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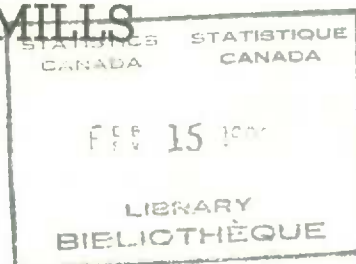
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ANNUAL



SYNTHETIC TEXTILE MILLS

1964



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PUBLICATIONS

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SYNTHETIC TEXTILE MILLS

1964

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 1964 was 102,904,990 pounds compared to the figure of 82,473,067 pounds in 1963. 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 1964 was higher than in 1963. Tables 12 and 13 present, respectively, the materials used in manufacturing and the shipments of goods of own manufacture by the industry in 1963 and 1964. However, the information given in the latter table has been somewhat abridged in order to present in Table 14A the important data covering the shipments of broadwoven synthetic fabrics by all industries for both 1963 and 1964. These all-industry shipments are further broken by type and construction for these two years in Table 14B. Tables 15 and 16 present, respectively, as detailed information as possible covering the yarn spun in 1964 by this industry and by all the important primary textile industries.

A list of the establishments classified to the industry in the 1964 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.

◊ preliminary figures.

ʳ revised figures.

x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-64

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		Employees		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	121,614	x	x	15,710 ^f	58,826	122,367
1962													
Totals	62	13,134	28,507	44,171	5,318	140,967	283,676	140,737	-	-	16,781	64,025	141,587
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	2,681	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
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	37	10,209	21,989	33,613	3,168	116,596	212,744	97,802	-	-	12,689	46,362	97,357
Ontario	21	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	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1963 and 1964

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		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
200,000 "	12	330	759	978	112	2,319	4,627	2,000	-	-	388	1,338	2,025
500,000 "	5	490	1,036	1,229	109	2,018	4,253	2,223	-	-	541	1,452	2,217
1,000,000 "	28	3,806	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
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	3	28	62	86	6	125	254	126	-	-	33	100	125
100,000 "	9	206	474	688	57	1,482	2,928	1,496	-	-	237	915	1,497
200,000 "	3	239	500	747	50	853	1,964	1,045	-	-	271	949	1,043
500,000 "	29	4,152	8,922	12,784	1,004	45,805	76,434	31,360	-	-	4,861	16,762	31,637
1,000,000 "	16	10,849	23,849	44,306	5,609	135,798	291,072	154,647	-	-	13,648	59,092	153,067
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Totals	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1963 and 1964

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		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000			'000				'000		'000		
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	8	194	444	579	57	1,739	3,033	982	-	-	224	735	1,012
200,000 "	13	676	1,490	1,801	187	7,218	11,778	4,451	-	-	795	2,536	4,457
500,000 "	8	756	1,649	2,382	176	9,341	14,978	5,652	-	-	891	3,089	5,622
1,000,000 "	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
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	5	73	166	218	34	797	1,054	226	-	-	80	250	232
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 "	5	110	248	320	18	807	1,478	649	-	-	125	396	649
200,000 "	8	389	606	1,061	80	3,716	6,473	2,786	-	-	447	1,533	2,815
500,000 "	13	1,147	2,536	3,679	316	16,550	25,840	9,659	-	-	1,369	4,932	9,711
1,000,000 "	24	6,756	14,886	22,740	1,933	86,889	138,852	53,325	-	-	7,956	29,286	53,501
5,000,000 and over	5	8,999	15,166	30,594	4,344	75,304	198,956	122,028	-	-	9,073	41,420	120,401
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Totals	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000			'000		'000		
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	
100,000 "	8	194	444	579	57	1,739	3,033	982	-	-	224	735	1,012
200,000 "	13	676	1,490	1,801	187	7,218	11,778	4,451	-	-	795	2,536	4,457
500,000 "	9	844	1,847	2,641	197	10,363	16,974	6,656	-	-	1,006	3,518	6,619
1,000,000 "	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
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	
\$ 10,000 to \$ 24,999	5	73	166	218	34	797	1,054	226	-	-	80	250	232
25,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 "	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 "	5	110	248	320	18	807	1,478	649	-	-	125	396	649
200,000 "	8	389	806	1,061	80	3,716	6,473	2,786	-	-	447	1,533	2,815
500,000 "	13	1,147	2,536	3,679	316	16,550	25,840	9,659	-	-	1,369	4,932	9,711
1,000,000 "	24	6,756	14,886	22,740	1,933	86,889	138,852	53,325	-	-	7,956	29,286	53,501
5,000,000 and over	5	6,999	15,166	30,594	4,344	75,304	198,956	122,028	-	-	9,073	41,420	120,461
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Totals	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1963 and 1964

