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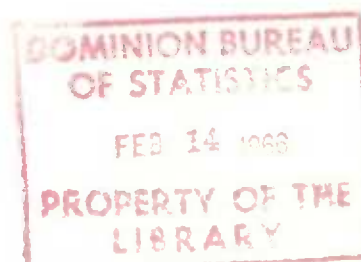
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METAL ROLLING, CASTING AND EXTRUDING, N.E.S.

1963

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Q - Quarterly

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METAL ROLLING, CASTING AND EXTRUDING, N.E.S.

1963

Data presented in this report under the heading of Metal Rolling, Casting and Extruding, N.E.S. reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its industry statistics compilations—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

For statistical purposes the industry titled Metal Rolling, Casting and Extruding, N.E.S. in the revised Standard Industrial Classification covers establishments primarily engaged in manufacturing non-ferrous metals such as zinc, tin, lead, nickel and titanium and their alloys in shapes such as bars, rods, plates, sheets and castings. In addition, this industry includes establishments primarily engaged in pressure die casting of all non-ferrous metals and their alloys and those engaged in the recovery of non-ferrous metals from scrap.

SYMBOLS

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

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

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals	73	1,848	3,821	6,867	1,105	40,871	63,576	22,508	16	78	2,731	11,742	23,872
1962													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	17	317	687	1,224	168	7,248	10,882	3,247	4	29	424	1,789	3,506
Quebec													
Ontario	44	1,411	2,950	5,494	871	35,782	52,276	16,023	8	50	2,089	9,563	16,731
Manitoba	4	82	172	305	57	1,728	3,294	1,353	—	—	120	545	1,530
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	4	23	44	78	12	498	796	221	2	9	31	104	221
British Columbia	5	75	143	337	55	1,544	3,221	1,499	—	—	106	532	1,576
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	74	1,908	3,896	7,437	1,163	46,800	70,470	22,342	14	88	2,770	12,533	23,564
1963													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	2	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	14	292	636	1,238	154	7,474	10,365	2,701	x	x	399	1,823	3,875
Ontario	45	1,584	3,329	6,297	952	39,011	59,408	19,890	7	41	2,312	10,762	21,795
Manitoba	4	96	182	342	59	2,447	3,836	1,299	—	—	131	578	1,346
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	4	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	5	80	160	364	56	1,705	2,897	1,602	—	—	112	557	1,611
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,968	29,432

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	6	6	8	13	3	35	102	63	2	10	7	17	71
\$ 10,000 to \$ 24,999.....	3	12	21	34	5	34	93	53	2	12	13	35	76
25,000 " 49,999.....	7	32	64	104	19	240	521	259	4	22	42	156	304
50,000 " 99,999.....	17	180	386	631	72	1,888	2,592	1,316	4	29	241	931	1,336
100,000 " 199,999.....	14	214	426	722	99	1,883	4,333	2,347	—	—	302	1,159	2,583
200,000 " 499,999.....	7	116	224	436	62	2,693	5,209	2,184	2	16	216	1,001	2,244
500,000 " 999,999.....	20	1,348	2,867	5,497	904	40,325	57,620	16,119	—	—	1,949	9,235	17,040
1,000,000 " 4,999,999.....													
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....													
Totals	74	1,908	3,996	7,437	1,163	46,800	70,470	22,342	14	88	2,770	12,533	22,564
1963													
Under \$10,000.....	3	3	6	9	2	11	39	26	—	—	3	9	26
\$ 10,000 to \$ 24,999.....	5	7	14	18	5	72	159	81	5	27	9	26	82
25,000 " 49,999.....	9	37	75	146	17	235	663	397	4	22	47	200	407
50,000 " 99,999.....	12	123	253	437	50	821	1,841	1,002	2	15	164	665	1,124
100,000 " 199,999.....	17	324	639	1,012	114	2,996	5,443	2,405	—	—	417	1,486	2,778
200,000 " 499,999.....	8	218	426	870	124	3,619	6,583	3,297	—	—	336	1,608	4,023
500,000 " 999,999.....	20	1,411	3,023	5,939	939	43,600	63,080	18,836	—	—	1,988	9,879	20,822
1,000,000 " 4,999,999.....													
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....													
Totals	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,968	29,432

