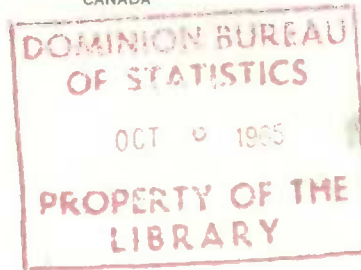


CATALOGUE No.

47-204

ANNUAL

C.3



SPORTING GOODS AND TOY INDUSTRY

1962

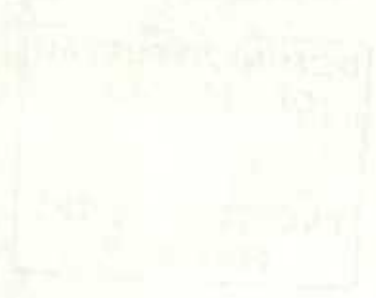
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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

SPORTING GOODS AND TOY INDUSTRY

1962

GENERAL INTRODUCTION

This industrial sub-group comprises the following two industries:

- (a) The Sporting Goods Industry and
- (b) The Toys and Games Industry.

There is some overlap in terms of the commodities made by the establishments classified to these two industries. The Standard Commodity Classification includes most of the products of the combined industries in one major group entitled "Recreation Equipment, Toys, Games, Sporting and Athletic Goods, n.e.s." and having six sub-groups as follows:

- A. Amusement, park and playground equipment
- B. Sporting equipment (except uniforms and footwear)

C. Fishing and hunting equipment (except firearms and ammunition)

D. Games (except amusement, park and playground games)

E. Toys

F. Children's vehicles

For the purposes of classifying establishments, sub-groups A, B, and C are regarded as comprising the commodities of the Sporting Goods Industry; whereas those of the Toys and Games Industry are found in sub-groups D, E, and F.

Since capital and repair expenditures are now available for this sub-group as a whole, such data are given in Table 1 below.

TABLE 1. Capital and Repair Expenditures, 1960-62

Year	Capital expenditures			Repair expenditures			Total capital and repair expenditures		
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Total
	\$'000								
1960	246	1,734	1,980	239	582	821	485	2,416	2,901
1961	247	1,501	1,748	182	633	815	429	2,134	2,563
1962	184	1,744	1,928	209	630	839	393	2,374	2,767

Source: Business Finance Division. - DBS.

SECTION 1. SPORTING GOODS INDUSTRY, 1962

In terms of the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in manufacturing sporting and athletic goods, such as bicycles, fishing tackle, golf and tennis equipment; baseball, football and boxing equipment, skates and equipment for other sports".

For the 1962 survey, a change was made to the total activity approach as fully outlined in the Explanatory Notes contained at the end of this report. These total data were also collected in the 1961 survey, but were not published at that time. Many tables in this section of the report reflect this increase in activity coverage, presenting both 1961 and 1962 figures.

Table 1 presents the manufacturing activity principal statistics for the years 1957 to 1961, inclusive, whereas Table 1 A shows most of the same statistics

for 1961 and 1962. The differences between the 1961 value of shipments and value added figures, shown in both tables, are due to amending information received after the completion of the 1961 survey.

Since no detailed information is collected on manufacturing materials and supplies used by this industry, Table 4 presents these data with a minimum of breakdown. The shipments of goods of own manufacture by the industry, given in Table 6, have been abridged in presentation. This has been done in order that the shipments of sporting good commodities by all industries might be shown in as much detail as possible in Table 8.

A list of the establishments classified to this industry in the 1962 survey will be found at the end of this section of the report.

TABLE 1. Principal Statistics - Manufacturing Activity,¹ 1957 - 61
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year	Establishments	Employees						Cost of fuel and electricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴
		Production and related workers ⁴		Administrative and office employees ³		Total ⁴					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000				\$'000		
1957	100	2,187	5,977	603	2,347	2,790	8,323	334	9,389	24,337	..
1958	104	2,242	6,134	662	2,883	2,904	9,017	350	10,581	27,503	18,547
1959	103	2,591	7,796	727	3,399	3,318	11,194	393	12,797	35,460	23,558
1960	107	2,710	9,012	741	3,344	3,451	12,357	417	16,891	37,642	20,793
1961	107	2,756	9,440	684	3,297	3,440	12,737	443	19,641	43,281	24,394

See footnotes following Table 3 A.

TABLE 1 A. Principal Statistics - Manufacturing Activity and Total Activity,¹ 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
1961	No.		'000			\$'000			\$'000		\$'000		
Quebec	30	804	1,692	1,931	113	2,894	6,575	3,579	15	64	1,087	3,286	3,601
Ontario	57	1,886	3,935	7,345	317	16,423	36,682	21,092	24	97	2,810	11,111	27,549
Manitoba	2	8	114	16	1	37	108	72	1	2	43	314	83
Saskatchewan	1												
Alberta	1												
British Columbia	16	52	104	148	12	287	688	409	6	16	102	346	489
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	178	4,042	15,057	31,722
1962													
Newfoundland	1	840	1,866	2,135	107	3,505	8,145	4,623	13	47	1,104	3,400	4,633
Quebec	34												
Ontario	55												
Manitoba	2	17	15	21	1	38	110	70	1	1	79	513	70
Saskatchewan	1												
Alberta	1												
British Columbia	18	43	117	161	15	343	851	490	6	21	115	426	592
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See Table 2 and footnotes following Table 3 A.

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1961													
Under \$10,000	18	4	7	8	2	21	81	56	16	33	7	12	58
\$ 10,000 to \$ 24,999	16	27	56	67	5	110	287	177	8	30	38	95	191
25,000 " 49,999	15	53	106	115	8	169	536	356	12	74	67	147	365
50,000 " 99,999	17	123	258	306	29	521	1,176	683	7	29	165	421	690
100,000 " 199,999	13	166	356	474	29	831	1,901	1,018	3	12	237	735	1,078
200,000 " 499,999	14	401	839	1,073	47	2,337	4,627	2,258	-	-	574	1,744	2,420
500,000 " 999,999	6	328	684	1,038	59	1,797	4,003	2,126	-	-	410	1,494	2,411
1,000,000 " 4,999,999	8	1,648	3,439	6,359	263	13,854	31,442	18,477	-	-	2,344	9,236	24,509
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	200	1,174	...
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	176	4,042	15,057	31,722
1962													
Under \$10,000	19	8	14	19	3	27	97	66	13	24	12	23	68
\$ 10,000 to \$ 24,999	15	18	35	47	5	102	283	181	13	53	28	78	187
25,000 " 49,999	15	45	89	110	10	172	548	362	7	28	59	153	369
50,000 " 99,999	20	110	237	301	19	586	1,396	785	5	20	148	437	819
100,000 " 199,999	16	233	486	636	35	986	2,358	1,346	3	31	320	891	1,516
200,000 " 499,999	14	417	1,467	1,305	54	2,189	4,995	2,708	-	-	625	2,138	3,702
500,000 " 999,999	6	300	638	996	46	2,220	4,077	1,908	-	-	378	1,401	2,058
1,000,000 " 4,999,999	7	1,718	3,767	6,271	262	13,094	30,821	18,562	-	-	2,289	8,581	23,162
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See footnotes following Table 3 A.

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1961													
Under \$10,000	25	12	24	35	10	124	219	97	20	46	18	44	100
\$ 10,000 to \$ 24,999	21	62	118	138	8	204	571	354	12	62	64	194	373
25,000 " 49,999	17	89	168	219	15	429	1,052	625	9	53	115	306	626
50,000 " 99,999	14	175	375	475	35	777	1,763	967	5	17	247	707	1,035
100,000 " 199,999	11	227	457	622	27	1,500	2,894	1,385	-	-	334	960	1,405
200,000 " 499,999	11	537	1,144	1,593	84	2,752	6,112	3,247	-	-	700	2,437	3,674
500,000 " 999,999	3	360	701	1,010	35	1,848	4,148	2,445	-	-	450	1,514	2,580
1,000,000 " 4,999,999	5	1,288	2,738	5,349	228	12,006	27,294	16,031	-	-	1,894	7,722	21,929
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	200	1,174	...
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	178	4,042	15,057	31,727
1962													
Under \$10,000	22	12	22	30	4	50	142	89	15	30	18	36	90
\$ 10,000 to \$ 24,999	22	33	68	87	10	233	600	359	12	50	54	150	372
25,000 " 49,999	20	106	227	282	15	449	1,145	677	9	42	135	388	710
50,000 " 99,999	19	216	450	590	30	1,165	2,584	1,378	5	34	282	638	1,457
100,000 " 199,999	10	229	490	640	38	1,233	2,643	1,420	-	-	344	983	1,641
200,000 " 499,999	12	533	1,710	1,784	74	3,153	6,640	3,435	-	-	737	2,725	4,447
500,000 " 999,999	7	1,718	3,767	6,271	262	13,094	30,821	18,562	-	-	2,289	8,581	23,162
1,000,000 " 4,999,999													
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Head offices, sales offices and auxiliary units ¹⁰	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See footnotes following Table 3 A.

