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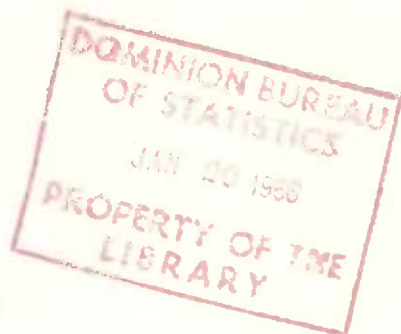
ANNUAL



SYNTHETIC TEXTILE MILLS

1963

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PUBLICATIONS

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A - Annual

Q - Quarterly

M - Monthly

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SYNTHETIC TEXTILE MILLS

1963

In terms of the revised Standard Industrial Classification and the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in manufacturing yarns and broad woven goods of synthetic textile fibres, including glass fibres. This industry includes establishments primarily engaged in manufacturing yarns and broad woven goods of natural silk. It also includes establishments engaged in the extrusion of synthetic textile filaments".

The Synthetic Textile Mills industry has two branches, to the first of which belong the producers of synthetic filament yarns and of staple fibres. These firms are too few and their activities too varied to permit a separate, detailed statistical analysis without divulging particulars of individual establishments. The production of textile filament yarns by the seven firms reporting this commodity in 1963 was 82,473,067 pounds compared to the figure of 62,104,004 pounds in 1962. The second branch of the industry consists of establishments manufacturing spun yarn and fabrics. This report covers the activities of the whole industry, i.e. those of the two branches on a combined basis.

As can be seen from most tables in this report, the activity within the industry in 1963 was higher than in 1962. Tables 6 and 7 present, respectively, the materials used in manufacturing and the shipments of goods of own manufacture by the industry in 1962 and 1963. However, the information given in the latter table has been somewhat abridged in order to present in Table 8 A the important data covering the shipments of broadwoven synthetic fabrics by all industries for both 1962 and 1963. These all-industry shipments are further broken by type and construction for these two years in Table 8 B. Tables 9 A and 9 B present, respectively, as detailed information as possible covering the yarn spun in 1963 by this industry and by all the important primary textile industries.

A list of the establishments classified to the industry in the 1963 survey will be found at the end of this report.