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000.....	3	3	4	6	2	22	43	18	—	—	4	7	18
\$ 10,000 to \$ 24,999.....	8	14	19	32	16	283	421	118	8	43	20	48	129
25,000 " 49,999.....	8	51	101	172	35	735	898	310	4	29	70	254	439
50,000 " 99,999.....	9	90	197	313	35	762	1,624	828	—	—	121	498	895
100,000 " 199,999.....	16	252	516	887	111	3,489	6,376	2,628	—	—	335	1,327	2,802
200,000 " 499,999.....	15	339	735	1,260	228	11,008	14,568	3,531	2	16	481	2,058	3,706
500,000 " 999,999.....	12	776	1,601	3,038	464	16,851	26,989	9,053	—	—	1,116	5,080	9,289
1,000,000 " 4,999,999.....	3	383	822	1,730	272	13,650	19,550	5,855	—	—	623	3,261	8,389
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....													
Totals	74	1,908	3,996	7,437	1,163	46,800	70,470	22,342	14	88	2,770	12,533	22,564
1963													
Under \$10,000.....	9	12	24	32	9	126	266	124	6	32	14	37	125
\$ 10,000 to \$ 24,999.....	10	56	114	206	48	949	1,242	297	3	22	76	304	308
25,000 " 49,999.....	11	94	192	345	41	882	1,821	929	2	10	127	531	1,098
50,000 " 99,999.....	15	290	585	933	82	3,146	5,376	2,133	—	—	354	1,295	2,460
100,000 " 199,999.....	14	369	789	1,575	310	15,197	20,115	4,734	—	—	588	2,882	6,292
200,000 " 499,999.....	11	719	1,533	2,975	439	16,738	24,922	8,219	—	—	992	4,670	8,666
500,000 " 999,999.....	4	583	1,200	2,364	322	14,314	24,065	9,608	—	—	887	4,249	10,476
1,000,000 " 4,999,999.....													
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....													
Totals	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,968	29,432

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under \$10,000.....	3	3	4	6	2	22	43	18	—	—	4	7	18
\$ 10,000 to \$ 24,999.....	8	14	19	32	16	283	421	118	8	43	20	48	129
25,000 " 49,999.....	8	51	101	172	35	735	898	310	4	29	70	254	339
50,000 " 99,999.....	9	69	149	234	28	713	1,398	659	—	—	91	355	669
100,000 " 199,999.....	16	234	491	807	85	2,715	4,973	2,100	—	—	298	1,187	2,138
200,000 " 499,999.....	15	378	808	1,419	261	11,831	16,198	4,228	2	16	548	2,341	4,593
500,000 " 999,999.....	12	776	1,601	3,038	464	16,851	26,989	9,053	—	—	1,116	5,080	9,289
1,000,000 " 4,999,999.....	3	383	822	1,730	272	13,650	19,550	5,855	—	—	623	3,261	6,389
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	74	1,908	3,996	7,437	1,163	46,800	70,470	22,342	14	88	2,770	12,533	23,564
1963													
Under \$10,000.....	9	12	24	32	9	126	266	124	6	32	14	37	129
\$ 10,000 to \$ 24,999.....	10	56	114	206	48	949	1,242	297	3	22	76	304	308
25,000 " 49,999.....	8	79	162	286	31	602	1,288	667	2	10	97	381	666
50,000 " 99,999.....	16	237	488	806	82	3,253	5,421	2,102	—	—	306	1,213	2,269
100,000 " 199,999.....	14	352	719	1,311	259	11,998	16,645	4,463	—	—	514	2,228	5,025
200,000 " 499,999.....	11	771	1,645	3,268	474	18,314	25,824	7,583	—	—	1,064	5,097	8,465
500,000 " 999,999.....	8	616	1,285	2,521	348	16,111	27,121	10,808	—	—	967	4,708	12,570
5,000,000 and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,868	29,432