TABLE 1D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁶	Value added ⁶	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000			'000				'000		'000			
1961													
Under \$10,000	25	12	24	35	10	124	219	97	20	46	18	44	100
\$ 10,000 to \$ 24,999	20	58	110	125	8	188	531	331	12	62	76	171	343
25,000 " 49,999	19	99	211	253	17	471	1,170	701	9	53	130	355	703
50,000 " 99,999	12	158	339	415	31	677	1,541	838	5	17	223	624	851
100,000 " 199,999	12	238	479	660	29	1,575	3,036	1,461	-	-	351	1,017	1,544
200,000 " 499,999	10	499	1,068	1,508	79	2,468	5,449	2,911	-	-	626	2,158	3,044
500,000 " 999,999	3	246	486	688	31	1,390	3,137	1,802	-	-	348	1,246	2,097
1,000,000 " 4,999,999	6	1,440	3,030	5,756	238	12,749	28,968	17,012	-	-	2,070	8,269	23,042
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	200	1,174	...
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	178	4,042	15,057	31,722
1962													
Under \$10,000	22	12	22	30	4	50	142	89	15	30	18	36	90
\$ 10,000 to \$ 24,999	20	28	57	71	9	159	477	311	12	50	47	126	319
25,000 " 49,999	21	104	221	276	15	499	1,193	677	9	42	134	385	686
50,000 " 99,999	19	214	443	583	29	1,116	2,521	1,363	5	34	275	811	1,393
100,000 " 199,999	11	238	513	670	39	1,306	2,781	1,484	-	-	359	1,038	1,783
200,000 " 499,999	10	480	1,064	1,510	66	2,923	5,724	2,871	-	-	589	2,052	3,169
500,000 " 999,999	4	269	1,122	1,006	34	1,407	3,569	2,051	-	-	422	1,696	2,761
1,000,000 " 4,999,999	5	1,502	3,290	5,539	237	11,916	28,167	17,075	-	-	2,015	7,558	21,699
5,000,000 and over													
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See footnotes following Table 3 A.

TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed,¹¹ 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁶	Value added ⁶	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000			'000				'000		'000			
1961													
Under 5 employees	41	44	94	120	17	324	738	417	30	102	60	159	432
5- 14 employees	27	158	316	389	30	694	1,726	1,005	11	59	208	568	1,021
15- 49 "	20	336	697	947	47	1,964	4,083	2,093	5	17	505	1,502	2,189
50- 99 "	11	564	1,199	1,625	86	2,804	6,062	3,160	-	-	725	2,418	3,572
100-199 "	3	360	701	1,010	35	1,848	4,148	2,445	-	-	450	1,514	2,580
200-499 "	5	1,288	2,738	5,349	228	12,006	27,294	16,031	-	-	1,894	7,722	21,929
500 employees and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	200	1,174	...
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	178	4,042	15,057	31,722
1962													
Under 5 employees	45	40	84	111	14	331	868	530	26	77	70	192	544
5- 14 employees	27	159	343	443	28	760	1,899	1,101	13	55	199	592	1,145
15- 49 "	22	411	845	1,135	59	2,541	5,147	2,595	2	23	584	1,750	2,889
50- 99 "	11	519	1,695	1,724	70	2,651	5,840	3,131	-	-	717	2,586	4,140
100-199 "	3	376	789	1,167	33	2,003	4,443	2,600	-	-	454	1,575	2,830
200-499 "	4	1,342	2,978	5,104	230	11,091	26,377	15,962	-	-	1,835	7,006	20,352
500 employees and over													
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See footnotes following Table 3 A.

TABLE 1 F. Principal Statistics classified by Type of Organization, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept³

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000			\$'000		
1961													
Individual ownerships	30	58	129	153	13	217	631	399	30	114	62	160	404
Partnerships	9	48	95	123	5	167	445	273	16	64	72	175	273
Incorporated companies	68	2,644	5,522	9,164	425	19,256	42,977	24,480	...	...	3,708	13,548	31,045
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	200	1,174	...
Totals	107	2,750	5,746	9,440	443	19,641	44,053	25,152	46	178	4,042	15,057	31,722
1962													
Individual ownerships	27	62	137	161	13	224	610	383	25	82	66	166	384
Partnerships	9	37	75	100	3	124	359	232	16	74	37	100	242
Incorporated companies	76	2,748	6,522	9,424	417	19,029	43,606	25,304	...	...	3,756	13,436	31,274
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units ¹⁰ .....	...	...	...	...	...	...	...	...	...	...	314	1,568	...
Totals	112	2,847	6,734	9,684	433	19,376	44,575	25,919	41	156	4,173	15,270	31,901

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept³

Item	1961	1962
		\$'000
Manufacturing activity:		
Value of shipments - Goods of own manufacture	44,053	44,575
Add: Closing inventory - Goods in process	2,079	2,351
Finished goods	4,755	5,600
Deduct: Opening inventory - Goods in process	1,657	2,070
Finished goods	3,995	(6,798)
Gross output - Manufacturing activity	45,235	45,728
Deduct: Cost of materials and supplies used in manufacturing activity	19,641	19,376
Cost of fuel and electricity used	443	433
Value added - Manufacturing activity	25,152	25,919
Non-manufacturing activities:		
Value of shipments - Goods not of own manufacture .....	..	16,989
Add: All other revenue .....	..	403
Closing inventory - Goods purchased for resale	4,234	4,531
Deduct: Purchases of goods for resale as such .....	..	11,209
Opening inventory - Goods not of own manufacture	2,551	4,468
Cost of all other materials and supplies used .....	..	264
Value added - Non-manufacturing activities	6,570	5,982
Total value added	31,722	31,901

See footnotes following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office ^{2,3}		Sales, and distribution ⁴		Total employees ^{5,6}		Production and related workers		Admin- istrative and office	Sales, and distri- bution	Total salaries and wages
	Manufacturing ⁷		Other ⁸		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1961															
Quebec	578	226	..	..	..	..	..	..	819	268	1,931	..	..	3,286
Ontario	1,409	477	..	..	..	..	..	..	1,970	840	7,345	..	..	11,111
Manitoba .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saskatchewan	5	3	..	..	..	..	..	..	32	11	16	..	..	315
Alberta .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
British Columbia	23	29	..	..	..	..	..	..	60	42	148	..	..	345
Totals	2,015	735	..	..	..	..	..	..	2,881	1,161	9,440	..	..	15,057
1962															
Newfoundland .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Quebec	648	192	3	6	56	27	159	13	866	238	2,135	9	380	3,400	
Ontario	1,429	518	36	142	301	214	210	25	1,976	899	7,368	181	2,436	10,931	
Manitoba .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Saskatchewan	4	3	-	-	5	1	55	11	64	15	21	-	21	513	
Alberta .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
British Columbia	25	28	-	-	16	12	30	4	71	44	161	-	99	426	
Totals	2,106	741	39	148	378	254	454	53	2,977	1,196	9,684	190	2,936	15,270	

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers,⁴ - Manufacturing Activity, by Months, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Month	Establishments reporting monthly detail	
	Male	Female
	number	
January	1,751	638
February	1,794	676
March	1,803	683
April	1,847	697
May	1,979	694
June	2,045	686
July	1,945	657
August	2,066	683
September	2,105	688
October	2,104	727
November	2,147	724
December	2,033	692
Average for establishments reporting monthly detail (collected only for large establishments)	1,969	685
Average for small establishments (only annual averages collected)	137	56
Average for all establishments	2,106	741

¹ See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.

² See Explanatory Notes.

³ This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes of comparison with the tabulations of previous years.

⁴ Conceptually identical to previous years. See Explanatory Notes.

⁵ Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.

⁶ Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years. See Explanatory Notes.

⁷ Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.

⁸ Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition; all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.

⁹ Sales and distribution workers and production workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees. Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are located.

¹⁰ These data cover the activities reported by separately located units such as head offices, sales offices, administrative offices, laboratories, warehouses, etc. Such units do not usually constitute separate "establishments" as they do not normally generate all the necessary elements of input and output statistics. However, they are treated as extensions of manufacturing establishments and, in the case of individual industries, may be located in provinces where no processing plants are situated. For the most part, these units contribute only to costs of operations (mainly salaries and wages) and they are included here to provide completeness and consistency of the statistics. See Explanatory Notes which deal with Single and Multi establishments for a complete explanation of procedures.

¹¹ Includes paid employees, working owners but excludes unpaid family workers.

Note: Figures may not add due to rounding.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Cost
	\$'000
1. All materials and components used ²	17,988
2. Containers and other packaging materials and supplies used	461
3. Operating, maintenance and repair supplies used (excluding fuel)	758
4. Amount paid out to others for work done on materials owned by establishments	169
Total	19,376

¹ See Explanatory Notes.

² 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 \$776,603.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description	Quantity	Cost
		\$'000
1. Large establishments which reported commodity detail:		
Bituminous coal:		
(a) From Canadian mines	ton 321	5
(b) Imported	" 5,262	68
Sub-bituminous coal (from Alberta mines only)	-	-
Anthracite coal	ton 42	1
Lignite coal	-	-
Coke	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 71,017	29
Fuel oil including kerosene or coal oil	" 390,413	46
Wood	cord 519	3
Gas:		
(a) Liquefied petroleum gases	Imp. gal. 167,638	19
(b) Other manufactured gas	-	-
(c) Natural gas	M cu. ft. 13,351	13
Other fuel	-	-
Electricity purchased	kwh. 13,645,065	220
Steam purchased .....	...	2
2. Estimate for small establishments for which no data were collected:		
Fuel and electricity .....	...	28
3. All establishments:		
Total fuel and electricity used .....	...	433

¹ Does not include fuel and electricity produced for own use.

² Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

³ See explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Value
	\$'000
1. Products:	
Archery tackle	246
Baseball equipment and supplies, all kinds	1,534
Bicycles, and bicycle parts	1
Billard, bowling and football equipment and supplies, all kinds	1
Golf equipment and supplies, all kinds	4,923
Hockey equipment and supplies, all kinds	4,830
Skiing equipment and supplies, all kinds	348
Badminton, tennis and squash equipment and supplies, all kinds	254
Fishing rods	2,588
Fishing lures	
Fishing tackle, other	
Gymnasium equipment	733
Playground equipment, (swings, slides, etc.), commercial	1
Playground equipment, (swings, slides, etc.), home	1
Track and field equipment, n.e.s.	1
Miscellaneous equipment (lacrosse, basketball, croquet and volley ball)	302
All other sporting goods (including ice skates and roller skates)	26,113
All other products	2,852
2. Amount received in payment for work done on materials and products owned by others	84
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(231)
Total adjusted value of shipments and work done	44,575

¹ See Explanatory Notes.

² Confidential: included in "All other sporting goods".

TABLE 7. Industry Inventories, 1962¹
Basis: Revised Standard Industrial Classification and New Establishment Concept²

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:³						
Newfoundland	736	332	353	1,421	42	1,463
Quebec						
Ontario	5,582	1,709	4,279	11,569	4,358	15,927
Manitoba						
Saskatchewan	16	4	10	30	—	30
Alberta						
British Columbia	91	26	86	203	68	271
Totals⁴	6,425	2,070	4,728	13,223	4,468	17,691
Closing:						
Newfoundland	912	343	432	1,687	32	1,719
Quebec						
Ontario	4,984	1,983	5,072	12,039	4,430	16,468
Manitoba						
Saskatchewan	14	4	7	25	—	25
Alberta						
British Columbia	90	22	88	200	70	270
Totals⁴	5,999	2,351	5,600	13,951	4,531	18,482

¹ Values represent book values of inventories owned in Canada.

² See Explanatory Notes.

³ The opening inventories may differ from the closing inventories for the previous survey 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.

⁴ Figures may not add due to rounding.

TABLE 8. Shipments of Goods of Own Manufacture - All Industries,¹ 1961 and 1962^P

Description	1961		1962 ^P	
	Quantity	Value \$'000	Quantity	Value \$'000
Archery tackle .....	...	197	...	246
Baseballs	doz. 28,750	341	58,906	767
Softballs	" 31,006	408		
Balls, other (basket, golf, footballs, soccer, tennis, etc.) .....	...	1,768	...	1,898
Bats (baseball and softball)	No. 209,407	151	195,368	155
Bicycles, and bicycle parts .....	...	2	...	2
Billiard and bowling equipment and supplies .....	...	2	...	2
Fishing rods	No. 303,068	846	364,880	1,174
Fishing lures	" 3,038,443	761	3,416,507	893
Fishing reels	"	"	9,232	26
Fishing tackle, other	"	806	...	964
Fishing nets, sporting	No. 28,957	66	41,009	95
Gloves and mitts:				
Baseball	" 108,039	514	95,141	477
Hockey	pair 156,857	670	139,424	791
Boxing, etc., n.e.s.	" 257,198	343	214,820	376
Golf clubs, complete	No. 489,431	3,012	516,054	3,223
Golf equipment, other .....	...	248	...	549
Gymnasium equipment and supplies .....	...	832	...	1,230
Hockey pucks .....	...	2	...	2
Hockey sticks	doz. 348,119	2,503	373,199	2,712
Playground equipment (swings, slides, etc.), commercial .....	...	340	...	1,481
Playground equipment (swings, slides, etc.), home .....	...	1,202	...	2
Track and field equipment, n.e.s. ....	...	2	...	2
Racquets and frames, tennis	No. 46,199	219	40,109	243
Racquets and frames, badminton and squash	"	"	"	"
Skates, ice	pair 2,460,920	2,814	2,848,965	4,228
Skates, roller	"	2	56,000	143
Skis (snow and water)	" 101,652	755	58,578	517
Ski poles and fittings, snow .....	...	229	...	2
Sporting goods, all other .....	...	24,859	...	22,796
Total value of shipments¹ .....	...	44,084	...	44,984

¹ Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

² Confidential: Included in "Sporting goods, all other".

^P These shipments do not include ammunition, sporting rifles and other firearms, tents and other canvas products, sleeping bags, and pleasure boats and accessories, generally recorded by the trade as being "Sporting Goods" but not classified as such in the Standard Commodity Classification.

List of Establishments, 1962

Name	Address
Newfoundland:	
Alpear Agencies	Empire Ave, W. St. John's
Quebec:	
Aqua Lake Mfg. Reg'd.	104, rue Henault, L'Ephéphanie
Atelier Sportif Enr.	St-Anselme, Cté Dorchester
Bel Lo Swimming Pools Inc.	194, Notre Dame, Lavaltrie
Big Chief Manufacturing Reg'd.	87 rue des Erables, Village Huron, Cté Loretteville
Canada Cycles & Motor Co., Ltd., Cho-Wood Division	427 St. James St., St. Johns
Daignault Rolland Cie Ltée	2567 rue Rouen, Montreal 24
Eagle Leather Works Co.	4264 Ontario St. E., Montreal
Faber & Cie	Loretteville
General Recreation Equipment Ltd.	1 Corbell St., Pont Viau, Montreal, 9
Guillemette, N. Enrg.	rue Principale, St-Elle de Caxton cté St. Maurice
Gymnastic Associates, Ltd.	2210 Beaconsfield Ave., Montreal 28
Huron Fishing Tackle Inc.	103 rue St-Pierre, Québec
Jolicoeur, Gaston	4275 Blvd. Henri Bourassa, Charlesbourg
Kingswood Inc.	Pont-Rouge, Cté, Portneuf
La Cie Torpedo De Megantic Ltée	16 rue Lévis, Lac Megantic, Cté. Frontenac
Les Industries Bellerive Ltée	57 rue Ogilvie, Valleyfield
Les Produits Aqua Products	8571, Chateaubriand, Montreal 11
Mailhot & Frères	35 rue Campagna, Victoriaville (Cp. 84)
Major Rod Mfg. Co., Ltd.	723 Notre Dame St. W., Montreal 3
Michaud, André Inc.	2795 rue Roy, Sherbrooke
Montreal Skis Inc.	333 Port Royal West, Montreal 12
Trudeau & Fils Ltée	Ste-Agathe, Lotbinière, C.P. 74
Parent & Fils	59, rue Parent, Loretteville
Picard & Frère Enrg.	Village des Hurons
Precision Wood Craft	4 Gbault St., St. Chrysostome Cté Chateauguay
St. Lawrence Mfg. Co., Inc.	3030 Ste. Anne Blvd., Giffard, Cté Montmorency
Sea Gliders Inc.	2910, rue Champlain, Fabreville
Sherbrooke Wood Products Inc.	985 Galt St. E., Sherbrooke
Shen H. Ski Shop	1428 St. Antoine St., Montreal 3
Sparkling Products Co., Ltd.	333-9th Ave. S., Sherbrooke
Superstrong Wood Products Reg'd.	7485, Marie Victorin, Brosseau Station
The Sher-Wood Hockey Sticks Corp., Ltd.	2795, Roy Street, Sherbrooke
Ugo Sport Co. Ltd.	3435 Metropolitan Blvd. East, Montreal 38
Victoria Precision Works Co., Ltd.	2901 Rouen St. Montreal 24