SYMBOLS

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

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

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

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000			\$'000	
1961													
Totals	57	12,214	27,059	39,957	5,056	121,993	250,478 ^f	121,614 ^f	x	x	15,910	58,826	122,367 ^f
1962													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1												
New Brunswick	-	8,890	18,904	25,394	2,405	85,094	154,081	88,750	-	-	11,020	37,500	69,480
Quebec	39												
Ontario	21												
Manitoba	-												
Saskatchewan	-	4,444	9,603	18,777	2,914	55,872	129,595 ^f	71,987 ^f	-	-	5,761	26,525	72,107 ^f
Alberta	1												
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676 ^f	140,737 ^f	-	-	16,781	64,025	141,587 ^f
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	38	9,382	20,951	29,659	2,881	103,237	184,765	81,744	-	-	11,747	41,703	82,071
Ontario	20	x	x	x	x	x	x	x	-	-	x	x	x
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	1	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	4	34	81	94	7	192	442	239	-	-	41	139	239
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	9	209	436	592	30	1,860	3,431	1,508	-	-	235	757	1,510
500,000 " 999,999	9	631	1,342	1,549	193	3,812	6,970	3,116	-	-	723	2,043	3,238
1,000,000 " 4,999,999	27	4,005	8,938	11,238	846	44,552	72,049	27,118	-	-	4,621	14,281	28,440
5,000,000 and over	13	8,255	17,709	30,698	4,244	90,551	200,783	108,756	-	-	10,588	42,841	108,351
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	573	3,963	(192)
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676	140,737	-	-	16,781	64,025	141,587
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 " 499,999	12	330	759	978	112	2,319	4,627	2,000	-	-	388	1,338	2,025
500,000 " 999,999	5	490	1,036	1,229	109	2,018	4,253	2,223	-	-	541	1,452	2,217
1,000,000 " 4,999,999	28	3,808	8,433	11,611	824	45,884	74,792	29,371	-	-	4,469	15,078	29,388
5,000,000 and over	15	9,346	20,659	36,383	4,756	114,837	248,737	131,392	-	-	11,908	49,891	131,776
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	456	3,098	(196)
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1962													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	4	26	57	69	8	352	512	153	-	-	31	107	152
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	9	280	629	780	67	2,422	4,002	1,486	-	-	310	912	1,487
500,000 " 999,999	10	497	1,075	1,256	164	8,499	11,720	3,350	-	-	593	1,834	4,520
1,000,000 " 4,999,999	18	1,962	4,396	5,714	442	22,791	36,420	13,436	-	-	2,256	7,127	13,425
5,000,000 and over	14	3,799	8,212	11,200	917	41,382	69,312	27,135	-	-	4,525	14,759	27,372
Head offices, sales offices and auxiliary units	7	6,570	14,138	25,151	3,721	65,521	161,710	95,176	-	-	8,493	35,322	94,822
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	573	3,963	(192)
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676	140,737	-	-	16,781	64,025	141,587
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 " 199,999	8	194	444	579	57	1,739	3,033	982	-	-	224	735	1,012
200,000 " 499,999	13	676	1,490	1,801	187	7,218	11,778	4,451	-	-	795	2,536	4,457
500,000 " 999,999	8	756	1,649	2,382	178	9,341	14,978	5,652	-	-	891	3,089	5,622
1,000,000 " 4,999,999	24	5,234	11,435	16,530	1,288	68,195	109,635	41,132	-	-	6,195	21,379	41,758
5,000,000 and over	7	7,114	15,871	28,910	4,092	78,564	192,985	112,771	-	-	9,201	40,021	112,556
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	456	3,098	(196)
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
1962													
Under \$10,000													
\$ 10,000 to \$ 24,999	4	26	57	69	8	352	512	153	-	-	31	107	152
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999	9	280	629	780	67	2,422	4,002	1,488	-	-	310	912	1,487
200,000 " 499,999	9	415	886	1,017	123	4,207	7,115	2,873	-	-	485	1,491	2,991
500,000 " 999,999	18	1,962	4,396	5,714	442	22,791	36,420	13,436	-	-	2,256	7,127	13,425
1,000,000 " 4,999,999	15	3,881	8,401	11,439	958	45,675	73,916	27,612	-	-	4,633	15,102	28,901
5,000,000 and over	7	6,570	14,138	25,151	3,721	65,521	161,710 ^F	95,176 ^F	-	-	8,493	35,321	94,822 ^F
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	573	3,963	(192)
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676^F	140,737^F	-	-	16,781	64,025	141,587^F
1963													
Under \$10,000													
\$ 10,000 to \$ 24,999													
25,000 " 49,999													
50,000 " 99,999	8	194	444	579	57	1,739	3,033	982	-	-	224	735	1,012
100,000 " 199,999													
200,000 " 499,999		13	676	1,490	1,801	187	7,218	11,778	4,451	-	-	795	2,536	4,457
500,000 " 999,999	9	844	1,847	2,641	197	10,363	16,974	6,656	-	-	1,006	3,518	6,619
1,000,000 " 4,999,999	23	5,146	11,236	16,269	1,268	67,173	107,640	40,127	-	-	6,080	20,950	40,762
5,000,000 and over	7	7,114	15,871	28,910	4,092	78,564	192,985	112,771	-	-	9,201	40,021	112,556
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	456	3,098	(196)
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.	'000	\$'000					'000	\$'000		'000			
1962													
Under 5 employed													
5 - 14 employed	4	26	57	69	8	352	512	153	-	-	31	107	152
15 - 49 " "													
50 - 99 " "													
100 - 199 " "	11	285	603	832	47	2,623	4,742	2,071	-	-	317	1,027	2,073
200 - 499 " "	14	859	1,938	2,321	253	12,404	19,621	7,016	-	-	990	3,051	7,154
500 employed and over	12	1,320	2,969	3,967	290	20,153	30,734	11,061	-	-	1,550	5,147	12,178
Head offices, sales offices and auxiliary units	12	2,897	6,472	8,629	789	34,641	56,347	20,783	-	-	3,446	11,376	20,932
	9	9,747	16,469	28,353	3,931	70,794	171,719 ^F	99,652 ^F	-	-	9,874	39,353	99,289 ^F
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676^F	140,737^F	-	-	16,781	64,025	141,587^F
1963													
Under 5 employed													
5 - 14 employed													
15 - 49 " "	12	294	665	947	48	4,675	7,604	2,889	-	-	329	1,196	2,881
50 - 99 " "													
100 - 199 " "		16	976	2,226	2,941	371	15,673	26,147	9,972	-	-	1,205	4,125	9,907
200 - 499 " "	11	1,244	2,773	4,073	277	20,491	32,629	12,080	-	-	1,499	5,608	12,719
500 employed and over	13	3,495	7,814	11,155	881	48,718	75,962	27,858	-	-	4,024	13,870	27,882
Head offices, sales offices and auxiliary units	8	7,965	17,409	31,084	4,225	75,501	190,067	112,188	-	-	10,249	42,960	112,017
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