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Under 5 employed.....	11	15	24	39	11	187	418	220	4	22	22	73	231
5- 14 ".....	20	120	254	441	81	3,254	4,922	1,531	8	50	168	666	1,719
15- 49 ".....	28	507	1,060	1,838	314	13,680	19,935	6,054	2	16	737	3,180	6,414
50- 99 ".....	7	370	772	1,558	285	11,155	16,617	5,077	—	—	537	2,611	5,028
100-199 ".....	8	896	1,887	3,561	472	18,524	28,577	9,459	—	—	1,306	6,003	10,173
200-499 ".....													
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	74	1,908	3,996	7,437	1,163	46,800	70,470	22,342	14	88	2,770	12,533	23,564
1963													
Under 5 employed.....	12	18	36	50	15	226	501	234	6	32	24	84	246
5- 14 ".....	19	120	257	488	77	3,374	5,145	1,768	5	32	165	721	1,859
15- 49 ".....	26	519	1,084	1,881	312	14,802	21,227	6,162	—	—	724	3,167	7,700
50- 99 ".....	7	336	708	1,451	302	12,993	17,313	4,578	—	—	517	2,648	4,816
100-199 ".....	7	694	1,476	2,883	312	7,392	14,043	6,393	—	—	911	4,063	7,022
200-499 ".....	3	436	876	1,679	230	12,568	19,578	6,910	—	—	697	3,286	7,791
500 employed and over.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units.....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals.....	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,868	29,432

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	4	3	3	5	2	21	61	39	2	10	3	5	46
Partnerships	8	77	151	234	85	2,882	3,769	833	12	78	97	331	861
Incorporated companies	62	1,828	3,842	7,199	1,076	43,897	66,640	21,471	...	...	2,670	12,197	22,658
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	74	1,908	3,996	7,437	1,163	46,800	70,470	22,342	14	86	2,770	12,533	23,564
1963													
Individual ownerships	4	7	15	24	4	76	149	66	3	19	7	24	69
Partnerships	4	8	16	22	14	138	282	141	8	46	8	22	150
Incorporated companies	66	2,108	4,406	8,384	1,231	51,140	77,377	25,837	...	...	3,023	13,922	29,213
Cooperatives	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	74	2,123	4,437	8,430	1,249	51,354	77,808	26,044	11	64	3,038	13,968	29,432

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	70,470	77,808	13,404	17,198	83,874	95,006
Inventories—Goods of own manufacture:						
Add closing—Goods in process	1,597	1,532	...	...	1,597	1,532
Finished goods	5,009	6,135	...	...	5,009	6,135
Less opening—Goods in process	1,469	1,448	...	...	1,469	1,448
Finished goods	5,301	5,379	...	...	5,301	5,379
2. Net inventory change	(164)	840	...	...	(164)	840
3. Gross output (1 + 2)	70,306	78,648	13,404	17,198	83,710	95,886
Input						
4. Purchases of goods not of own manufacture .....	...	...	11,997	13,762	11,997	13,762
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	899	1,105	899	1,105
Less closing .....	...	...	1,021	1,374	1,021	1,374
5. Cost of goods sold (not of own manufacture) .....	...	...	11,875	13,493	11,875	13,493
6. Materials, supplies, components and semi-processed goods	46,800	51,354	306	316	47,106	51,670
7. Fuel and electricity	1,163	1,249	...	...	1,163	1,249
8. Gross input (5 + 6 + 7)	47,963	52,603	12,181	13,809	60,144	66,412
Census value added (3-8)	22,342	26,044	1,223	3,369	23,564	29,432

