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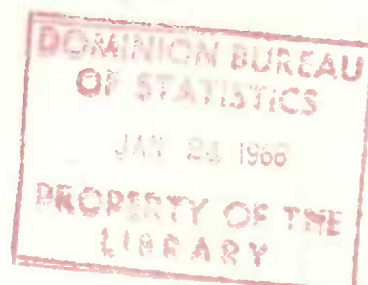
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ANNUAL



# ALUMINUM ROLLING, CASTING AND EXTRUDING 1963

ANNUAL CENSUS  
OF MANUFACTURES



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## ALUMINUM ROLLING, CASTING AND EXTRUDING 1963

Data presented in this report under the heading of Aluminum Rolling, Casting and Extruding 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 compilations of industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

For statistical purposes the industry titled Aluminum Rolling, Casting and Extruding in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing aluminum shapes, such as bars, rods, plates, sheets and castings. Pressure die casting of aluminum is included in the Metal Rolling, Casting and Extruding, n.e.s. industry and the extraction of aluminum from the ore is classified to the Smelting and Refining industry.

### 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 .....	43	3,738	7,921	16,324	2,090	76,751	110,456	34,106	4	15	5,095	23,403	34,052
1962													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	12	836	1,800	3,262	611	36,189	44,947	8,944	x	x	1,271	5,401	8,746
Ontario .....	22	2,708	5,608	12,240	1,490	52,847	70,527	14,545	x	x	3,588	17,271	14,629
Manitoba .....	1	58	100	166	10	364	713	345	—	—	72	216	343
Saskatchewan .....	—												
Alberta .....	2												
British Columbia .....	5	139	285	664	104	3,793	5,726	1,589	—	—	187	917	1,636
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	42	3,741	7,794	16,331	2,215	93,193	121,912	25,424	11	62	5,118	23,805	25,354
1963													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	12	788	1,789	3,422	610	37,201	47,211	9,412	3	9	1,207	6,029	9,349
Ontario .....	24	2,857	5,850	12,990	1,769	55,354	75,179	20,851	6	29	3,739	18,123	20,805
Manitoba .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	3	15	30	53	3	101	184	81	—	—	21	74	80
British Columbia .....	5	148	288	717	110	5,050	6,701	1,557	—	—	197	997	1,571
Yukon and Northwest Terri- tories .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	44	3,808	7,957	17,182	2,491	97,706	129,275	31,901	9	38	5,164	25,223	31,806



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	
<b>1962</b>													
Under \$10,000.....	3	1	2	2	2	7	19	14	1	4	2	5	14
\$ 10,000 to \$ 24,999.....	5	3	4	6	3	20	64	41	5	13	4	9	41
25,000 " 49,999.....	3	9	22	37	2	56	135	79	2	10	11	46	79
50,000 " 99,999.....	3	16	34	55	5	121	230	111	—	—	21	69	110
100,000 " 199,999.....	8	103	200	399	36	517	1,334	787	1	6	119	488	856
200,000 " 499,999.....	7	234	410	623	37	748	2,280	1,510	2	30	278	851	1,510
500,000 " 999,999.....	3	155	339	551	51	794	1,930	1,074	—	—	194	783	1,077
1,000,000 " 4,999,999.....	3	290	535	1,207	192	5,347	7,534	1,887	—	—	396	1,784	1,859
5,000,000 and over.....	7	2,930	6,248	13,451	1,889	85,583	108,386	19,921	—	—	4,093	19,771	19,807
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>42</b>	<b>3,741</b>	<b>7,794</b>	<b>18,331</b>	<b>2,215</b>	<b>93,193</b>	<b>121,912</b>	<b>25,424</b>	<b>11</b>	<b>62</b>	<b>5,118</b>	<b>23,805</b>	<b>25,354</b>
<b>1963</b>													
Under \$10,000.....	7	4	8	10	4	37	98	57	6	22	5	13	57
\$ 10,000 to \$ 24,999.....	3	16	31	47	3	26	113	90	—	—	19	55	90
25,000 " 49,999.....	6	26	52	99	7	233	409	167	2	10	37	149	172
50,000 " 99,999.....	8	99	204	348	27	600	1,334	718	1	6	121	474	707
100,000 " 199,999.....	5	108	216	343	20	649	1,445	674	—	—	149	474	673
200,000 " 499,999.....	5	216	502	781	78	1,497	3,141	1,583	—	—	261	1,054	1,571
500,000 " 999,999.....	3	324	552	1,193	183	5,094	8,102	2,873	—	—	403	1,655	2,842
1,000,000 " 4,999,999.....	7	3,015	6,391	14,360	2,170	89,571	114,634	25,738	—	—	4,169	21,350	25,694
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>44</b>	<b>3,808</b>	<b>7,957</b>	<b>17,182</b>	<b>2,491</b>	<b>97,706</b>	<b>129,275</b>	<b>31,901</b>	<b>9</b>	<b>38</b>	<b>5,164</b>	<b>25,223</b>	<b>31,806</b>