List of Establishments, 1962 - Concluded

Name	Address
Ontario	
Allcock, Laight & Westwood Ltd.	206 Parkhurst Blvd., Leaside, Toronto 17
Aqua Lung of Canada	800 Burlington E., Hamilton
Archery Craft	2588 St. Clair Ave. W., Toronto 9
B & S Marine	136 East St. Goderich Huron Co.
Baker Sporting Goods Ltd.	No. 53 Hwy. Burford Rd., Brantford
Bentley's Sporting Goods, Limited	755 First Ave., Niagara Falls
Blanchard, J.G., Limited	6 Bartlett Ave., Toronto 4
Breslau Wood Specialties	Main St., Breslau
Brunswick of Canada, Ltd.	1156 Dundas Highway East, Cooksville
Campbell Mfg. Co., Ltd.	45 Sheppard Ave. E., Willowdale
Canada Cycle & Motor Co., Ltd.	2015 Lawrence ave. W., Weston
Canada Fishing Tackle & Sports Limited	Ottawa Street, Havelock
Canada Skate Mfg. Co., Ltd.	236 Victoria St., N. Kitchener
Canadian Gymnasium & Slenderizing Equip., Co., Ltd.	21 Alexander Blvd. Toronto 12
Canadian Metalcraft Products	87 A Awde St., Toronto 4
Chisholm Lacrosse Mfg. Co.	Cornwall Island, Cornwall
Comet Tackle Company Ltd.	60 Front St. W., Toronto 1
Cooper-Weeks Limited	260 Loughton Ave., Toronto 9
Cummings, E.D. (Canada) Ltd.	Main St. Rockwood
Dominion Fishing Tackle Mfrs.	Oro Station
Dominion Skate Company	3436 Mavis Road, Cooksville
Double Diamond Bowling supply Ltd.	47 Orfus Road, Toronto 19
Dunne, W.H. Skate Company, Ltd.	243 Mac Donnell ave. Toronto 3
Dunsdon, Les, Limited	18 Hamilton Ave., Brantford
Emmons Industries	47 Westlake Crescent, Toronto 13
Fleet Sporting Goods	Rossmore, Prince Edward Co.
Great Lakes Sporting Goods Ltd.	856 Walker Road, Windsor
Gross Products	West St. S., Orillia
Helin Tackle Co., Limited	Front Street, La Salle
Hespeler St. Marys Wood Specialties Ltd.	63 Sheffield St., Hespeler
Hex Baits (1957) Ltd.	Brockville, R.R. #3
Iannom & Wellinger Limited	H.O. - 350 Sorauren Ave., Toronto 3, Plant - 100 Victoria St., Barrie
Lauman Golf Supply Ltd.	785 Belmont Ave. W., Kitchener
Lindquist Bros. Bait Co. Ltd.	1222 Shawnee Road, Tecumseh
Lucky Strike Bait Works Limited	505 Sherbrooke St., Peterborough
Mc Robert Mfg. Co.	175 Munro St., Toronto 8
Madsen Mfg. Co., Ltd.	No 7 Highway, Unionville
Martin, C.B., Ltd.	119 Manville Rd., Scarborough
Myhal, John Cabinet Maker	72 Richardson St., Brantford
Paris Playground Equipment Limited	Gold St., Paris
Saarimaa, A.W. Tackle Company	163 Willowdale Ave., Willowdale
Savage Brothers	48 Albert St. Beamsville
Schindler Co. of Canada Limited, The	1 Audrey St., Mimico
Searle Industries Ltd.	210 Ferrie St. E., Hamilton
Slazengers Canada Ltd.	89 Northline Road, Toronto 16
Spalding, A.G. & Bros. of Canada Ltd.	11 Spalding Drive, Brantford
Shakespeare Co. (Canada) Ltd.	314 Rexdale Blvd., Rexdale
Stag Lubricant Co., Ltd.	Box 73, Rockwood
Three Star Hockey Stick Co.	Breslau
Tillmark Archery	226 Main St., N., Newmarket
Tugg and Mason Limited	396 King St. W., Toronto 2 B
Wally Enterprises Limited	Arnold St. Wallaceburg
Wellinger & Dunn Leather Goods Limited	350 Sorauren Ave., Toronto 3
Werlich Industries Ltd.	131 Bishop St., Preston
Wyllie Webb Co. Ltd.	2 Colwood Rd., Islington
Manitoba:	
Richard Bait Manufacturing Ltd.	574 1/2 Minto St. Winnipeg 10
Roziese, Andre	125 Handyside Ave., Winnipeg 8
Saskatchewan:	
Douglas, Bill Company Limited	101 Ave. C, South, Saskatoon
Alberta:	
Thompson-Pallister Bait Co. Ltd.	5019-51st Street, Lacombe
British Columbia:	
Alexander Metal Products Ltd.	1671 East Hastings St., Vancouver 6
Caldwell Industries Company	124 Mountain Highway, North Vancouver
Clendon Metal Stamping Works	1314 Graveley St., Vancouver 6
Coast Precision Engineering Ltd.	1573 West 6th Ave., Vancouver 9
Davis Rhys, A.	2070 Lands End Rd., Sidney
Dooley L.R. Mfg. Co.	R.R. 1 Kelowna
Filter Fishing Rod Mfg.	5842 Byrant St., Burnaby 1
Gibbs Tool & Stamping Works	290 West Third Ave., Vancouver 10
Lex Enterprises Ltd.	1191 W. 15th St., North, Vancouver
Maxwell, R.J. Ltd.	1178 Hamilton St., Vancouver 3
Nygio Products	P.O. Box 850, Hope
O'Sullivan Recreation Industries Ltd.	894 New River Drive, Richmond
Peetz & Son	574 Johnson St., Victoria
Pioneer Envelopes Ltd. (Goldcraft Division)	560 Camble St., Vancouver
Redal Industries Limited	2346 Clarke St., Port Moody (Box 105)
Rich-Make Mfg. Ltd.	5560 Lincoln St., Vancouver 16
Scott Plastics Ltd.	21 Erie St., Victoria
Williams Archery Co., Ltd.	Box 494, Ladysmith

SECTION 2. TOYS AND GAMES INDUSTRY, 1962

In terms of the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in manufacturing toys of all kinds such as tricycles, dolls, wagons, sleighs, and games".

For the 1962 survey, a change was made to the total activity approach as fully outlined in the Explanatory Notes contained at the end of this report. These total data were also collected in the 1961 survey, but were not published at that time. Many tables in this section of the report reflect this increase in activity coverage, presenting both 1961 and 1962 figures.

It will be noted that Table 1 presents the manufacturing activity principal statistics for the years 1957 to 1961, inclusive, whereas Table 1 A shows most of the same statistics for 1961 and 1962. During the

carrying out of the 1962 survey, certain preceding 1961 information was received: this accounts for the difference between the 1961 data as shown in both of these tables.

No detailed information is collected on manufacturing materials and supplies used by this industry so that Table 4 presents these data with a minimum of breakdown. Many establishments, not classified to this industry, manufacture toys and games as secondary products. For this reason, the shipments of goods of own manufacture in Table 6 have been shown in abridged form in order that the shipments of toys and games by all industries might be presented in Table 8 with as much detail as possible.

A list of the establishments classified to this industry in the 1962 survey will be found at the end of this section of the report.

TABLE 1. Principal Statistics - Manufacturing Activity,¹ 1957-61
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year	Establishments	Employees						Cost of fuel and electricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴
		Production and related workers ⁴		Administrative and office employees ³		Total ⁴					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.	\$'000		\$'000				\$'000			
1957	67	1,857	3,738	276	1,256	2,133	4,993	234	9,203	18,682	..
1958	70	1,882	4,098	304	1,513	2,186	5,612	249	10,704	21,279	10,599
1959	67	2,191	4,660	351	1,761	2,542	6,420	246	11,927	23,818	11,984
1960	71	2,397	5,333	385	1,791	2,782	7,124	252	12,899	24,996	12,170
1961	73	2,422	5,496	409	1,972	2,831	7,468	264	14,820	29,614	14,397

See footnotes following Table 3 A.

TABLE 1 A. Principal Statistics - Manufacturing Activity and Total Activity,¹ 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ³	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000		\$'000			\$'000		\$'000			
1961													
Quebec	16	623	1,208	1,392	62	3,080	7,004	3,751	6	20	738	1,890	3,946
Ontario	50	1,787	3,636	4,081	201	11,650	22,516	10,635	20	99	2,283	6,200	10,991
Nova Scotia	3												
Manitoba	2	14	24	23	2	45	94	56	5	9	16	25	56
British Columbia	2												
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Nova Scotia	3	4	10	10	1	12	39	24	"	"	4	10	24
Quebec	14	604	1,259	1,424	69	3,593	7,100	3,522	3	9	737	2,162	3,593
Ontario	52	2,128	4,518	4,846	232	14,696	26,700	12,569	15	47	2,667	7,004	13,011
Manitoba	2												
Alberta	1	11	24	28	1	43	126	93	"	"	19	33	92
British Columbia	4												
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See Table 2 and footnotes following Table 3 A.

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity						Total activity					
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1961													
Under \$10,000	8	4	6	5	1	12	32	20	7	12	4	5	20
\$ 10,000 to \$ 24,999	10	22	37	35	2	56	152	95	7	21	25	40	100
25,000 " 49,999	8	34	71	71	3	124	284	153	4	12	45	98	152
50,000 " 99,999	12	74	143	163	14	374	834	445	8	38	92	222	444
100,000 " 199,999	8	97	191	197	12	656	1,131	528	2	2	125	282	527
200,000 " 499,999	6	197	428	447	24	1,246	2,235	952	2	32	235	607	941
500,000 " 999,999	11	460	1,019	1,084	56	4,778	7,905	3,075	-	-	588	1,776	3,480
1,000,000 " 4,999,999	10	1,538	2,973	3,493	153	7,530	17,040	9,174	1	10	1,923	5,086	9,329
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Under \$10,000	12	10	19	23	1	22	57	23	7	11	14	26	22
\$ 10,000 to \$ 24,999	10	18	40	41	2	55	166	106	8	18	18	41	109
25,000 " 49,999	6	17	43	44	2	86	216	134	3	12	26	54	134
50,000 " 99,999	9	57	130	131	5	289	655	372	4	14	73	197	371
100,000 " 199,999	8	122	271	279	14	616	1,147	587	2	11	144	388	584
200,000 " 499,999	9	234	535	513	22	1,647	2,823	1,146	-	-	271	692	1,138
500,000 " 999,999	11	525	1,172	1,280	71	4,923	8,014	3,241	-	-	623	1,860	3,284
1,000,000 " 4,999,999	11	1,764	3,602	3,997	186	10,706	20,888	10,598	-	-	2,258	5,950	11,078
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See footnotes following Table 3A.

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab- lish- ments	Manufacturing activity						Total activity					
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000		\$'000			
1961													
Under \$10,000	15	16	29	26	2	46	127	79	11	25	19	31	84
\$ 10,000 to \$ 24,999	13	50	97	96	4	224	462	224	8	28	63	127	223
25,000 " 49,999	9	61	128	142	8	362	685	335	9	32	76	179	334
50,000 " 99,999	9	104	195	207	18	589	1,160	603	-	-	133	310	602
100,000 " 199,999	6	151	336	343	17	1,625	2,565	841	2	32	199	541	1,027
200,000 " 499,999	12	558	1,214	1,289	63	5,097	8,607	3,533	-	-	686	2,011	3,740
500,000 " 999,999	6	671	1,370	1,598	79	3,521	7,903	4,171	1	10	945	2,553	4,143
1,000,000 " 4,999,999	3	613	1,500	1,794	74	3,311	8,106	4,656	-	-	916	2,364	4,841
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Under \$10,000	17	15	30	34	3	45	123	63	11	21	19	37	63
\$ 10,000 to \$ 24,999	10	29	70	70	3	109	274	156	7	20	32	78	159
25,000 " 49,999	10	57	127	127	5	368	723	406	3	9	79	200	403
50,000 " 99,999	9	142	312	323	14	801	1,449	670	3	17	166	440	688
100,000 " 199,999	9	268	631	602	29	1,911	3,227	1,272	-	-	311	817	1,256
200,000 " 499,999	12	644	1,400	1,479	71	6,556	10,190	3,838	-	-	769	2,255	4,158
500,000 " 999,999	6	713	1,546	1,794	81	4,731	9,246	4,757	-	-	1,017	7,717	4,998
1,000,000 " 4,999,999	3	879	1,695	1,880	97	3,822	8,734	5,044	-	-	1,034	2,664	5,017
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See footnotes following Table 3A.