TABLE 3. Employment and Payroll, 1962 and 1963

Year and provinces	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	301	16	—	—	58	26	22	1	381	43	1,224	—	415	150	1,789
Quebec															
Ontario	1,217	194	4	—	402	139	114	19	1,737	352	5,494	13	3,181	876	9,563
Manitoba	76	6	—	—	31	7	—	—	107	13	305	—	240	—	545
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	22	1	1	—	6	1	—	—	29	2	78	1	25	—	104
British Columbia	75	—	—	—	22	5	4	—	101	5	337	—	172	22	532
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	1,691	217	5	—	519	178	140	20	2,355	415	7,437	14	4,033	1,049	12,533
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Quebec	280	12	—	—	55	20	31	1	366	33	1,238	—	396	189	1,823
Ontario	1,338	246	4	—	425	140	138	21	1,905	407	6,297	13	3,386	1,065	10,762
Manitoba	90	6	—	—	29	6	—	—	119	12	342	—	236	—	578
Saskatchewan	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia	80	—	—	—	19	7	4	2	103	9	364	—	168	25	557
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	1,852	271	4	—	536	177	174	24	2,566	472	8,430	13	4,240	1,285	13,968

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	1,466	166	1,483	213
February	1,418	175	1,514	229
March	1,444	189	1,491	234
April	1,466	198	1,524	219
May	1,477	186	1,535	235
June	1,500	193	1,530	245
July	1,435	195	1,546	241
August	1,464	190	1,570	229
September	1,488	213	1,609	255
October	1,436	211	1,623	260
November	1,464	209	1,712	273
December	1,407	210	1,652	283
Average for establishments reporting monthly detail (collected only for large establishments)	1,455	195	1,557	245
Average for small establishments (only annual averages collected)	236	22	295	26
Average for all establishments	1,691	217	1,852	271

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total Manufacturing
	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	x	x	x	x	x	x
Quebec	704	151	767	1,622	291	1,913
Ontario	4,208	1,136	3,665	9,009	676	9,685
Manitoba	256	51	286	593	3	596
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	x	x
British Columbia	735	109	616	1,459	25	1,484
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	6,059	1,448	5,379	12,886	1,105	13,991
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	x	x	x	x	x	x
Quebec	849	103	779	1,731	391	2,122
Ontario	4,888	1,244	4,002	10,134	750	10,884
Manitoba	352	32	274	658	38	696
Saskatchewan	—	—	—	—	—	—
Alberta	x	x	x	x	x	x
British Columbia	555	152	1,039	1,746	33	1,779
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	6,795	1,532	6,135	14,462	1,374	15,836

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	—	—	—
(b) Imported	"	610	601	8
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	285	221	4
Lignite coal	"	—	—	—
Coke	"	1,650	1,356	42
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	224,956	234,034	90
Fuel oil including kerosene or coal oil	"	2,434,164	2,694,667	301
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	147,776	166,765	33
(b) Other manufactured gas	M cu. ft.	117,573	700	34
(c) Natural gas	"	403,542	497,415	252
Other fuel		3	—	3
Electricity purchased	kwh.	27,672,351	25,454,591	284
Steam purchased		—	—	—
2. Estimate for small establishments:				
Fuel and electricity		106	—	114
3. All establishments:				
Total fuel and electricity used		1,163	—	1,249

