999.....	32	5,529	11,860	23,394	1,314	83,063	146,598	64,815	3	30	7,158	33,150	66,449
5,000,000 and over.....	9	12,039	26,475	70,515	4,522	189,729	345,247	159,768	—	—	14,913	90,871	161,420
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>136</b>	<b>20,266</b>	<b>43,928</b>	<b>103,409</b>	<b>6,387</b>	<b>301,076</b>	<b>544,869</b>	<b>249,258</b>	<b>20</b>	<b>99</b>	<b>25,441</b>	<b>137,633</b>	<b>253,900</b>

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	
<b>1962</b>													
Under 5 employed.....	19	25	42	74	7	387	715	330	15	43	38	118	330
5- 14 ".....	16	93	195	352	24	1,203	2,570	1,383	—	—	130	537	1,507
15- 49 ".....	31	715	1,462	2,486	182	7,610	14,517	6,846	4	20	879	3,545	7,600
50- 99 ".....	26	1,461	3,064	5,295	375	16,276	31,262	15,395	3	29	1,793	7,405	16,410
100-199 ".....	17	1,827	3,814	6,756	352	19,222	38,039	18,937	—	—	2,479	10,517	19,803
200-499 ".....	15	3,099	6,756	13,526	1,017	43,322	82,469	39,102	—	—	3,960	19,145	40,361
500 employed and over.....	7	10,288	22,727	56,964	3,834	147,991	266,687	114,676	—	—	12,924	75,372	116,217
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>131</b>	<b>17,508</b>	<b>38,060</b>	<b>85,453</b>	<b>5,791</b>	<b>236,013</b>	<b>436,260</b>	<b>196,668</b>	<b>22</b>	<b>91</b>	<b>22,203</b>	<b>116,638</b>	<b>202,246</b>
<b>1963</b>													
Under 5 employed.....	13	15	30	45	5	154	331	169	7	31	22	68	175
5- 14 ".....	26	154	321	591	42	2,264	3,936	1,716	10	38	209	881	1,801
15- 49 ".....	30	727	1,510	2,546	161	9,293	17,377	8,001	—	—	913	3,650	8,261
50- 99 ".....	21	1,242	2,632	4,475	249	12,012	23,703	11,676	3	30	1,500	6,112	12,744
100-199 ".....	18	1,829	3,773	7,082	442	25,138	46,859	22,102	—	—	2,484	11,269	22,563
200-499 ".....	21	4,861	10,635	22,532	1,445	72,376	131,342	60,725	—	—	6,007	29,734	61,596
500 employed and over.....	7	11,438	25,026	66,138	4,043	179,839	321,321	144,868	—	—	14,306	85,919	146,760
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals</b> .....	<b>136</b>	<b>20,266</b>	<b>43,926</b>	<b>103,409</b>	<b>6,387</b>	<b>301,076</b>	<b>544,869</b>	<b>249,256</b>	<b>20</b>	<b>99</b>	<b>25,441</b>	<b>137,633</b>	<b>253,900</b>

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

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Individual ownerships .....	5	7	10	17	2	48	138	88	5	22	7	17	88
Partnerships .....	6	69	125	198	12	1,058	1,469	424	17	69	78	250	815
Incorporated companies .....	120	17,432	37,925	85,238	5,777	234,906	434,653	196,156	—	—	22,118	116,371	201,343
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	—	—	—	—	—	—	—	—	—	—	—	—	—
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													
Individual ownerships .....	7	13	27	42	3	136	273	137	7	37	14	44	138
Partnerships .....	5	78	178	295	11	699	1,322	740	13	62	104	422	1,229
Incorporated companies .....	124	20,175	43,723	103,072	6,372	300,241	543,274	248,378	—	—	25,323	137,168	252,534
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	136	20,266	43,928	103,409	6,387	301,076	544,869	249,256	20	99	25,441	137,633	253,900