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.	'000				'000			'000		'000			
1961													
Under \$10,000	14	15	27	24	2	42	116	72	10	22	18	29	72
\$ 10,000 to \$ 24,999	14	51	99	98	4	227	473	231	9	31	64	128	235
25,000 " 49,999	9	61	128	142	8	362	685	335	9	32	76	179	334
50,000 " 99,999	9	104	195	207	18	589	1,160	603	—	—	133	310	602
100,000 " 199,999	5	151	336	343	17	1,037	1,794	728	2	32	183	468	719
200,000 " 499,999	13	558	1,214	1,289	63	5,685	9,378	3,647	—	—	702	2,084	4,048
500,000 " 999,999	6	671	1,370	1,598	79	3,521	7,903	4,171	1	10	945	2,553	4,143
1,000,000 " 4,999,999	3	813	1,500	1,794	74	3,311	8,106	4,656	—	—	916	2,364	4,841
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Under \$10,000	17	15	30	34	3	45	123	63	11	21	19	37	63
\$ 10,000 to \$ 24,999	10	29	70	70	3	109	274	156	7	20	32	78	159
25,000 " 49,999	10	57	127	127	5	368	723	406	3	9	79	200	403
50,000 " 99,999	9	142	312	323	14	801	1,449	670	3	17	166	440	668
100,000 " 199,999	9	268	631	602	29	1,911	3,227	1,272	—	—	311	817	1,256
200,000 " 499,999	11	525	1,153	1,265	63	5,623	8,887	3,453	—	—	625	1,866	3,500
500,000 " 999,999	5	523	1,133	1,107	53	3,741	6,907	3,329	—	—	627	1,671	3,575
1,000,000 " 4,999,999	5	1,188	2,355	2,781	133	5,746	12,376	6,857	—	—	1,568	4,100	7,097
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See footnotes following Table 3 A.

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1961 and 1962
 Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.	'000				'000			'000		'000			
1961													
Under 5 employees	23	32	59	57	4	172	407	226	18	47	38	69	231
5- 14 employees	18	129	260	272	20	636	1,277	638	10	38	164	362	637
15- 49 "	13	252	512	553	22	3,450	5,797	2,442	2	32	362	1,141	2,787
50- 99 "	11	540	1,201	1,252	66	4,169	7,256	3,004	—	—	648	1,821	3,042
100-199 "	3	286	631	615	36	1,529	3,649	1,907	1	10	368	919	1,898
200-499 "	5	1,185	2,205	2,747	116	4,818	11,228	6,226	—	—	1,457	3,803	6,398
500 employees and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Under 5 employees	26	32	69	74	4	156	409	230	16	37	39	87	232
5- 14 employees	14	95	223	225	13	637	1,243	647	6	18	126	337	646
15- 49 "	15	303	688	692	27	2,663	4,546	1,974	2	11	371	1,023	2,062
50- 99 "	13	716	1,544	1,608	80	6,675	11,327	4,896	—	—	834	2,290	4,820
100-199 "	4	485	1,080	1,047	50	3,198	5,863	2,782	—	—	575	1,550	3,035
200-499 "	4	1,116	2,208	2,662	129	4,994	10,579	5,678	—	—	1,482	3,921	5,926
500 employees and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See footnotes following Table 3 A.

TABLE 1 F. Principal Statistics classified by Type of Organization, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	Working owners and partners ⁴		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			'000				'000			'000	
1961													
Individual ownerships	18	44	84	92	5	166	398	220	18	57	48	106	224
Partnerships	9	156	318	320	17	1,038	1,990	925	13	71	179	399	917
Incorporated companies	46	2,224	4,465	5,084	242	13,571	27,226	13,298	...	...	2,810	7,611	13,851
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	73	2,424	4,868	5,496	264	14,775	29,614	14,443	31	128	3,037	8,115	14,993
1962													
Individual ownerships	16	28	71	73	4	117	306	185	16	39	31	84	188
Partnerships	4	25	56	54	1	112	262	146	8	27	25	54	146
Incorporated companies	56	2,694	5,684	6,181	299	18,114	33,398	15,877	...	...	3,371	9,070	16,387
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	76	2,747	5,811	6,309	303	18,343	33,965	16,207	24	66	3,427	9,208	16,720

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Item	1961		1962	
	\$'000			
Manufacturing activity:				
Value of shipments - Goods of own manufacture		29,614		33,965
Add: Closing inventory - Goods in process	636		767	
Finished goods	2,009	2,645	3,154	3,921
Deduct: Opening inventory - Goods in process	535		840	
Finished goods	2,242	(2,777)	2,192	(3,032)
Gross output - Manufacturing activity		29,482		34,854
Deduct: Cost of materials and supplies used in manufacturing activity	14,775		18,343	
Cost of fuel and electricity used	264	(15,039)	303	(18,646)
Value added - Manufacturing activity		14,443		16,207
Non-manufacturing activities:				
Value of shipments - Goods not of own manufacture .....		..		3,244
Add: All other revenue .....	..		19	
Closing inventory - Goods purchased for resale	487	..	768	787
Deduct: Purchases of goods for resale as such .....	..		2,830	
Opening inventory - Goods not of own manufacture	278		491	
Cost of all other materials and supplies used .....	..	(..)	197	(3,518)
Value added - Non-manufacturing activities		550		513
Total value added		14,993		16,720

See footnote following Table 3 A.

TABLE 3. Employment and Payroll, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office ^{2,3}		Sales, and distribution ⁴		Total employees ^{5,6}		Production and related workers		Administrative and office	Sales, and distribution	Total salaries and wages
	Manufacturing ⁴		Other ⁷		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
1961	number										\$'000				
Quebec	281	342	..	..	..	..	..	..	356	382	1,392	..	..	..	1,890
Ontario	657	1,130	..	..	..	..	..	..	859	1,424	4,081	..	..	..	6,200
Nova Scotia	8	6	..	..	..	..	..	..	8	8	23	..	..	..	25
Manitoba															
British Columbia															
Totals	946	1,478	..	..	..	..	..	..	1,223	1,814	5,496	..	..	..	8,115
1962															
Nova Scotia	4	—	—	—	—	—	—	—	4	—	10	—	—	—	10
Quebec	292	312	—	—	69	32	29	3	390	347	1,424	—	564	174	2,162
Ontario	804	1,324	—	155	159	144	63	18	1,026	1,641	4,846	74	1,649	434	7,004
Manitoba															
Alberta	6	5	—	5	2	1	—	—	8	11	28	2	2	—	33
British Columbia															
Totals	1,106	1,641	—	160	230	177	92	21	1,428	1,999	6,309	76	2,215	608	9,208

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers,⁴— Manufacturing Activity, by Months, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Month	Establishments reporting monthly detail	
	Male	Female
	number	
January	731	979
February	774	1,034
March	836	1,167
April	897	1,242
May	932	1,273
June	1,019	1,343
July	968	1,472
August	1,145	1,798
September	1,198	2,113
October	1,413	2,501
November	1,457	2,312
December	895	1,214
Average for establishments reporting monthly detail (collected only for large establishments)	1,022	1,540
Average for small establishments (only annual averages collected)	84	101
Average for all establishments	1,106	1,641

¹ See Table 2 and Explanatory Notes concerning manufacturing and non-manufacturing activities.

² See Explanatory Notes.

³ This category, in this table only, includes working owners and partners. Since administrative and office employees are engaged in a variety of activities they have been excluded from manufacturing activity beginning with the revised 1961 series shown in the following tables. They are included here for purposes of comparison with the tabulations of previous years.

⁴ Conceptually identical to previous years. See Explanatory Notes.

⁵ Cannot be reported separately for manufacturing and non-manufacturing activities but related substantially to manufacturing activity. Identical concept to previous years.

⁶ Working owners and partners were included with administrative and office employees in the "Manufacturing series" published in former years. See Explanatory Notes.

⁷ Includes production and related workers, administrative and office employees, sales distribution and other employees. See Explanatory Notes for the treatment of head office employees and those employed in auxiliary units.

⁸ Value of total shipments and other operational revenue less total cost of materials, supplies, fuels used and purchases of products and materials for resale in the same condition, all adjusted for inventory changes where required. See Table 2 and Explanatory Notes.

⁹ Sales and distribution workers and production workers (non-manufacturing) are included for the first time as a result of the full implementation of the new definition of the establishment. The figures for production workers (non-manufacturing), administrative and office employees and sales and distribution workers are not yet available for 1961 but form part of total employees. Sales and distribution workers may include some employees that are reported as part of a manufacturing establishment but are not working at the establishment's location. Head offices, sales offices, etc., which report separately are included in the figures for the province in which they are located.

¹⁰ Includes paid employees, working owners but excludes unpaid family workers.

¹¹ Confidential data.

Note: Figures may not add due to rounding.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Cost
	\$'000
1. All materials and components used ²	15,385
2. Containers and other packaging materials and supplies used	1,957
3. Operating, maintenance and repair supplies used (excluding fuel)	606
4. Amount paid out to others for work done on materials owned by establishments	395
Total	18,343

¹ See Explanatory Notes.