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Metals (other than scrap):				
Aluminum:				
Ingots	lb. 4,361,380	1,028	5,932,107	1,363
Other forms	" 478,258	116	1,517,606	303
Antimony	" 1,280,218	269	868,502	195
Arsenic (elemental and oxide)	" 86,591	6	76,194	6
Bismuth	" 30,473	69	39,264	91
Brass and bronze, all forms	" 1,842,619	652	2,236,080	790
Cadmium	" 27,035	47	260,146	380
Copper ingots and slabs	" 519,542	162	470,465	147
Die casting alloys	" 9,065,433	1,200	9,596,930	1,296
Lead, pig:				
Pure	" 30,909,205	3,081	30,424,139	3,178
Antimonial	" 3,632,313	372	13,367,301	1,068
Magnesium	" 189,939	59	294,611	92
Manganese metal	" 34,104	12	32,147	9
Nickel	" 2,833,896	2,454	2,331,062	1,999
Silicon metal	" 684,688	127	851,756	156
Silver, fine	troy oz. 34,541	49	31,285	46
Tellurium	lb. 1,024	6	1,272	8
Tin, pig	" 4,006,597	4,958	3,885,811	4,879
Zinc slabs, bars and ingots	" 24,330,137	3,027	28,762,453	3,816
Other metals, except scrap, but including alloys	" 2,935,648	1,322	3,269,784	1,437
Scrap metals of all kinds:				
Aluminum	" 27,527,321	3,229	29,228,500	3,885
Babbitt	" 2,156,023	353	3,686,234	657
Brass and bronze	" 30,020,005	7,032	32,129,551	6,757
Copper	" 6,760,717	1,531	9,116,926	2,149
Lead	" 82,831,989	4,332	87,660,782	5,123
Magnesium	" 81,976	15	152,010	34
Soldier	" 973,334	284	1,265,173	348
Tin	" 39,073	23	190,840	143
Type metal	" 8,332,674	1,377	7,729,566	1,284
Zinc	" 4,370,939	263	3,235,981	179
Zinc dross	" 6,641,365	402	7,544,333	394
Other scrap, including scrap unspecified by kind	" 7,237,916	1,432	4,567,703	866
All other materials and components used ¹ .....	...	4,710	...	5,544
2. Containers and other packaging materials and supplies used .....	...	458	...	478
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	1,284	...	1,228
4. Amount paid out to others for work done on materials owned by establishments .....	...	1,062	...	1,027
Totals .....	...	46,800	...	51,354

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. In 1962 these estimated costs were \$1,997,507; in 1963 \$2,499,003.

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
	pounds	\$'000	pounds	\$'000
1. Products:				
Secondary non-ferrous metals (reclaimed from scrap or remelted) (all forms pig, ingot, shot, etc.):				
Aluminum	18,033,495	3,954	28,661,291	6,363
Lead, unalloyed	17,564,989	1,787	17,201,533	1,911
Tin	40,756	50	71,801	91
Zinc	10,316,839	1,299	8,050,216	1,100
Other	1,591,570	377	77,780	40
Alloys, non-ferrous (all forms, pig, ingot, shot, etc.):				
Babbitt	1,374,047	846	1,882,360	1,124
Copper-base alloys (brass, bronze, etc.)	32,969,323	10,253	35,210,910	10,937
Die casting alloy	15,940,702	2,400	18,888,406	2,956
Lead, antimonial:				
Primary (made from virgin metal)	11,512,922	1,251	4,284,469	495
Secondary (reclaimed from scrap)	34,856,817	3,804	43,899,952	5,158
Solders	13,536,672	6,058	15,979,630	6,954
Type and type metal	11,125,426	2,675	11,455,082	2,686
Other alloys	11,937,430	3,425	5,137,845	213
Castings:				
Die casting:				
Aluminum-base alloy	4,739,200	2,994	6,399,388	4,000
Zinc-base alloy	17,961,074	7,626	18,645,602	8,436
Other castings	2,634,077	1,912	5,129,837	3,380
Lead products:				
Pipe and tubing, traps and bends	2,404,143	941	3,275,741	1,015
Plate, sheet and strip	5,683,402	1,214	3,772,256	811
Wire	982,365	415	986,296	427
Other rolled, drawn or extruded lead shapes	186,249	26	698,885	237
All other products .....	...	17,087	...	18,434
2. Amount received in payment for work done on materials and products owned by others .....	...	266	...	429
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual items described above .....	...	(192)	...	(73)
Net adjustment for establishments receiving progress payments .....	...	—	...	—
Total adjusted value of shipments and work done .....	...	70,470	...	77,808