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 .....	436,260	544,869	18,347	21,048	454,607	565,917
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	31,506	37,418	...	...	31,506	37,418
Finished goods .....	14,682	17,550	...	...	14,682	17,550
Less opening—Goods in process .....	31,594	27,866	...	...	31,594	27,866
Finished goods .....	12,382	15,251	...	...	12,382	15,251
2. Net inventory change .....	2,212	11,851	...	...	2,212	11,851
3. Gross output (1 + 2) .....	438,472	556,720	18,347	21,048	456,819	577,768
Input						
4. Purchases of goods not of own manufacture .....	...	...	12,477	14,607	12,477	14,607
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	3,892	5,064	3,892	5,064
Less closing .....	...	...	5,074	5,327	5,074	5,327
5. Cost of goods sold (not of own manufacture) .....	...	...	11,295	14,344	11,295	14,344
6. Materials, supplies, components and semi-processed goods .....	236,013	301,076	1,472	2,058	237,485	303,134
7. Fuel and electricity .....	5,791	6,387	...	...	5,791	6,387
8. Gross input (5 + 6 + 7) .....	241,804	307,463	12,767	16,402	254,571	323,865
Census value added (3-8) .....	196,668	249,256	5,578	4,646	202,246	253,900



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		Admin- istra- tive and office	Sales and distrib- ution	Total salaries and wages
	Manufacturing		Other								Manufact- uring	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Manufact- uring	Other					
	number										\$'000				
1962															
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	178	19	—	—	16	12	5	—	199	31	638	—	167	21	825
Ontario .....	14,324	2,537	5	6	3,192	823	422	84	17,943	3,450	83,164	31	27,005	3,179	113,379
Manitoba .....	202	75	25	3	20	16	17	2	264	96	892	151	184	114	1,341
Saskatchewan .....															
Alberta .....	110	2	—	—	12	9	9	1	131	12	504	—	172	62	738
British Columbia .....	61	—	—	—	12	4	—	—	73	4	255	—	100	—	354
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	14,875	2,633	30	9	3,252	864	453	87	18,610	3,593	85,453	183	27,628	3,376	116,638
1963															
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	194	16	—	—	21	13	3	—	216	29	710	—	202	16	928
Ontario .....	16,528	3,067	53	—	3,439	935	467	100	20,487	4,102	101,023	243	29,398	3,587	134,251
Manitoba .....	160	79	23	3	21	16	19	2	223	100	807	139	211	122	1,260
Saskatchewan .....															
Alberta .....	154	5	—	—	15	14	14	—	183	19	629	—	171	57	857
British Columbia .....	63	—	—	—	14	3	—	—	77	3	239	—	79	—	319
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	17,099	3,167	76	3	3,510	981	503	102	21,188	4,253	103,409	382	30,060	3,782	137,633

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	14,457	2,389	16,198	3,132
February .....	14,407	2,467	16,468	3,009
March .....	14,663	2,529	16,619	2,972
April .....	15,048	2,489	16,894	3,067
May .....	15,213	2,615	17,129	3,078
June .....	14,275	2,623	17,025	2,989
July .....	11,120	1,903	13,014	2,384
August .....	13,537	2,365	15,410	2,792
September .....	14,855	2,785	17,201	3,204
October .....	15,382	2,896	17,987	3,435
November .....	15,857	2,995	18,850	3,556
December .....	16,014	2,846	19,340	3,589
Average for establishments reporting monthly detail (collected only for large establishments) .....	14,608	2,576	16,842	3,104
Average for small establishments (only annual averages collected) .....	267	57	257	63
Average for all establishments .....	14,875	2,633	17,099	3,167