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

Type of organization	Estab-lish-ments	Manufacturing activity						Total activity					
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
No.		'000			\$'000			\$'000			\$'000		
1962													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	
Incorporated companies	62	13,134	28,507	44,171	5,318	140,967	283,676 ^f	140,737 ^f	...	...	16,208	60,061	141,778 ^f
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	573	3,963	(192)
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676^f	140,737^f	-	-	16,781	64,025	141,587^f
1963													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	...	...	17,306	67,759	165,406
Cooperatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	456	3,098	(196)
Totals	60	13,974	30,888	50,202	5,801	165,057	332,409	164,987	-	-	17,762	70,857	165,210

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	283,676 ^f	332,409	11,654	12,891	295,330 ^f	345,300
Inventories - Goods of own manufacture:						
Add closing - Goods in process	15,634	16,782	...	...	15,634	16,782
Finished goods	20,100	22,335	...	...	20,100	22,335
Less opening - Goods in process	13,029	15,313	...	...	13,029	15,313
Finished goods	19,359	20,368	...	...	19,359	20,368
2. Net inventory change	3,346	3,436	...	...	3,346	3,436
3. Gross output (1+2)	287,022 ^f	335,845	11,654	12,891	298,676 ^f	348,736
Input						
4. Purchases of goods not of own manufacture .....	...	...	10,208	11,483	10,208	11,483
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	1,374	2,036	1,374	2,036
Less closing .....	...	...	2,015	2,515	2,015	2,515
5. Cost of goods sold (not of own manufacture) .....	...	...	9,567	11,004	9,567	11,004
6. Materials, supplies, components and semi-processed goods	140,967	165,057	1,237	1,665	142,204	166,722
7. Fuel and electricity	5,318	5,801	...	...	5,318	5,801
8. Gross input (5+6+7)	146,285	170,858	10,804	12,669	157,069	183,527
Census value added (3-8)	140,737^f	164,987	850	222	141,587^f	165,210

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Admini- trative and office		Sales and distribution		Total employees		Production and related workers		Admini- strative and office	Sales and distribution	Total salaries and wages
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1962															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia															
New Brunswick	6,831	1,858	1	3	1,527	680	101	18	8,461	2,559	25,394	6	10,886	1,214	37,500
Quebec															
Ontario															
Manitoba	3,521	723	30	-	923	266	74	24	4,548	1,213	18,777	159	6,972	617	26,525
Saskatchewan															
Alberta															
British Columbia															
Yukon and Northwest Territories															
Totals	10,353	2,781	31	3	2,450	946	175	42	13,009	3,772	44,171	165	17,858	1,830	64,025
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick															
Quebec	7,286	2,096	-	4	1,615	652	86	8	8,987	2,780	29,659	7	11,002	1,036	41,703
Ontario	x	x	x	-	x	x	x	x	x	x	x	x	x	x	x
Manitoba															
Saskatchewan															
Alberta	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
British Columbia															
Yukon and Northwest Territories															
Totals	10,916	3,058	59	4	2,562	926	193	44	13,730	4,032	50,202	322	18,410	1,924	70,857