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	
<b>1962</b>													
Under \$10,000.....	9	7	12	21	5	52	132	79	8	27	9	26	79
\$ 10,000 to \$ 24,999.....	5	22	50	79	6	152	316	165	—	—	29	102	165
25,000 " 49,999.....	4	42	95	189	16	274	600	312	1	6	46	207	312
50,000 " 99,999.....	8	151	273	488	33	590	1,695	1,084	2	30	182	636	1,152
100,000 " 199,999.....	6	299	581	896	73	1,195	3,249	1,976	—	—	363	1,279	1,980
200,000 " 499,999.....	4	405	781	1,857	192	23,595	26,551	2,828	—	—	548	2,692	2,801
500,000 " 999,999.....	6	2,815	6,002	12,801	1,889	67,335	89,369	18,980	—	—	3,941	18,862	18,866
1,000,000 " 4,999,999.....	...	...	...	...	...	...	...	...	...	...	...	...	...
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>42</b>	<b>3,741</b>	<b>7,794</b>	<b>18,331</b>	<b>2,215</b>	<b>93,193</b>	<b>121,912</b>	<b>25,424</b>	<b>11</b>	<b>62</b>	<b>5,118</b>	<b>23,805</b>	<b>25,354</b>
<b>1963</b>													
Under \$10,000.....	7	17	34	62	9	327	492	51	3	10	44	115	56
\$ 10,000 to \$ 24,999.....	4	5	10	18	3	43	101	55	5	22	5	18	55
25,000 " 49,999.....	7	38	75	134	9	249	517	282	—	—	49	175	260
50,000 " 99,999.....	5	50	106	197	17	345	770	409	1	6	63	272	395
100,000 " 199,999.....	6	110	225	335	27	783	1,623	837	—	—	134	458	837
200,000 " 499,999.....	5	249	563	884	73	1,295	3,037	1,675	—	—	297	1,180	1,667
500,000 " 999,999.....	...	...	...	...	...	...	...	...	...	...	...	...	...
1,000,000 " 4,999,999.....	10	3,339	6,944	15,553	2,353	94,685	122,736	28,611	—	—	4,572	23,006	31,543
5,000,000 and over.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units.....	...	...	...	...	...	...	...	...	...	...	...	...	...
<b>Totals</b> .....	<b>44</b>	<b>3,808</b>	<b>7,957</b>	<b>17,182</b>	<b>2,491</b>	<b>97,706</b>	<b>129,275</b>	<b>31,901</b>	<b>9</b>	<b>38</b>	<b>5,164</b>	<b>25,223</b>	<b>31,806</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.....	9	7	12	21	5	52	132	79	8	27	9	26	79
\$ 10,000 to \$ 24,999.....	5	22	50	79	6	152	316	165	—	—	29	102	165
25,000 " 49,999.....	4	42	95	189	16	274	600	312	1	6	46	207	312
50,000 " 99,999.....	8	151	273	488	33	590	1,695	1,084	2	30	182	636	1,152
100,000 " 199,999.....	6	299	581	896	73	1,195	3,249	1,976	—	—	363	1,279	1,980
200,000 " 499,999.....	4	405	781	1,857	192	23,595	26,551	2,828	—	—	548	2,692	2,801
500,000 " 999,999.....	6	2,815	6,002	12,801	1,889	67,335	89,369	18,980	—	—	3,941	18,862	18,866
1,000,000 " 4,999,999.....													
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....													