TABLE 4. Industry Inventories, 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 .....	277	32	228	537	—	537
Ontario .....	33,264	27,733	14,380	75,377	4,815	80,192
Manitoba .....	654	74	441	1,168	175	1,344
Saskatchewan .....						
Alberta .....	186	27	33	247	74	321
British Columbia .....	90	—	169	259	—	259
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	34,471	27,866	15,251	77,588	5,064	82,653
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—
Quebec .....	261	39	221	521	—	521
Ontario .....	35,039	37,258	16,622	88,920	5,077	93,997
Manitoba .....	635	95	480	1,210	181	1,391
Saskatchewan .....						
Alberta .....	250	25	42	317	69	386
British Columbia .....	112	—	185	297	—	297
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	36,297	37,418	17,550	91,265	5,327	96,592

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	10,427	7,189	81
(b) Imported .....	"	154,427	157,474	1,523
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	4,173	58	2
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	721,958	917,048	291
Fuel oil including kerosene or coal oil .....	"	6,050,795	7,424,982	709
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	297,690	318,170	54
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	1,052,598	1,407,699	1,048
Other fuel .....	...	15	...	—
Electricity purchased .....	kwh.	240,875,769	258,984,943	2,565
Steam purchased .....	...	28	...	43
2. Estimate for small establishments:				
Fuel and electricity .....	...	64	...	71
3. All establishments:				
<b>Total fuel and electricity used</b> .....	...	<b>5,791</b>	...	<b>6,387</b>

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

Description		1962		1963	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:					
Iron and steel:					
Castings:					
Iron .....	ton	20,562	7,560	35,433	11,572
Steel .....	"	4,646	1,978 <sup>r</sup>	1,711	1,115
Pig iron .....	"	33,279	2,086 <sup>r</sup>	40,202	2,621
Bars and rods, steel .....	"	68,909	11,374	154,491	26,600
Plates, steel .....	"	17,078	2,990	4,861	839
Sheets:					
Black .....	"	57,158	8,571	84,569	13,244
Galvanized .....	"	4,772	727	4,596	991
Tinplate .....	"	1,824	352	1,530	294
Strip, steel .....	"	57,040	8,454	59,190	10,272
Structural shapes .....	"	3,407	599	4,048	732
Wire .....	"	4,377	988	5,107	1,184
Alloy steel in all forms:					
Stainless:					
Billets, bars and rods .....		..	44	..	56
Other .....		..	1,667	..	2,664
Other alloy and tool steel (including carbon, alloy and high speed steels):					
Billets, bars and rods .....		..	4,578	..	5,836
Other .....		..	525	..	782
Scrap iron and steel .....	ton	23,379	798	48,680	1,508
Iron and steel pipe, tubing and fittings .....		..	2,870	..	3,466
Other iron and steel .....		..	2,606	..	4,994
ferro-alloys .....		..	394	..	503
Non-ferrous metals:					
Aluminum:					
Castings .....	pound	415,906	487	2,225,834	1,469
Sheet .....	"	325,983	177	630,629	330
Other forms .....	"	5,227,108	1,530	2,734,950	1,911
Brass and bronze .....	"	7,229,116	2,976	7,961,156	3,078
Copper:					
Sheet .....	"	315,000	219	121,328	90
Wire .....	"	3,988,802	2,208	5,927,522	3,234
Other forms .....	"	3,312,620	1,702	4,464,225	2,276
Lead .....	"	107,279	27	88,429	25
Nickel .....	"	889,344	908	1,833,965	1,672
Zinc .....	"	2,653,983	770	3,637,380	797
Babbitt metals and solders .....	"	1,226,966	673	1,230,675	844
Other non-ferrous metals .....	"	...	396	...	560
Other materials:					
Paints, oils and varnishes .....		...	413	...	526
Foundry coke for cupola use .....	ton	20,074	697	34,153	1,140
Foundry sands .....		...	114	...	566
Plumbago and graphite .....	pound	413,900	34	430,500	34
Lumber .....	M ft. b.m.	773	83	903	98
Firebrick and cupola blocks .....		...	53	...	56
Fireclay .....		...	80	...	104
Core oil .....	imp. gal.	71,488	73	88,963	92
Sulphuric acid, 100% .....	pound	1,365,909	27	1,539,200	27
All other materials and components used <sup>1</sup> .....		...	144,467	...	170,493
2. Containers and other packaging materials and supplies used .....					
3. Operating, maintenance and repair supplies used (excluding fuel) .....					
4. Amount paid out to others for work done on materials owned by establishments .....					
Totals .....		...	236,013	...	301,076

<sup>†</sup> See Explanatory Notes.