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

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	10,068	2,705	10,576	2,967
February	10,225	2,745	10,728	2,991
March	10,188	2,770	10,687	3,026
April	10,212	2,768	10,718	3,063
May	10,281	2,757	10,780	3,069
June	10,232	2,694	10,905	3,079
July	10,275	2,691	10,506	2,850
August	10,405	2,800	11,088	3,060
September	10,481	2,885	11,024	3,069
October	10,531	2,889	11,139	3,072
November	10,551	2,858	11,297	3,108
December	10,528	2,805	11,437	3,084
Average for establishments reporting monthly detail (collected only for large establishments) ..	10,353	2,781	10,916	3,058
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments	10,353	2,781	10,916	3,058

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	-	-	-	-	-	-
Quebec	10,897	11,721	12,254	34,873	1,208	36,081
Ontario	x	x	x	x	x	x
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	16,665	15,313	20,368	52,346	2,036	54,381
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	-	-	-	-	-	-
Quebec	12,898	13,211	13,662	39,771	1,118	40,889
Ontario	x	x	x	x	x	x
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	20,139	16,782	22,335	59,256	2,515	61,771

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 10,383	117	12,943	55
(b) Imported	" 8,232	112	7,821	107
Sub-bituminous coal (from Alberta mines only)	" -	-	-	-
Anthracite coal	" 590	8	190	3
Lignite coal	" -	-	-	-
Coke	" -	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 49,565	19	46,178	16
Fuel oil including kerosene or coal oil	" 36,260,999	2,749	41,483,794	3,106
Wood	cord -	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 282,358	38	310,339	45
(b) Other manufactured gas	M cu.ft. -	-	1,783	2
(c) Natural gas	" 852,348	222	873,867	245
Other fuel .....	... ..	-	... ..	30
Electricity purchased	kwh. 292,795,748	2,005	327,864,248	3,156
Steam purchased .....	... ..	29	... ..	17
2. Estimate for small establishments:				
Fuel and electricity .....	... ..	19	... ..	30
3. All establishments:				
Total fuel and electricity used .....	... ..	5,318	... ..	5,801

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

Description	1962		1963	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Wool tops and broken tops (clean weight)	lb. 1,245,462	1,248	919,918	1,297
Raw cotton	" 4,634,490	1,271	4,577,218	1,354
Rayon staple fibre, tow and tops	" 21,557,871	6,888	23,284,846	7,244
Nylon staple fibre, tow and tops	" 969,304	1,056	1,636,362	1,763
Acrylic staple fibre, tow and tops	" 3,893,869	3,875	3,555,596	4,147
Polyester staple fibre, tow and tops	" 1,046,533	1,246	1,577,174	1,830
Other raw stock .....	...	8,910	...	9,823
Yarns:				
Filament yarns:				
Real silk	lb. 44,211	229	42,075	242
Acetate rayon	" 13,496,762	9,855	13,932,636	9,514
Other rayon	" 2,908,064	3,168	3,125,401	2,701
Nylon	" 9,769,076	18,091	11,282,990	20,730
Polyester	" 1,027,661	1,686	1,354,298	2,482
Glass	" 2,153,647	1,360	2,271,113	1,505
Other filament yarns	" 1,234,136	1,730	1,187,063	1,394
Spun yarns:				
Cotton:				
Natural or grey	" 4,854,010	4,185	5,385,363	4,553
Bleached or coloured	" 675,908	601	241,617	282
Rayon	" 4,292,339	2,992	5,982,856	4,381
Spun yarn wholly of man-made fibre, n.e.s.	" 2,888,318	2,168	1,574,468	1,586
Spun yarn containing wool	" 1,183,840	1,575	167,449	282
Spun yarn containing cotton and no wool	" 91,819	98	80,639	122
Other spun yarn	" 608,558	469	2,452,154	2,601
Rubber and spandex yarn	" 223,772	662	250,604	741
Broadwoven fabrics purchased for further processing:				
Fabrics, Canadian (not made by reporting plant):				
Man-made containing filament yarns	sq. yd. 528,450	284	2,065,000	942
Other man-made fabrics	" 27,500	30	491,212	1,956
Fabrics, imported:				
Man-made containing filament yarns	" 972,601	520	6,510,322	3,263
Other man-made fabrics	" 62,578	33	1,361,300	642
Silk, wool and cotton fabrics (Canadian and imported)	" 353,888	164	2,393,130	728
Oils .....	...	265	...	420
Chemicals and dyestuffs .....	...	33,048	...	38,712
All other materials and components used ¹ .....	...	18,118	...	22,597
2. Containers and other packaging materials and supplies used .....	...	2,726	...	3,264
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	8,989	...	10,048
4. Amount paid out to others for work done on materials owned by establishments .....	...	3,424	...	1,910
Totals .....	...	140,967	...	165,057