<b>Totals .....</b>	<b>42</b>	<b>3,741</b>	<b>7,794</b>	<b>16,331</b>	<b>2,215</b>	<b>93,193</b>	<b>121,912</b>	<b>25,424</b>	<b>11</b>	<b>62</b>	<b>5,118</b>	<b>23,805</b>	<b>25,354</b>
<b>1963</b>													
Under \$10,000.....	6	15	30	56	8	274	430	42	3	10	41	102	40
\$ 10,000 to \$ 24,999.....	5	7	14	24	3	95	164	65	5	22	8	31	71
25,000 " 49,999.....	8	42	83	149	12	309	635	317	—	—	56	209	302
50,000 " 99,999.....	4	46	98	182	14	285	651	354	1	6	56	237	353
100,000 " 199,999.....	6	110	225	335	27	783	1,623	837	—	—	134	458	837
200,000 " 499,999.....	5	249	563	884	73	1,295	3,037	1,675	—	—	297	1,180	1,667
500,000 " 999,999.....	3	293	619	1,489	106	25,452	28,111	2,583	—	—	364	2,015	2,558
1,000,000 " 4,999,999.....	7	3,046	6,325	14,063	2,247	69,213	94,625	26,029	—	—	4,208	20,991	25,979
5,000,000 and over.....													
Head offices, sales offices and auxiliary units.....													
<b>Totals .....</b>	<b>44</b>	<b>3,808</b>	<b>7,957</b>	<b>17,182</b>	<b>2,491</b>	<b>97,706</b>	<b>129,275</b>	<b>31,901</b>	<b>9</b>	<b>38</b>	<b>5,164</b>	<b>25,223</b>	<b>31,806</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.....	10	10	22	34	6	58	170	109	6	17	14	47	109
5- 14 ".....	8	51	109	210	20	387	845	450	3	16	61	246	513
15- 49 ".....	10	222	449	731	52	825	2,608	1,743	2	30	272	994	1,748
50- 99 ".....	5	299	564	952	78	2,432	4,305	1,847	—	—	373	1,328	1,843
100-199 ".....	4	456	875	2,143	266	25,772	29,863	3,590	—	—	610	3,085	3,554
200-499 ".....	5	2,703	5,775	12,262	1,793	63,720	84,121	17,685	—	—	3,788	18,105	17,587
500 employed and over.....													
Head offices, sales offices and auxiliary units.....													
<b>Totals .....</b>	<b>42</b>	<b>3,741</b>	<b>7,794</b>	<b>16,331</b>	<b>2,215</b>	<b>93,193</b>	<b>121,912</b>	<b>25,424</b>	<b>11</b>	<b>62</b>	<b>5,118</b>	<b>23,805</b>	<b>25,354</b>
<b>1963</b>													
Under 5 employed.....	9	9	18	26	5	100	203	100	6	22	12	40	106
5- 14 ".....	11	65	129	236	19	515	1,000	469	3	16	85	317	453
15- 49 ".....	10	178	393	647	55	1,322	2,799	1,339	—	—	238	877	1,334
50- 99 ".....	5	263	583	939	76	2,687	4,799	2,054	—	—	321	1,304	2,038
100-199 ".....	3	367	741	1,871	192	28,745	32,088	3,190	—	—	460	2,533	3,191
200-499 ".....	6	2,926	6,093	13,461	2,145	64,338	88,385	24,749	—	—	4,048	20,152	24,683
500 employed and over.....													
Head offices, sales offices and auxiliary units.....													
<b>Totals .....</b>	<b>44</b>	<b>3,808</b>	<b>7,957</b>	<b>17,182</b>	<b>2,491</b>	<b>97,706</b>	<b>129,275</b>	<b>31,901</b>	<b>9</b>	<b>38</b>	<b>5,164</b>	<b>25,223</b>	<b>31,806</b>