<sup>2</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimate costs were \$2,003,910 in 1962 and \$3,538,929 in 1963.

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

Description	1962		1963	
	Quantity	Value \$'000	Quantity	Value \$'000
<b>1. Products:</b>				
Axles and axle shafts .....	..	10,803	..	29,921
Battery cables and ground straps .....	..	648	..	925
Brakes and parts .....	..	7,480	..	10,796
Hardware, automobile .....	..	7,125	..	9,073
Heaters (car and engine block) .....	..	3,279	..	4,628
Oil filters and elements .....	..	9,355	..	10,572
Pistons .....	No. 2,512,165	2,459	2,654,728	2,630
Piston rings .....	" 11,662,709	3,787	16,519,555	4,802
Radiators, complete .....	" 296,427	4,809	387,135	6,638
Radiator cores .....	..	2,142	..	2,040
Spark plugs .....	No. 38,296,799	11,310	37,214,269	11,868
Springs, auto chassis (flat and coil) .....	..	9,760	..	19,564
Other automobile parts <sup>1</sup> .....	...	319,070	...	385,854
Received from repairs .....	...	1,437	...	1,646
All other products <sup>2</sup> .....	...	43,154	...	43,889
<b>2. Amount received in payment for work done on materials and products owned by others .....</b>	...	318	...	442
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(676)	...	(419)
Net adjustment for establishments receiving progress payments .....	...	—	...	—
<b>Total adjusted value of shipments and work done .....</b>	...	<b>436,260</b>	...	<b>544,869</b>

<sup>1</sup> Includes products reported by less than 3 firms, such as engines, ignition coils, differentials, transmissions, wheels, windshields, steering gears, clutches, generators, distributors, etc.

<sup>2</sup> Includes iron castings, chain, oil burners, electric motors, etc.

Note: Data given in the above table are for Motor Vehicle Parts and Accessories Manufacturers, which includes only the concerns that manufactured motor auto parts as their chief products. Figures for the individual items do not necessarily represent the total output for Canada as there may also have been an output by concerns classified to other industrial groups.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963

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

Industry	Commodities	Value	
		1962	1963
		\$'000	
Asbestos Products Manufacturers .....	Brake linings, clutch facings, etc. ....	5,789	5,836
Automobile Fabric Accessory Manufacturers .....	Covers, cushions, trim, etc. ....	13,075	17,091
Battery Manufacturers .....	Auto batteries (total vehicle batteries reported) .....	23,464	24,703
Hardware, Tool and Cutlery Manufacturers .....	Automotive hardware, seat belts, etc. ....	2,340	4,622
Household Radio and Television Receivers .....	Auto radios (total automobile radios reported by all industries) .....	9,348	11,873
Metal Stamping, Pressing and Coating .....	Automobile hardware and accessories .....	5,038	5,404
Miscellaneous Leather Products Manufacturers .....	Seat covers, etc. ....	650	830
Motor Vehicle Manufacturers .....	Repair parts and accessories .....	28,788	43,976
Motor Vehicle Parts and Accessories .....	Axles, brakes, bumpers, differentials, engines, spark plugs, transmissions, wheels, etc. ....	388,036	499,310
Plastic Fabricators .....	Plastic accessories and parts .....	1,987	3,212
Tire and Tubes Manufacturers and Other Rubber Industries .....	Tires, tubes and other rubber products .....	174,513	178,321
Wire and Wire products .....	Steel tire braids, wire springs, etc. ....	12,847	15,345
Other Miscellaneous Industries .....	Plastic components, cables, windshields, etc. ....	33,615	34,459
<b>Totals .....</b>		<b>699,690</b>	<b>844,982</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, 1963