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$900,380 in 1962 and \$791,158 in 1963.

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

Description	1962		1963		
	Quantity	Value \$'000	Quantity	Value \$'000	
1. Products:					
Broadwoven synthetic fabrics:					
Pile fabrics	sq. yds.	30,968,803	29,623	37,201,331	35,420
Apparel fabrics (except pile fabrics)	"	119,420,083	64,663	132,313,467	76,612
All other fabrics ¹	"	...	10,389	...	13,162
Filament yarns (not thrown)	lb.	72,602,175	78,940	80,741,983	83,976
Filament yarns thrown:					
Stretch yarns	"	4,067,679	11,669	6,862,215	16,314
Textured yarns	"	1,667,982	4,943	2,327,552	8,696
Other thrown yarns	"	3,572,544	4,474	3,860,367	3,900
Spun yarns:					
Machine knitting	"	7,202,866	11,512	7,846,033	13,937
Weaving yarns and other yarns (except for knitting)	"	11,495,127	6,760	13,369,153	9,230
Staple fibre and tow (except cigarette tow)	"	44,464,481	21,762	50,607,224	23,076
Waste	"	5,431,449	1,075	9,200,989	2,113
All other products	"	...	35,723	...	46,978
2. Amount received in payment for work done on materials and products owned by others		...	1,314	...	1,990
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....		...	1,171 ^f	...	(992)
Total adjusted value of shipments and work done .....		...	283,676^f	...	332,409

¹ Includes broadwoven silk fabrics, broad elastic fabrics, all types; and knitted fabrics.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Broadwoven Synthetic Fabrics

Description	1962		1963 ^P		
	Quantity	Value \$'000	Quantity	Value \$'000	
Pile fabrics, furnishing and industrial fabrics and all non-apparel fabrics	sq. yds.	32,019,213	31,488	38,507,595	37,518
Apparel fabrics (except pile fabrics):					
Wholly of filament yarns:					
Fabrics over 85% viscose and/or acetate rayon		61,820,761	24,517	58,558,427	22,917
Fabrics over 85% nylon		7,758,237	6,346	9,619,580	8,144
Fabrics over 85% polyester fibre		3,445,687	2,466	5,722,654	4,556
Other fabrics wholly of filament yarns		1,819,359	1,033		
Wholly of spun yarns (may contain cotton):					
Fabrics over 85% viscose and/or acetate rayon		13,741,957	8,565	28,578,704	15,418
Other spun yarn fabrics containing 40% or more polyester fibre		2,915,846	2,563	7,897,953	6,267
Other spun yarn fabrics		3,601,369	2,078		
Mixtures of filament and spun yarns:					
Fabrics over 85% viscose and/or acetate rayon		7,177,527	4,387	1	1
Filament yarn and cotton mixture fabrics		12,076,149	8,228	12,673,922	9,227
Other mixtures of filament and spun yarn fabrics		8,202,690	6,402	14,028,794	13,075
Total shipments		154,578,793	98,051	175,587,629	117,122

¹ Confidential: Included in the same category under "Wholly of spun yarns (may contain cotton)."