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

A. Babbitt, Solders, Type and Type Metal, 1954-63

Year	Babbitt metal		Solders of all kinds		Type and type metal	
	Quantity	Selling value at plant	Quantity	Selling value at plant	Quantity	Selling value at plant
	'000 lbs.	\$'000	'000 lbs.	\$'000	'000 lbs.	\$'000
1954	2,036	905	10,356	4,592	8,149	1,734
1955	2,848	1,207	12,814	5,764	7,794	1,897
1956	2,963	1,194	12,937	6,086	9,975	2,614
1957	2,176	1,047	11,994	5,890	8,086	2,698
1958	1,595	764	11,435	5,033	6,918	2,378
1959	1,232	702	11,700	5,151	11,141	2,959
1960	1,941	967	11,926	5,386	10,621	2,653
1961	1,509	824	9,515	4,804	11,376	2,794
1962	1,455	913	13,555	6,065	11,125	2,675
1963	1,972	1,178	15,996	6,957	11,455	2,686

B. Die Castings,¹ 1958-63

Year	Aluminum base		Zinc base	
	Quantity	Value	Quantity	Value
	'000 lbs.	\$'000	'000 lbs.	\$'000
1958	2,560	1,645	16,561	7,343
1959	3,749	2,442	17,066	7,702
1960	3,918	2,699	16,606	7,419
1961	3,737	2,651	17,913	9,099
1962	8,098	5,302	22,249	10,146
1963	10,128	6,086	23,183	11,590

¹ Reported for sale as such. Does not include castings produced for own use or castings reported under other commodity headings such as hardware, parts, etc.