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

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1962													
Individual ownerships .....	5	13	25	47	11	95	212	108	5	19	13	47	108
Partnerships .....	3	18	31	60	3	105	272	167	6	44	19	62	167
Incorporated companies .....	34	3,710	7,738	16,225	2,201	92,993	121,427	25,149	—	—	5,086	23,696	25,079
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals .....</b>	<b>42</b>	<b>3,741</b>	<b>7,794</b>	<b>16,331</b>	<b>2,215</b>	<b>93,193</b>	<b>121,912</b>	<b>25,424</b>	<b>11</b>	<b>62</b>	<b>5,118</b>	<b>23,805</b>	<b>25,354</b>
1963													
Individual ownerships .....	8	18	36	65	7	131	291	152	9	38	19	68	152
Partnerships .....	36	3,790	7,921	17,117	2,484	97,576	128,985	31,748	—	—	5,145	25,155	31,654
Incorporated companies .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Cooperatives .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Totals .....</b>	<b>44</b>	<b>3,808</b>	<b>7,957</b>	<b>17,182</b>	<b>2,491</b>	<b>97,706</b>	<b>129,275</b>	<b>31,901</b>	<b>9</b>	<b>38</b>	<b>5,164</b>	<b>25,223</b>	<b>31,806</b>

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 .....	121,912	129,275	900	527	122,812	129,802
Inventories—Goods of own manufacture:						
Add closing—Goods in process .....	4,370	5,595	...	...	4,370	5,595
Finished goods .....	5,940	7,633	...	...	5,940	7,633
Less opening—Goods in process .....	4,314	4,322	...	...	4,314	4,322
Finished goods .....	7,077	6,084	...	...	7,077	6,084
2. Net inventory change .....	(1,081)	2,822	...	...	(1,081)	2,822
3. Gross output (1 + 2) .....	120,831	132,097	900	527	121,731	132,624
Input						
4. Purchases of goods not of own manufacture .....	...	...	331	463	331	463
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	256	58	256	58
Less closing .....	...	...	82	193	82	193
5. Cost of goods sold (not of own manufacture) .....	...	...	505	328	505	328
6. Materials, supplies, components and semi-processed goods .....	93,193	97,706	466	293	93,659	97,999
7. Fuel and electricity .....	2,215	2,491	...	...	2,215	2,491
8. Gross input (5 + 6 + 7) .....	95,408	100,197	971	621	96,379	100,818
<b>Census value added (3-8) .....</b>	<b>25,424</b>	<b>31,901</b>	<b>(71)</b>	<b>(94)</b>	<b>25,354</b>	<b>31,806</b>



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- istrative and office	Sales and distribution	Total salaries and wages
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
1962	number										\$'000				
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	797	39	—	—	274	82	53	26	1,124	147	3,262	—	1,804	334	5,401
Ontario .....	2,580	128	—	—	627	198	42	13	3,249	339	12,240	—	4,776	256	17,271
Manitoba .....	58	—	—	—	12	1	1	—	71	1	165	—	45	6	216
Saskatchewan .....															
Alberta .....															
British Columbia .....	138	1	—	—	36	12	—	—	174	13	664	—	253	—	917
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	3,573	168	—	—	949	293	96	39	4,618	500	16,331	—	6,878	596	23,805
1963															
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	757	31	—	—	264	63	60	32	1,081	126	3,422	—	2,063	544	6,029
Ontario .....	2,694	163	—	—	632	200	33	17	3,359	380	12,990	—	4,910	224	18,123
Manitoba .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	15	—	—	—	4	2	—	—	19	2	53	—	21	—	74
British Columbia .....	147	1	—	—	37	12	—	—	184	13	717	—	280	—	997
Yukon and Northwest Territories .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	3,613	195	—	—	937	277	93	49	4,643	521	17,182	—	7,273	768	25,223

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 .....	2,995	126	3,233	192
February .....	3,013	129	3,289	189
March .....	3,246	139	3,244	198
April .....	3,285	149	3,307	177
May .....	3,347	163	3,421	164
June .....	3,504	164	3,543	173
July .....	3,658	137	3,595	173
August .....	3,485	130	3,639	166
September .....	3,477	132	3,622	176
October .....	3,415	131	3,505	173
November .....	3,368	129	3,427	168
December .....	3,155	159	3,373	172
Average for establishments reporting monthly detail (collected only for large establishments) .....	3,331	140	3,434	177
Average for small establishments (only annual averages collected) .....	242	28	179	18
Average for all establishments .....	3,573	168	3,613	195