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries, 1962 and 1963
B. Broadwoven Synthetic Fabrics by Type and Construction

Description	1962				
	Viscose and/or rayon acetate over 85%	Nylon and nylon mixtures	Polyester and polyester mixtures	All other	Total
	square yards				
Dress fabrics	19,771,039	828,637	608,711	7,506,989	28,715,376
Lingerie fabrics	2,063,477	297,121	1,459,444	1,077,280	4,897,322
Lining fabrics	35,407,456	93,635	31,199	10,021	35,542,311
Neckwear fabrics	1,141,000	-	-	-	1,141,000
Other apparel fabrics	24,357,273	10,735,153	4,262,179	12,908,968	52,263,573
Pile fabrics	612,847	504,246	-	2,280,876	3,397,971
Upholstery, drapery and slip cover fabrics; except pile	10,911,890	347,393	684,754	6,722,186	18,666,223
Other furnishing and industrial fabrics	3,407,664	1,129,462	270,690	5,147,203	9,955,019
Totals	97,672,646	13,935,649	7,316,977	35,653,523	154,578,785
	1963				
	square yards				
Dress fabrics	19,239,171	315,462	1,604,534	6,459,918	27,619,085
Lingerie fabrics	1,489,100	294,318	562,490	335,052	2,680,960
Lining fabrics	53,993,210	72,397	19,043	647,680	54,732,330
Neckwear fabrics	543,442	-	-	-	543,442
Other apparel fabrics	10,562,993	22,871,195	7,094,601	7,912,165	48,440,954
Pile fabrics	1,443,543	1,527,732	56,300	1,167,321	4,194,896
Upholstery, drapery and slip cover fabrics; except pile	13,818,672	1,085,557	934,192	8,041,188	23,879,609
Other furnishing and industrial fabrics	5,137,796	1,462,614	15,888	6,880,055	13,496,353
Totals	106,227,927	27,629,275	10,287,048	31,443,379	175,587,629

TABLE 9 A. Total Yarns Spun,¹ Whether Produced for Own Use, for Sale or on Commission, 1963

Description	Quantity
	lb.
Yarn spun:	
Wholly of cotton	²
Cotton blends	1,430,240
Wool mixtures	1,712,419
Wholly of one man-made fibre	19,904,151
Man-made fibre blends	1,694,630
All other yarns	20,030,530
Total	44,771,970

¹ Includes total yarn spun by the Synthetic Textile Mills industry only.
² Included in "All other yarns".

TABLE 9 B. Total Yarns Spun, in All Industries,¹ Whether Produced for Own Use, for Sale or on Commission, 1963

Description	Quantity
	lb.
Yarn spun:	
Wholly of cotton	171,879,534
Cotton blends	1,430,240
Wholly of wool	11,607,228
Wool mixtures	24,189,480
Wholly of one man-made fibre	} 24,379,928
Man-made fibre blends	
All other yarns (including mohair mixtures, alpaca, etc.)	22,295,283
Total	255,781,693

¹ Includes total yarn spun by the Cotton Yarn and Cloth Mills, the Wool Mills, the Synthetic Textile Mills, and the Hosiery and Knitting Mills industries.

TABLE 10. Mechanical Equipment, 1963

	1963 number
Spindles:	
Throwing.....	60,600
Winding.....	11,987
Doubling and twisting.....	71,239
Spinning.....	126,502
Re-drawing.....	3,344
Reeling.....	2,213
Cone winding.....	19,445
Quill winding.....	3,268
All other.....	18,844
Warpers.....	591
Cards.....	1,322
Slashers.....	42
Looms:	
40 inches and under.....	135
41 - 48 inches.....	802
49 - 56 inches.....	2,085
57 inches and over.....	3,089
Velvet.....	91
Jacquard machines in place on the above looms.....	322
Dobbies in place on the above looms.....	4,162
Braiding machines.....	5
Knitting machines.....	18
Stretchers.....	23