² 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 \$877,993.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description	Quantity	Cost
		\$'000
1. Large establishments which reported commodity detail:		
Bituminous coal:		
(a) From Canadian mines	ton 223	4
(b) Imported	—	—
Sub-bituminous coal (from Alberta mines only)	—	—
Anthracite coal	ton 65	1
Lignite coal	—	—
Coke	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 52,043	21
Fuel oil including kerosene or coal oil	341,131	55
Wood	—	—
Gas:		
(a) Liquefied petroleum gases	Imp. gal. 120	--
(b) Other manufactured gas	—	—
(c) Natural gas	M cu. ft. 72,661	53
Other fuel	—	—
Electricity purchased	kwh. 9,336,227	140
Steam purchased .....	...	5
2. Estimate for small establishments for which no data were collected:		
Fuel and electricity .....	...	24
3. All establishments:		
Total fuel and electricity used .....	...	303

¹ Does not include fuel and electricity produced for own use.

² Includes only fuel and electricity purchased. Conceptually identical to previous years in that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

³ See Explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Value
		\$'000
1. Products:		
Dolls .....	...	3
Dolls' furnishings .....	...	3
Metal toys .....	...	3
Plastic toys (including inflatable type) .....	...	9,297
Wooden toys .....	...	591
Stuffed animals, etc.	doz. 175,435	3,181
Toy vehicles .....	...	3
Other toys .....	...	17,687
Games and puzzles .....	...	2,821
All other products .....	...	682
2. Amount received in payment for work done on materials and products owned by others		42
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(324)
Total adjusted value of shipments and work done		33,965

¹ See Explanatory Notes.

² Confidential, included with "Other toys".

TABLE 7. Industry Inventories, 1962¹

Basis: Revised Standard Industrial Classification and New Establishment Concept²

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: ³						
Nova Scotia	14	8	1	23	—	23
Quebec	685	387	786	1,858	86	1,944
Ontario	2,198	444	1,388	4,030	406	4,436
Manitoba	} 10	} 1	} 17	} 28	} —	} 28
Alberta						
British Columbia						
Totals⁴	2,907	840	2,192	5,940	491	6,431
Closing:						
Nova Scotia	12	7	1	20	—	20
Quebec	736	349	907	1,992	142	2,133
Ontario	3,053	406	2,223	5,682	626	6,309
Manitoba	} 13	} 5	} 22	} 40	} —	} 40
Alberta						
British Columbia						
Totals⁴	3,813	767	3,154	7,734	768	8,502

¹ Values represent book values of inventories owned in Canada.

² See Explanatory Notes.

³ The opening inventories may differ from the closing inventories for the previous survey 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.

⁴ Figures may not add due to rounding.

TABLE 8. Shipments of Goods of Own Manufacture — All Industries,¹ 1961 and 1962

Description	1961		1962 ²	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
Balloons	gross	328,561	364,200	647
Dolls' carriages (including prams and strollers)	No.	174,403	214,996	1,423
Dolls' furniture .....	...	107	...	126
Dolls	doz.	170,098	161,708	4,689
Dolls' clothes, shoes, etc. ....	...	479	...	¹
Play balls, rubber and plastic (including bladders for footballs, etc)	doz.	361,425	330,670	798
Pools, wading	No.	95,010	219,201	935
Sleighs, children's	"	146,630	134,716	354
Toboggans	"	273,311	247,112	1,112
Tricycles, all types	"	166,153	173,062	1,592
Other children's vehicles .....	...	807	...	487
Games and puzzles .....	...	4,216	...	4,705
Metal toys .....	...	2,257	...	2,421
Plastic toys .....	...	11,861	...	11,239
Rubber toys and novelties .....	...	²	...	¹
Stuffed animals	doz.	166,616	175,435	3,181
Wooden toys .....	...	766	...	981
Miscellaneous toys (including toy vehicles) .....	...	3,470	...	8,974
Total value of shipments³ .....	...	37,132	...	43,666

¹ Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed above.

² Confidential; included in "Miscellaneous toys".

³ These shipments do not include Christmas decorations, displays and Christmas tree holders; artificial Christmas trees; school bags; brief, stationery and portfolio cases and bags; playing cards; home playground equipment and Christmas tree lighting sets and bulbs. All of these commodities are generally regarded by the trade as being "Toys and Games", but are not classified as such in the Standard Commodity Classification. The total shipments of these products by all Canadian manufacturers, with the exception of Christmas tree lighting sets and bulbs for which no separate data are available, were valued at \$5,430,000 in 1961 and, on a preliminary basis, at \$8,722,000 in 1962.

List of Establishments, 1962

Name	Address
Nova Scotia:	
Hardwood Specialties Ltd.	St. Anthony St., Annapolis Royal
Maba Toys Ltd.	Cliff Street, Yarmouth
Kerr Merlin Woodworkers	Meaghers Grout, Cte Halifax
Quebec:	
Carzol Plastics Corporation	8490 Jeanne Mance, Montreal
Central Toy Mfg. Co.	500 Sauvé St., Montreal
Corriveau O. V. Fils Ltée	Bld. St-Nicholas, Montmagny
Eagle Toys Limited	4701 Rivard St., Montreal 34
Gradek Woodwork Co. Ltd.	Road, Fresnière, Cte Deux-Montagnes
Lines Bros. (Canada) Ltd.	4000 St. Patrick St., Montreal 20
Mighty Star Ltd.	1027 Jeanne Mance, Montreal
Morin Woodcraft Reg'd	St-Pie de Bagot
Novelty Toy Mfg. Co. Ltd.	201 St-Louis St., St. John
Overbrook Novelties	251 Laramée Blvd., Hull
Richard Toys Reg'd	146 Chemin Chambly, Longueuil
Sicotte H.A. Mfg. Co.	Rawdon, Montreal
Super Toys Ltd.	6005 Côte de Liesse Rd., St-Laurent
Teddi Toys Ltd.	P.O. Box 612, Granby
Ontario:	
Allen Wood Products Ltd.	Fenelon Falls
Allied Toys & Enterprises Ltd.	604 King St. W., Toronto 2B
Bishop W.F. & Son Ltd.	Unionville, York Co.
Brown's Manufacturing Co.	15A Sinclair Street, Toronto 18
Caper Toy Co. Ltd.	9 Davies Ave., Toronto 4
Cellulose-Henry Davis Plastics Ltd.	259 Spadina Ave., Toronto 2B
Cohn T. Canada Ltd.	1272 Castlefield Ave. W., Toronto 19
Coopex Plastics Co. Ltd.	183 Duke St., Toronto 2
Daisy Manufacturing Co. of Canada Ltd.	185 King St., Preston
Dee & Cee Toy Co. Ltd.	301 King St. E., Toronto 2
The Easybuilt Model Aeroplane Co.	43 Orchard View Blvd., Oshawa
Eldon Industries of Canada Limited	1315 Lawrence Avenue, Don Mills
Elliott W.A. Co.	324 King St. W., Toronto 2B
Enterprise Toy Products Ltd.	121-123 Ossington Ave., Toronto 3
G.M.T. Toys Ltd.	99 Tycos Drive, Toronto 10
Ganz Bros., Toys Ltd.	39 Orfus Road Toronto 19
Gregg Model Aircraft Supply Co.	123 Niagara St., Toronto 2B
Harvey Bernard	On Highway 124, McKeller Township
Henry M.A. Limited	James St., Dundas
Ingram Adam Mfg. Co.	1261 McDougall, Windsor
Kelton Corporation Limited	276 Davenport Road, Toronto
Kenner Products (Canada) Limited	24 Front St. W., Toronto 2
Kent Metal Industries (Tilbury) Ltd.	Young St. E., Tilbury
Lido (Canada) Reg'd	125 Tycos Drive, Toronto 10
Majestic Toy Ltd.	183 Dovercourt Road, Toronto 3
Mantel Manufacturing Co.	58 Duke Street, Toronto 2
Margon Corporation	68 Broadview Avenue, Toronto 8
Marif Louis Co. of Canada Limited	21 Dundas Square, Toronto 2
Mercury Tool & Stamping Ltd.	5 Racine Road, Rexdale
Milner Leather Products Ltd.	100 Richmond St. E., Toronto 1
Munro Games Limited	2422 Fairview Ave., Burlington
Nicky's Toy Mfg. Co.	21 Apex Road, Toronto, 19
Ogilvie, Esther	17 Withrow Ave., Toronto 6
Palmer-Pann Corp. (Canadian Division)	945 Prince Road, Windsor
Parker Bros. Games Ltd.	122 Cartwright Ave., Toronto 19
"Pax" Manufacturing Co. Ltd.	1121 Queen St. E., Toronto 8
Pre-School Mfg. Ltd.	29 Colbourne St., Chatham
Preston Manufacturing Limited	185 King Street East, Preston
Princess Toy Mfg. Co.	183 Bathurst St., Toronto 2B
Pullan Earle Co. Ltd.	469 King St. West, Toronto 2B
Regal Toy Limited	35 Tutland Road, Toronto 18
Reliable Toy Co. Ltd.	258 Carlaw Ave., Toronto 8
Renee's Toy Manufacturing	380 Adelaide St. W., Toronto 2B
Riddell Sign Service	66 Lyons Ave., Brantford
Standard Crafts (Preston) Ltd.	185 King Street East, Preston
Star Doll Mfg. Co. Ltd.	48 Abell St., Toronto 3
Sylva Products	70 Dundas St., Brantford
Unique Toy Co. Ltd.	50 Lombard St. Toronto 9
Vega Metcraft Limited	No. 1 Adam, Kitchener
Vollans Industries Limited	Andrew St. S., Orillia
Winston Plastics Ltd.	375 Danforth Rd., Scarborough
Wis Ton Mfg. Co. Ltd.	156 Sussex News, Toronto 4
Manitoba:	
Mar-Velle Toy & Doll Co.	360 Princess St., Winnipeg
Winnipeg Toy Co.	613 Alverstone St., Winnipeg 10
Alberta:	
Marpok Industries Ltd.	12105-120th Ave., Edmonton
British Columbia:	
The Blair Toy & Novelty Works	85 Burnside Rd. W., Victoria
McFee Manufacturing	12145-66th Ave., North Surrey
Palmer R.L. Mfg. Ltd.	RR1 Westsyde, Kamloops
Ryco Sales Ltd.	Room 405-402 West Pender, St. Vancouver 3

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1962 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and special reports on geographical distribution and on type of ownership and size of establishments.