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
New Brunswick:	
Levine, Abe, and Sons Ltd.	Barkers Point, Fredericton
Pope Limited, A.O.	90 Winter St., Saint John
Quebec:	
Canada Metal Co. Ltd., The	6265 Notre Dame St. E., Montreal
Eagle Smelting and Refining Works Ltd.	1095 Smith St., Montreal 3
Eastern Die Castings Inc.	2020 Thimens, St-Laurent
Federated Metals (Canada) Ltd.	1400 Norman St., Lachine
Hericon Metals and Plastics Inc.	3815 Ruskin St., Ville St-Michel
Kay Lead and Alloys Co.	7929 Dante Ave., Ville St-Michel
Latulippe, Charles	519 rue Silvain, Notre-Dame de Sacré-Coeur
Lyster Die Casting Ltd.	Lyster St., Megantic
Metals and Alloys Ltd.	1611 Bercy St Montreal
Richler Metal Co.	10,244 Balzac St. Montreal North
Richmond Machine Tool and Die Casting Co. Ltd.	5680 Fullum St., Montreal
Riverside Smelting and Refining Works Ltd.	639 Farm St., Montreal
Standard Metal Co. Inc.	269 Prince St., Montreal 3
Wall Colmonoy (Canada) Ltd.	2997 Broadway St., Montreal
Ontario:	
Ace Castings	51 Amiens Rd., Scarborough
Armaltie Co. Ltd.	907 Oxford St., Toronto 18
Atlas Titanium Ltd.	Browleigh Ave., Welland
Barber Die Casting Co. Ltd.	Hillyard St., Hamilton
Bernard (Canada) Ltd., H.	464 Queen St. E., Toronto 2 B
Binkley Die Castings Ltd.	175 Samuelson St., Galt
Canada Metal Co. Ltd., The	721 Eastern Ave., Toronto
Canadian Hanson and Van Winkle Co. Ltd.	25 Morrow Ave., Toronto 3
Canadian Magnesium Products Ltd.	225 Concession Rd., Preston
Cohen and Co. Ltd., I.	594 Montreal St., Kingston
Cramco Alloy Sales	80 Sinnott Rd., Scarborough
Deloro Stellite - Division of Deloro Smelting and Refining Co. Ltd.	371 Dundas St. E., Belleville
Die Casters Co. Ltd.	45 Colville Rd., Toronto 15
Dominion Die Casting Ltd.	Libby St., Wallaceburg
Dominion and Monarch Type Ltd.	34 Mercer St., Toronto 2 B
Dundas Die Casters Ltd.	James St., Dundas
E and S Quality Products	# 3 Highway, Cottam
Federated Metals (Canada) Ltd.	1110 Birchmount Rd., Scarborough
Gamma Foundry Co. Ltd.	313 Enfort Rd., Richmond Hill
General Smelting Company of Canada Ltd.	Wilcox St., Hamilton
Grenville Castings Ltd.	Merrickville
Haley Industries Ltd.	Haley
Hewitt Metals Corporation Ltd.	1554 McDougall Ave., Windsor
Ingot Metal Co. Ltd., The	12 Vansco Rd., Etobicoke
International Precision Casting Co. Ltd.	471 Dundas St. East, Belleville
J and K Zinc Die Casting Co. Ltd.	48 Crockford Blvd., Scarborough
Kaufman Ltd., M.B.	28 Bathurst St., Toronto
Kester Solder Company of Canada Ltd.	1 Prince Charles Rd., Brantford
Lakeshore Die Castings Ltd.	482 Queen Elizabeth Way, Oakville
Last Minute Manufacturing Co. Ltd.	100 Wellington St. N., Thorold
McKay Smelters Ltd.	20 Charlevoix St., Ottawa 2
Mendler Mfg. Co.	Malden & Hudson Sts., Sandwich West
Metals and Alloys Ltd.	205 Wicksteed Ave., Leaside
Moore Type Foundry Ltd.	431 King St. W., Toronto 2 B
Pressure Castings of Canada Ltd.	177 Weston Rd., York
Prince and Smith Type Foundry Ltd.	113 St Patrick St., Toronto 2 B
Ram Refined Alloys Ltd.	167 Barton St. W., Hamilton
Schultz Die Casting Co. of Canada Ltd.	77 St. David St., Lindsay
Standard Metal Co.	RR# 1 Markham
Tonoili Co. of Canada Ltd.	2414 Dixie Rd., Port Credit
Uxbridge Foundry	283 King St. W., Toronto 2 B
Wagman and Son Ltd., Z.	190 Edwin Ave., Toronto 9
White Die Casting Co., Ltd.	354 McNab St., Dundas
Wilcon Products	5 Lea Ave., Toronto 17
WMD Pressure Castings Ltd.	305 Berlin Ave., Toronto 18
Manitoba:	
Bay Bronze (1962) Ltd.	1520 Wall St., Winnipeg
Canada Metal Co. Ltd., The	1221 St. James St., Winnipeg 21
Diecast Products Ltd.	1085 Winnipeg Ave., Winnipeg
Metals and Alloys Ltd.	255 Hamelin St., Fort Garry
Alberta:	
Canada Metal Co. Ltd., The	5524 - 4th St. S.E., Calgary
Cascade Machine Co.	3617 Blackburn Rd., Calgary
Roan-B Lead Shot Industries	2916 - 11th Ave. N.W., Calgary
Siren Mfg. Co. Ltd.	3436 - 15th St. S.E., Calgary
British Columbia:	
Canada Metal Co. Ltd., The	1428 Granville St. Vancouver
Canadian Lead and Alloys Ltd.	2345 Douglas Road, North Burnaby
General Metals Industries	8726 Barnard St., Vancouver 14
Macro-Division of Kennametal Inc.	Kingsway Ave., Port Coquitlam
Stuart Die Casting Co. Ltd.	1270 Boundary Rd., Vancouver 6

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 DRS publication Catalogue No. 61-202, "Survey of Production".

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