List of Establishments classified to This Industry, 1963

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

Name	Location
Nova Scotia:	
(Formex Co. of Canada Div.) Huyck Canada Ltd.	Kentville
Quebec:	
Associated Textiles of Canada, Limited.....	2177 Masson St., Montreal
Associated Textiles of Canada, Limited.....	St. Martin St., Louiseville
Bruck Mills Limited.....	Depot St., Cowansville
Bruck Mills Limited.....	100 Woodward Ave., Sherbrooke
Bruck Mills Limited.....	130 Grégoire St., St. Johns
Canadian Celanese Limited.....	Coaticook
Canadian Celanese Limited.....	Drummondville
Canadian Celanese Limited.....	7260 St. Urban St., Montreal
Canadian Celanese Limited.....	Sorel
Canadian Celanese Limited.....	2162 Ave., St. Laurent, Plessisville
Chemcell Fibres Ltd.	550 Normandie Blvd., St-Jean
Collins & Aikman of Canada Ltd.	Farnham
Collins & Aikman of Canada Ltd.	142 St. Peter St., St. John's
Consolidated Textiles Limited.....	Joliette
Consolidated Textiles Limited.....	St. Hyacinthe
Dionne Spinning Mills Company.....	St. George, West
Domil Ltd.	Sherbrooke
Domil Ltd.	St. Ambroise St., Montreal
Doric Textile Mills Ltd.	300 St. Louis, St. John's
Dow Chemicals of Canada Ltd.	Box 920, Richmond
Dufresne Yarns Limited.....	Sutton
Duplan of Canada Ltd.	33 - 4th St., Montmagny

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
Quebec - Concluded:	
Hafner Fabrics of Canada Ltd.....	Racine St., Granby
Iberville Drapery Mills Limited	64 - 4th Avenue, Iberville
La Salle Blanket Co. Ltd.....	Cap St-Ignace, Montmagny
Malibu Fabrics of Canada Ltd.....	353 Richmond St., Montreal
Mantex Ltd.	201 St. Louis, St-Jean
Martin Co. Ltd., J.B.	445 St. James St., St. John's
Montreal Throwing Co. Ltd.	Jacqueline St., Rigaud
Moose River Mills Ltd.	Acton Vale
Rayonese Textile Co. Ltd.	680 Mgr. Dubois, St-Jerôme
Rose-Tex Mills Ltd.....	416 St. Luc, Magog
Sauquoit Ltd.....	185 St. Hubert, Granby
Templon Spinning Mills (Canada) Ltd.	St. Henri & Laferté Sts., Drummondville
Thor Mills Limited	110 Robinson St., Granby
Walnut Products Corp.	38 Royal St., Farnham
Yarntex Corporation Ltd.....	Sutton
Zephyr Textiles Limited	St. Paul St., Ormstown
Ontario:	
Barrday Ltd.	51 Rose St., Galt
Bay Mills, Ltd.	Fourth St., Midland
Canadian Celanese Ltd.	268 Grand River Ave., Brantford
Canadian Industries Limited.....	Millhaven
Canadian Synthetic Fibres Ltd.	395 Franklin Blvd., Galt
Collins & Alkman of Canada Ltd.	500 Ontario St., Stratford
Courtaulds (Canada) Limited	Montreal Rd., Cornwall
Dawbarn (Canada) Ltd.	Prince Charles Rd., Brantford
Dominion Silk Mills Limited	2 Mark St., Toronto 2
Du Pont Co. of Canada Ltd.	Box 2100, Kingston
Fiberglas Canada Limited.....	247 York Rd., Guelph
Galtex Co. Ltd.....	St. Andrews St., Galt
Granatstein & Sons Ltd., M.	488 Wellington St. W., Toronto
La France Textiles Canada Ltd.	Dundas St., Woodstock
Lancaster Weaving Mills Ltd.....	130 Birch St., Kitchener
Lincoln Fabrics Ltd.	63 Lakeport Rd., Port Dalhousie Ward, St. Catharines
Newlands & Company Ltd.	104 Water St., Galt
North American Worsted Ltd.	89 Tycos Drive, Toronto
Resin-Tex Limited	100 Riordan St., St. Catharines
Riverside Yarns, Limited	15 Melville St., Galt
Alberta:	
(Canadian Celanese Co. Div.) Chemcell (1963) Ltd.	Box 99, Edmonton

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

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

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

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

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers - Manufacturing activity

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. Production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers - Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

(b) Non-manufacturing activities

1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

(d) Other revenue

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the



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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

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

(c) By Total activities

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