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

Name	Location
<b>Quebec:</b>	
Allen Neverleak Mfg. Co.	Joliette
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
Farrell Mfg. Co.	1843 St. Antoine St., Montreal
Heatex Limited	780 St. Remi St., Montreal
Specialoid (Canada) Ltd.	St. Eustache
Western Filters Ltd.	372 St. Croix Blvd., St. Laurent
<b>Ontario</b>	
Aimco Auto Parts Co.	Cooksville
Algoma Mfg. Tool & Die Ltd.	Oshawa
Alham Field Coil Co.	1207 Roselawn Ave., Toronto
All-Metal Machine Specialities Co.	26 Arrow Rd., Weston
American Coleman of Canada Ltd.	965 Weston Rd., Toronto 9
Appleby, D. & Co.	18 Ingram Drive, Toronto 15
Banner Metal Products Ltd.	1680 Kildare Rd., Windsor
Bendix-Eclipse of Canada Ltd.	1473 Argyle Rd., Windsor
Berg Mfg. (Canada) Ltd.	2 Bulever St., Toronto 2B
Bilan Voltage Ltd.	1935 Willson Ave., Weston
Blackstone Industrial Products Ltd.	Stratford
Border Distributing Co.	1638 Langlois Ave., Windsor
Burmac Mfg. Ltd.	3500 Ontario St., Windsor
Canada - Ferro Co. Ltd.	Brampton
Canadian Acme Screw & Gear Ltd.	207 Weston Rd., Toronto 9
Canadian Filters Ltd.	Chatham
Canadian Motor Lamp Co. Ltd.	2429 Seminole St., Windsor
Canadian Radiator Mfg. Co. Ltd.	267 Niagara St., Toronto
Carrick's Auto Spring Repairs	2002 Dundas St. W., Toronto
Champion Spark Plug Co. of Canada Ltd.	1624 Howard Ave., Windsor
Clevite Limited, The	St. Thomas
Comco Stampings Ltd.	Uxbridge
Conroy Mfg. Co. Ltd.	55 Catharine St., St. Catharines
Coulter Mfg. Co. Ltd.	Oshawa
Cozens Spring Service & Mfg. Co. Ltd.	157 Queen St. E., Toronto 2
Dayton Steel Foundry of Canada, Ltd.	Orillia
Dearborn Steel Tubing Co. (Canada) Ltd.	Goderich
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	217 Richmond St. W., Toronto 2B
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
Electronic Components Ltd.	14 Plastics Ave., Toronto 14
Esco Stampings Products Ltd.	444 Hanna St. E., Windsor
Essex Wire Corp. Ltd.	St. Thomas
Excel Metalcraft Ltd.	Aurora
Fabricated Metals & Stampings Ltd.	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.	2780 Riverside Dr. E., Windsor
Fram Canada Ltd.	Stratford
Gabriel of Canada Ltd.	3600 Lakeshore Blvd., Toronto 14
Galt Metal Industries Ltd.	Galt
Glasslyner Mufflers Ltd.	Elmira
Goodwin Glass Industries Ltd.	1052 Wyandotte St. W., Windsor
Graham Automotive Mfg. Ltd.	76 Orfus Rd., Toronto 19
Hamel Wire & Cable Assemblies	Ridgetown
Hastings Limited	390 Birchmount Rd., Scarborough
Hayes Steel Products Ltd.	Thorold
Hendrickson Mfg. (Canada) Ltd.	Stratford
Hull-Thomson Ltd.	1325 McDougall St., Windsor
Huron Steel Products Co. Ltd.	3710 Peter St., Windsor
Ingersoll Machine & Tool Co. Ltd.	Ingersoll
International Formed Tubes Ltd.	111 Manville Rd., Scarborough
Karco Co. Ltd., The	938 Walker Rd., Windsor
Kelsey Wheel Co. Ltd.	309 Ellis Ave. E., Windsor
Kralinor Filters Ltd.	Preston
Lake Simcoe Industries Ltd.	Beaverton
Lanark Mfg. Limited	Dunnville
Long Mfg. Co. Ltd.	Oakville
McCord Corporation	890 Walker Rd., Windsor
McKinnon Industries Ltd.	Ontario St., St. Catharines
McKinnon Industries Ltd.	Windsor
McQuay-Norris Mfg. Co. of Canada Ltd.	Ray & Coddard Ave., Toronto 15
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
National Tubular Products Ltd.	Kitchener
Nelmor Corp. (Canada) Ltd.	3600 Lakeshore Blvd. W., Toronto 14
Ontario Steel Products Co. Ltd.	Chatham
Ontario Steel Products Co. Ltd.	Milton
Ontario Steel Products Co. Ltd.	Oshawa
Oshawa Engineering & Welding Co. Ltd.	Oshawa
Paramay Limited	572 Chippawa, Windsor
Perfect Circle Co. Ltd., The	888 Don Mills Rd., Don Mills
Perfection Automotive Products (Windsor) Ltd.	3766 Peter St., Windsor
Plaza Fibreglass Mfg. Ltd.	5 Leswyn Rd., Toronto 19
Polyventure Co. Ltd.	Peterborough