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 .....	1,477	2,273	1,699	5,448	—	5,448
Ontario .....	9,406	2,015	4,068	15,489	33	15,521
Manitoba .....	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	—	—	12	12	—	12
British Columbia .....	632	34	305	972	26	997
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	11,516	4,322	6,084	21,921	58	21,979
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	—	—	—	—	—	—
New Brunswick .....	—	—	—	—	—	—
Quebec .....	1,860	2,088	1,895	5,844	—	5,844
Ontario .....	7,860	3,456	5,422	16,737	172	16,909
Manitoba .....	—	—	—	—	—	—
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	24	—	12	36	—	36
British Columbia .....	640	51	303	994	21	1,015
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	10,383	5,595	7,633	23,611	193	23,804

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	—
(b) Imported .....	"	2,910	—	—
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	—	—	—
Lignite coal .....	"	—	—	—
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) ..	Imp. gal.	77,712	101,147	30
Fuel oil including kerosene or coal oil .....	"	7,429,097	7,090,435	821
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	394,692	299,446	42
(b) Other manufactured gas .....	M cu. ft.	—	—	—
(c) Natural gas .....	"	244,969	302,416	304
Other fuel .....	—	—	—	—
Electricity purchased .....	kwh.	158,416,622	177,402,276	1,258
Steam purchased .....	—	—	—	—
2. Estimate for small establishments:				
Fuel and electricity .....	—	53	—	36
3. All establishments:				
Total fuel and electricity used .....	—	2,215	—	2,491

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

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
1. Materials used:				
Aluminum:				
Ingots (includes wire bar and re-roll sheet stock)	308,551,697	77,942	321,105,340	81,047
Scrap	7,906,725	1,600	17,837,218	3,405
Sheets and strip	3,351,335	1,671	3,400,127	1,695
Other	180,942	63	2,480,197	930
Brass and bronze	29,092	11	42,100	17
Copper	347,531	106	413,968	131
Magnesium	1,442,305	529	1,131,262	370
Zinc	95,085	14	59,234	8
Other non-ferrous metals	...	188	...	902
Stainless steel	...	189	...	8
Steel (except alloy steel):				
Plates, sheets and strip	...	4	...	6
Other forms	...	2,330	...	154
All other materials and components used <sup>1</sup>	...	3,799	...	3,474
2. Containers and other packaging materials and supplies used	...	1,146	...	1,220
3. Operating, maintenance and repair supplies used (excluding fuel)	...	3,237	...	3,797
4. Amount paid out to others for work done on materials owned by establishments	...	363	...	540
<b>Totals</b>	...	<b>93,193</b>	...	<b>97,706</b>

<sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated cost were \$1,039,000 in 1962 and \$901,023 in 1963.

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

Description	1962		1963	
	Quantity	Value	Quantity	Value
	lbs.	\$'000	lbs.	\$'000
1. Products:				
Castings, aluminum (except die castings)	6,272,274	5,004	7,502,597	5,140
Castings, other (brass, bronze magnesium, etc.) (except die castings)	839,550	1,027	818,224	1,070
Extruded shapes, aluminum	49,706,329	24,243	54,387,493	25,578
Foil, aluminum	28,912,615	15,010	31,470,048	16,423
All other products	...	76,411	...	80,808
2. Amount received in payment for work done on materials and products owned by others	...	358	...	275
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	...	(142)	...	(19)
Net adjustment for establishments receiving progress payments	...	...	...	...
<b>Total adjusted value of shipments and work done</b>	...	<b>121,912</b>	...	<b>129,276</b>

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1959 to 1963

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

A. Aluminum Castings and Aluminum Die Castings

Year	Aluminum castings <sup>1</sup>		Aluminum die castings <sup>1</sup>	
	Quantity	Value	Quantity	Value
	lbs.	\$'000	lbs.	\$'000
1959	9,209,000	7,047	3,749,000	2,442
1960	9,349,000	7,086	3,918,000	2,699
1961	8,762,000	7,063	3,737,000	2,651
1962	9,111,000	7,974	8,098,000	5,302
1963	10,674,000	7,996	10,128,000	6,086

See footnote at end of table.

**TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries 1959 to 1963 - Concluded**  
**B. Specified Aluminum Products**

Year	Extruded shapes		Aluminum foil
	Quantity	Value	Value
	lbs.	\$'000	
1959	41,857,477	21,871	11,277
1960	35,668,877	18,847	13,226
1961	43,003,769	21,958	13,392
1962	51,578,329	25,156	15,010
1963	58,795,741	27,108	16,423

<sup>1</sup> 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
<b>Quebec:</b>	
Aluminum Co. of Canada Limited	Arvida
Cenal Foundry Ltd.	St. Rémi
Cercast Inc.	3905 Industrial Blvd., Montreal N.
Custom-Alre Aluminum Limited	114 Labrosse Blvd., Pointe-Claire
Decelles, Georges	3545, 53rd Ave., Pointe-aux-Trembles
Fonderie Laliberté, Enr.	742, rue Fleurie, Québec 2
Gard, Léonard	775 Eastern St., Waterloo
Modern Aluminum Products Co.	1520 Notre-Dame St., Montreal 3
Precision Mastercrafts Ltd.	10206 Armand Lavergne St., Montreal N.
Reynolds Aluminum Co. of Canada Ltd.	Cap-de-la-Madeleine
Reynolds Extrusion Sales Co. Ltd.	P.O. Box 157, Ste-Thérèse-de-Blainville
Supreme Precision Castings Ltd.	550 Montée de Liesse Rd., Montreal
<b>Ontario:</b>	
Alumaloy Castings Limited	483 Eastern Ave., Toronto
Aluminum Co. of Canada Limited	15 Browns Line, Toronto 14
Aluminum Co. of Canada Limited	Princess St., Kingston
Aluminum Star Products	175 College St. W., Belleville
Canada Foils Limited	1891 Eglinton Ave. E., Toronto 16
Canadian Mouldings Ltd.	400 Lacroix St., Chatham
City Foundry Co.	P.O. Box 21, Windsor
Coles, J., Aluminum Foundry	114 Sinnott Rd., Scarborough
Custom-Alre Aluminum Limited	61 Arrow Rd., Weston
Custom Aluminum Foundry	54 Guelph St., Hespeler
Drummond, T.A., Metal Products Ltd.	1952 Mattawa Ave., Cooksville
Dunbar Aluminum Foundry Ltd.	315 Breithaupt St., Kitchener
Fulton Aluminum Foundry	77 Fulton St., Brantford
Harrington Aluminum Foundry Ltd.	145 Main St., Woodstock
Industrial Fine Castings Ltd.	272 Geary Ave., Toronto 4
Precision Castings Ltd.	156 St. Helens Ave., Toronto 4
Queen East Foundry	96 Gould St., Toronto 2
Ramsden Manufacturing Ltd.	130 Oakland Ave., London
Regal Die Casting Co. Ltd.	107 Kennedy Rd., Brampton
Reynolds Extrusion Co. Ltd.	1155 SImcoe St. S., Oshawa
Reynolds Extrusion Co. Ltd.	5 Crockford Blvd., Scarborough
Robertson, Joseph, Foundries Ltd.	32 Milford Ave., Toronto
Supreme Castings and Mfg. Co.	14 Racine Rd., Rexdale O.
Wallaceburg Aluminum Extrusions Ltd.	905 James St., Wallaceburg
<b>Alberta:</b>	
Albronz Foundry Ltd.	5325-1A St. S.W., Calgary
American Brass and Aluminum Foundry Ltd.	12520-123 St., Edmonton
Custom-Alre Aluminum Ltd.	3606 Bonnybrook Rd., Calgary
<b>British Columbia:</b>	
Aluminum Co. of Canada Limited	120 Vulcan Way, Richmond
Bird Aluminum Foundry Ltd.	396 East 1st Avenue, Vancouver 12
Globe Foundry Ltd.	7647 Willard St., New Westminster
Northrop Architectural Systems Ltd.	1421 East Pender St., Vancouver 6
Pacific Aluminum Foundry Ltd.	1236 E. Pender St., 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 DBS publication Catalogue No. 61-202, "Survey of Production".







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