With the publication of the results of the 1962 Census of Manufactures, the Bureau has completed a major revision in the classification and concept of its annual census of manufacturing establishments. Because of its size and complexity, this project had to be carried out in three stages. The first stage was the change in classification and the results of the 1960 Census, together with the re-compilation of the 1957, 1958 and 1959 Censuses were published in the 1960 reports on the basis of the revised Standard Industrial Classification. This part of the project was confined entirely to a re-coding of existing reporting units. The second stage consisted of the implementation of the new definition of the reporting unit i.e. "establishment" as it applied to **manufacturing activities** of manufacturing establishments (See following note on "Establishment"). Results of the 1961 Census reflected this change in concept and, in order to provide comparability of data for recent years, the 1961 reports contained principal statistics on the basis of the new establishment definition for years back to 1957.

The third stage which was the extension of the definition of the establishment to cover **total activities** of manufacturing establishments is reflected in the statistics for 1961 and 1962 contained in this report. This full implementation of the new definition of the establishment has resulted in an extension of the data to non-manufacturing activities of manufacturing establishments and in additional changes in the 1961 statistics of manufacturing activities. Statistics on manufacturing activities will continue to be shown separately as in the past but, beginning with 1961, data on all operations (total activity) of manufacturing establishments will also be given. By definition "total activity" relates to all operational data and excludes such non-operational items as rent, interest and dividends. In addition, statistics on man-hours paid will be included as part of the regular series of industry statistics. For many industries, adjustments and revisions were made to the 1961 data on **manufacturing activities** which were published during the second stage to bring them in line with reporting procedures followed in the 1962 Census and to reflect the final application of the new concept. The 1961 statistics on manufacturing activities contained in this report are thus not entirely comparable with those published in the 1961 reports. However, the 1961 statistics are shown in this publication in both their original and revised forms in order to provide a link with the immediate past. A more complete account of recent changes and additions and brief descriptions of the principal industry statistics are given in following sections of these notes.

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures and applied to the results of the 1957, 1958 and 1959 censuses provides for a breakdown of the manufacturing universe into 140 industries arranged in 20 major groups. Custom Tailoring Shops is the only industry class in the Manufacturing Industries Division of the classification which is not covered in the annual Census of Manufactures. It is surveyed as part of the Decennial Census of Merchandising and Service Establishments. Of the 140 "three-digit" industry classes in the Manufacturing Industries Division, 21 are further broken down into 67 "four-digit" sub-classes. With the exception of the Wood Preservation and Sound Recording industries, the figures for which are at present confidential and have to be included with those of related industries, the statistics for all of the "four-digit" sub-classes are published regularly. Thus, at the Canada level, principal statistics are compiled for 183 industries. These cannot all be published separately by province because of the confidential nature of the data in certain provinces.

Reporting establishments are classified or allotted to specific industries in the classification system on the basis of the value of principal products made or shipped. In general, establishments primarily engaged in repair work (Shoe Repair Shops, Motor Vehicle Repair Shops etc.) are not included in manufacturing industries. Exceptions are establishments primarily engaged in furniture, ship, boat, aircraft and railroad rolling stock repairs which are classified to the manufacturing industries producing the products involved. Establishments primarily engaged in assembling parts into complete units have always been included in manufacturing industries.

Full details concerning the revised classification system are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics.

It should be noted that two new industries (Poultry Processors and Dental Laboratories) and three new groups of establishments (book publishers in the Publishing Industry, electro-plating establishments in the Metal Stamping, Pressing and Coating Industry and prescription branches in the Ophthalmic Goods Manufacturers Industry) have been included in the 1961 (revised) and 1962 Census statistics and will continue to be included thereafter. They were surveyed for the first time in the 1960 Census (1961 Census in the case of prescription branches) in line with the revised classification but, since they did not represent new production, they were removed from the 1960 and 1961 compilations published in the 1961 Census reports in order to provide complete comparability of data over the period 1957-61. Statistics for this period are repeated in the 1962 reports to supply a link with the revised 1961 data and the new 1962 statistics.

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. The majority of establishments are firms, but many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described below.

Beginning with the 1961 Census of Manufactures the establishment is defined as follows:

"The smallest unit which is a separate operating entity capable of reporting all 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,
- Inventories,
- Shipments or sales."

Following is a description of the main features of the new establishment concept introduced in the 1961 Census, how they differ from those of the old "activity" concept and the steps taken to correct for breaks in continuity.

(a) The establishment is to be distinguished from smaller subdivisions or departments which do not have records that permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in activities which were classifiable to different industries. Beginning with 1961, separate reports for such activities are required only in cases where accounting records can provide the necessary input and output elements of principal statistics. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.¹

(b) A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were primarily engaged in manufacturing. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics.¹

Again, adjustments were made to reflect the removal of such reporting units for the period 1957-60. These reporting units are now listed as establishments in other Bureau surveys, such as Wholesale Trade, Construction etc. This has resulted in a somewhat smaller universe represented by the Census of Manufactures. In terms of overall 1960 Census results, the number of establishments transferred to other industries totalled 2,786 or 8% but these represented only 0.7% of total employment and of total value of shipments of manufactured products. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed by the Industry Division for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

(c) A manufacturing establishment may be, and often is, engaged in other activities in addition to its principal manufacturing activity. Prior to 1961 the main emphasis in the Census of Manufactures was on manufacturing activity. Beginning with 1961, each establishment reports on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on different activities (manufacturing, trading in goods not of own manufacture, construction by own labour force, revenue from services etc.) are requested separately. However, the statistics published in the 1961 reports were confined to manufacturing activity only in order to maintain comparability with previous years and to permit a more thorough audit of the new data. The 1962 reports contain principal statistics on total activities of manufacturing establishments for 1961 and 1962 with the main elements of manufacturing activity shown separately as in the past. It should be noted that the statistics for separate activities are not completely consistent. Some respondents cannot distinguish in their records materials, shipments and inventories relating to own manufacturing activities from those relating to goods not of their own manufacture or to other activities and can report operational data in total only under manufacturing activity. This situation has always existed, however, and is not considered important enough to invalidate the use of the data in the measurement of manufacturing as an "activity". The values assigned by the respondent to materials and shipments of own manufactured goods include costs in varying degrees that relate to internal (to the establishment) transportation, warehousing and selling activities, but it is not possible to make adjustments to arrive at a uniform valuation for manufacturing activity only; although valuation at the establishment "boundary" must be accepted, the items valued under manufacturing activities still relate, in most cases, to "goods of own manufacture". In the case of employment only data on manufacturing production workers and manufacturing man-hours can be assigned, in total, to manufacturing activity; administrative and office employees can seldom be allocated to separate activities.

¹ Most of these adjustments were made when the results of the 1961 Census were being compiled. Since publication of these results in the 1961 reports additional adjustments were made to the 1961 data, as noted earlier, and these are reflected, where applicable, in the revised 1961 statistics contained in this report.

Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level, and for studies or statistical measures requiring accurate co-ordinated data, the "total" statistics should be used.

(d) Additional changes resulted from intensive editing and follow-up consistent with the introduction of the new concept. An example of such changes is the provision for the elimination, in total, of sales taxes and outward transportation charges from value of shipments. Prior to 1961, although the value of shipments for each product was requested excluding taxes and transportation charges, no allowance had been made for the reporting of these items in total when the respondents' records did not permit their deduction from the values of the individual products. Another example is a change in the valuation of shipments where, prior to 1961, a manufacturing company operating warehouses or sales outlets was reporting value of shipments in terms of an estimated manufacturer's price in accordance with the old activity concept, even though his records were not kept on this basis. Since the accounting boundary in such cases extends to distribution operations, the respondent was instructed in 1961 to report shipments at the final selling price in order to obtain more realistic and accurate data.² Adjustments were made to the value of shipments for the period 1957-60 to reflect such changes and maintain continuity of the shipments data. Since no actual data to make these corrections were available for back years, 1961 adjustment ratios were applied to the previous years for each industry affected, on the assumption that the valuation changes in 1961 applied in equal proportions to the preceding period.³

(e) The new concept also demands that inventories held apart from plant be included with plant inventories if establishment boundaries extend to warehouses and sales outlets. Prior to 1961, compilations took into account only the inventories held at plant. In this case, however, most of the missing data were available from supplementary questions in the Annual Census and from the Monthly Inventories and Shipments Survey and actual corrections could be made for previous years.