List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
<b>Ontario - Concluded:</b>	
Premier Automotive Units Ltd.	300 Mary St., Hamilton
Prestolite Limited	Point Edward
Provincial Eng. Ltd. (Houdaille Industries)	Oshawa
Purolator Products (Canada) Ltd.	320 Kipling Ave. S., Toronto 18
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
Sealed Power Corp. of Canada, Ltd.	Stratford
Sehl Engineering Ltd.	Kitchener
Shuttleworth Moulded Products Ltd.	698 Commissioner's Rd. W., London
Simpson, R.J., Mfg. Co. (Canada) Ltd.	Thamesville
Standard Products (Georgetown) Ltd.	Georgetown
Stewart-Warner Corp. of Canada Ltd.	Belleville
Swenco Mfg. Co. Ltd.	New Hamburg
Tecumseh Metal Craft Ltd.	6500 Tecumseh Rd. E., Windsor
Thompson Products Ltd.	230 Louth St., St. Catharines
Travel-Eaz Trailer Products	Chatham
Trim Trends Canada Ltd.	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
Watson Spring Co. Ltd.	370 King St. E., Toronto 2
Weatherhead Co. of Canada Ltd., The	St. Thomas
Wilson-Hinschberger Ltd.	Guelph
Wix Corporation Ltd.	25 Curly Ave., Toronto
Wrigley Steel Co. of Canada Ltd.	1573 McDougall St., Windsor
Yankee Metal Prod. of Canada Ltd.	99 Tyco's 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
Richardson Mfg. Co. Ltd.	92 Gomez St., Winnipeg
<b>Saskatchewan:</b>	
Modern Spring Works Ltd.	331 Ave. A. South, Regina
Spring Service Ltd.	2055 Broad St., Regina
<b>Alberta:</b>	
McCoy Bros. Ltd.	112 Ave. & 149 St., Edmonton
Nordheimer Spring Service Co. Ltd.	15816-111th Ave., Edmonton
Peerless Motor Products Ltd.	6110-1A St. S.W., Calgary
Standen's Ltd.	2nd St. S.E. at 24th Ave., Calgary
<b>British Columbia:</b>	
A.C. Radiator Mfg. Co. Ltd.	1225 E. Pender St., Vancouver
Centre Mfg. Co.	401 E. Georgia, Vancouver
Cords Piston Rings (1963) Ltd.	834 Johnson St., Victoria
Dendoff Springs Ltd.	Nanaimo
Dendoff Springs Ltd.	232 West Second Ave., Vancouver
General Plastics Ltd.	2925 Norland Ave., Burnaby
McAllister Spring Co. Ltd.	425 W-6th 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



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".

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