² Some manufacturing firms operate sales branches or selling warehouses as separate sales establishments for which complete accounting records of receipts, expenses, employment and sales are maintained. In such cases the plants, in effect, "sell" to the sales outlets on much the same basis as they would to independent buyers. The value of plant shipments is based on factory prices and the "boundary" of the manufacturing establishment does not extend beyond the plant. The sales outlets in such cases constitute separate sales establishments and are classified to wholesale or retail trade. Some sales outlets of manufacturing firms, although they physically handle products of the plants, do not maintain separate accounts and are generally treated for statistical purposes as extensions of manufacturing operations. Special arrangements were made for separate reporting in a few cases where the treatment of such outlets as manufacturing extensions would seriously affect the significance of statistics for particular manufacturing and trade industries.

³ See footnote 1.

(f) Prior to 1961 the Census of Manufactures did not have complete coverage of head and administrative offices and had never surveyed separate sales offices, warehouses or laboratories operated by manufacturing firms. Beginning with the 1961 survey, complete coverage of these auxiliary units was effected. In the past the employment and salaries and wages of those head and administrative offices that were surveyed were either coded in total to the industry in which the greatest portion of the company's manufacturing activities was classified or else, in the case of certain large multi-unit firms with establishments in several industries, were pro-rated among the different industries involved. In the original 1961 statistics published in 1961 reports, the same coverage and treatment of head offices was applied to maintain comparability over the 1957-61 period. Beginning with the revised 1961 statistics, all head offices and auxiliary units are covered and are processed according to the methods described below.

1. Single-Establishment Companies

In the great majority of cases central administrative and executive personnel of companies consisting only of one establishment are generally located at the site of the manufacturing plant and are automatically included in the plant reports. Where head offices and auxiliary units are geographically separate from plant locations and employ a sizeable number of workers they are surveyed on special questionnaires.

Separately located head offices, sales offices, administrative offices and other separate auxiliary units (laboratories, warehouses, etc.) do not usually constitute separate establishments⁴ for purposes of industry statistics since they do not normally generate operational revenues but give rise only to costs of operation (mainly salaries and wages) which make up part of the selling price of manufactured products and which are thus included in the value of shipments or sales. Where such units belong to single-establishment companies, they will be considered as extensions of the establishment's boundaries and their operations consolidated with the establishment's total activity.

2. Multi-Establishment Companies

In the case of companies with more than one establishment the following rules are applied:

(i) Where all the establishments of a company are classified to the same (three-digit) industry, the head office and other auxiliary units are coded to that same industry.

(ii) Where the establishments of a company are not all classified to the same (three-digit) industry but are coded to different industries, or industries in different industry groups or even different divisions

⁴ See footnote 2 for exceptions.

of the Standard Industrial Classification, the inclusion of data for head office and auxiliary units in any one of the (three-digit) industries concerned would distort the relationship between items of principal statistics. In such cases, the auxiliary units are coded at the group (two-digit) level in tabulations of industry statistics. Where multi-establishment companies cut across group or major division lines of the Classification, the head office and auxiliary units will be coded to the (two-digit) industry group in which the major part of the company's operations are classified. Although this may result in some distortion of (two-digit) industry group statistics it will eliminate distortion within groups as it will leave statistics at the (three-digit) industry level free of these company-wide data.

Period Covered

Respondents are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. However, the data on employees, salaries, wages and man-hours are requested on a calendar year basis in all cases.

When establishments are operated for only a portion of a year, a report is required covering the period of operation.

Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in 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. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

Number of Establishments

The number of establishments represents the number of operating units (accounting entities as per the new definition of the establishment) for which separate reports are submitted. Head offices located apart from establishments and which are surveyed separately and separate sales and administrative auxiliaries that are treated as extensions of manufacturing activities are not included in the establishment count. However, the operational statistics (employment, salaries etc.) of such auxiliary units which are coded at the "three-digit"

level are included in the principal statistics of industries coded at the same level; those units coded at the "two-digit" level are included with the statistics for groups of industries.

Employees

As noted above, the number of working owners and partners are excluded from the number of employees, beginning with the revised 1961 statistics. This change brings the definition of "employees" in the Census of Manufactures in line with that of "employees" in the Bureau's monthly Employment Survey and with that of "paid workers" in the Bureau's Labour Force Survey. For purposes of historical comparisons, the number of working owners and partners should be added to total employees (beginning with the revised 1961 data) in order to correspond with the figure of "total employees" published in previous reports concerned with the Annual Census of Manufactures.

In addition to production and related workers engaged in manufacturing activities, total employees include administrative, office, sales and distribution workers as well as any production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment by its own employees (when these are treated as a separate work force) or logging (mostly in connection with sawmills or planing mills). Number of employees represents as closely as possible equivalent annual full-time employment. Adjustments are made when reported figures indicate the existence of part-time or seasonal employment.

Administrative and office employees include all executive and supervisory officials such as presidents, vice-presidents, controllers, secretaries, treasurers etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical etc. Sales and distribution workers include office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truck drivers and their helpers, etc. They exclude persons working on a commission basis who are not considered regular employees.

Production and related workers in manufacturing activities include, in addition to those engaged in processing and assembling, those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees in related activities such as maintenance, repair, janitorial and watchman services. Working foremen doing similar work to that of employees they supervise are also included. Production workers employed in non-manufacturing activities such as construction undertaken for the use of the establishment, logging

employees or outside piece-workers employed in certain industries are excluded from the number of production and related workers but are part of the total number of employees in those industries.

Production and related workers 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 twelve. This procedure is followed even though the plant did not operate in all months in order to derive equivalent annual full-time employment. The numbers are somewhat affected by turn over, in that employment is overstated when an employee changes employment within the same industry during a pay period. Other categories of workers are reported in the form of annual averages. Figures on employment and man-hours refer to the calendar year whether or not some establishments report other data on a financial year basis.

Man-hours of production and related workers in manufacturing activities 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.

Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, **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 workers' earnings. Payments for overtime are included.

Wages refer to amounts paid to production and related workers engaged in manufacturing operations as defined above. Salaries refer to amounts paid to all other categories of employees including relatively small numbers of production workers engaged in construction and extractive operations or who are employed as outside piece-workers. Figures on salaries and wages refer to the calendar year whether or not some establishments reported other data on a financial year basis.

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.

Materials and Supplies

(a) Used in 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. The statistics represent only commodity items or physical goods (costs 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. Respondents are required to report materials and supplies **used** not **purchased**. 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) Purchases for resale as such. Figures represent the 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.

(c) 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. Value of construction and repair work done by outside contractors is 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 medical supplies, laboratory supplies etc.

Shipments

In general the figures represent revenue from all production, sales, services and related activities of reporting establishments. Non-operating revenues such as rent, interest and dividends and the sale of used fixed assets are excluded.

(a) 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 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. (See notes on "Establishment").

Such shipments are net of returned goods, and value figures at the establishment exclude discounts, returns, allowances, sales taxes and excise duties, returnable containers, and charges for outward transportation by common or contract carriers. Transportation or delivery expenses incurred by the reporting establishments' own carriers are not deducted.

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 form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

In four industries, viz. Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair, where work on principal products extends over a relatively long period, the value of production, rather than the value of shipments, is recorded. For these industries value of production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on units delivered in the year under review. Adjustments to the value of shipments are also made for firms in these industries and in some other industries which operate on the basis of progress payments. The latter are treated as sales and not as inventory, so that for firms which use a progress payments account, an adjustment to the value of shipments is made for the net change in this account during the year.

(b) Shipments of goods not of own manufacture

These figures represent the net selling value at the establishment (less discounts, returns, allowances, sales taxes and excise duties 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 goods on a rental basis value of shipments represents the book value of such goods. All sales of consignment goods from other countries are included.

(c) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs and alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishments' 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 establishments' own employees, such as revenue from goods produced for rental (the book value of such goods are included as part of factory shipments), servicing revenues, commissions on sales (when not included in value of sales), revenue from company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishments' 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 inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. 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. Inventory owned abroad has already been reported as shipments and is excluded.

(b) Inventory of goods purchased for re-sale

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by reporting establishments and held at the plants and at any warehouses or selling outlets which are treated as extensions of establishments. Inventory owned in transit in Canada or on consignment in Canada is included.

Because of changes in classification, the receipt of revised data, the inclusion of new establishments or the removal of old establishments which did not operate during the latest year, the opening inventory for the latest year does not necessarily coincide with the closing inventory of the preceding year.

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 total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost 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, adjusted for changes in the value of inventories of goods purchased for re-sale.

"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 in 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.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking for only a limited amount of detail. For purposes of publication, missing data were estimated on the basis of appropriate ratios. Beginning with the 1959 census, the general limit for short forms was raised from \$50,000 (the limit used since 1949) to \$100,000 value of shipments and a new medium form was used. This form is a shortened version of the long form in that some of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the

short and medium forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

Prior to 1961, the short form was limited to a question on the principal items of factory shipments. In the 1961 and 1962 censuses, in addition to the question on shipments of goods of own manufacture, general questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity and inventories, were estimated by using ratios based on the change in the value of shipments reported in 1961 and 1962. This was done to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportions of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

Beginning with the 1963 census, general questions on total purchases of materials, fuel and electricity and on total inventory were added on the short forms. The two questions, however, were designed so that the data can be easily derived from respondents' regular accounting records. This will permit a complete tabulation of principal statistics without the necessity of estimating missing items and will result in increased accuracy for rural area statistics where small firms account for a relatively important part of industrial output.

The addition of extra questions on the short form in recent years has also permitted an increase in the cut-off limits for short forms in many industries. This has meant that many more firms are now receiving the short form instead of the long or medium form. It has also resulted in the withdrawal of the medium form in a number of industries, thus further simplifying collection and tabulation procedures.

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