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000			'000		'000		
1963													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	
5 - 14 employed	12	294	665	947	48	4,675	7,604	2,889	-	-	329	1,196	2,881
15 - 49 "	16	976	2,226	2,941	371	15,673	26,147	9,972	-	-	1,205	4,125	9,907
50 - 99 "	11	1,244	2,773	4,073	277	20,491	32,629	12,080	-	-	1,499	5,608	12,719
100-199 "	13	3,495	7,814	11,155	881	48,718	75,962	27,858	-	-	4,024	13,870	27,882
200-499 "	8	7,965	17,409	31,084	4,225	75,501	190,067	112,188	-	-	10,249	42,960	112,017
500 employed and over	...	...	...	...	...	...	...	...	...	...	456	3,098	(196)
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
1964													
Under 5 employed	-	-	-	-	-	-	-	-	-	-	-	-	
5 - 14 employed	14	276	634	890	69	2,387	4,297	1,935	-	-	321	1,226	1,934
15 - 49 "	13	828	1,890	2,610	245	16,557	25,694	9,450	-	-	998	3,645	9,521
50 - 99 "	9	887	1,921	2,776	230	12,187	19,402	7,205	-	-	1,041	3,707	7,167
100-199 "	16	4,008	9,716	13,601	1,193	54,941	87,239	32,996	-	-	4,665	17,401	33,133
200-499 "	9	9,475	20,646	38,735	4,989	97,990	236,021	137,086	-	-	12,025	51,838	135,613
500 employed and over	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Totals	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 6. Principal Statistics classified by Type of Organization, 1963 and 1964

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 man- ufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
No.		'000		\$'000					\$'000		\$'000		
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
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
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
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	...	...	19,050	77,817	187,369
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	431	3,252	(118)
Totals	60	15,474	33,807	58,612	6,726	184,063	372,653	188,673	-	-	19,481	81,069	187,251

TABLE 7. Calculation of Output, Input and Value Added, 1963 and 1964

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1963	1964	1963	1964	1963	1964
	\$'000					
Output						
1. Shipments and other revenue	332,409	372,653	12,891	12,703	345,300	385,356
Inventories—Goods of own manufacture:						
Add closing—Goods in process	16,782	18,594	...	...	16,782	18,594
Finished goods	22,335	27,120	...	...	22,335	27,120
Deduct opening—Goods in process	15,313	16,626	...	...	15,313	16,626
Finished goods	20,368	22,279	...	...	20,368	22,279
2. Net inventory change	3,436	6,809	...	...	3,436	6,809
3. Gross output (1+2)	335,845	379,462	12,891	12,703	348,736	392,165
Input						
4. Purchases of goods not of own manufacture .....	...	...	11,483	10,420	11,483	10,420
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	2,036	2,515	2,036	2,515
Deduct closing .....	...	...	2,515	1,136	2,515	1,136
5. Cost of goods sold (not of own manufacture) .....	...	...	11,004	11,799	11,004	11,799
6. Materials, supplies, etc.	165,057	184,063	1,665	2,325	166,722	186,388
7. Fuel and electricity	5,801	6,726	...	...	5,801	6,726
8. Gross input (5+6+7)	170,858	190,789	12,669	14,124	183,527	204,913
Value added (3-8)	164,987	188,673	222	(1,421)	163,210	187,251

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total
	Manufacturing		Other		Male	Female	Male	Female	Male	Female	Manufacturing	Other			
	Male	Female	Male	Female											
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	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	2,760	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	x	x
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	10,916	3,058	59	4	2,562	926	183	44	13,730	4,032	50,202	322	18,410	1,924	70,857
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	8,066	2,143	-	-	1,699	697	70	14	9,835	2,854	33,613	-	11,684	1,065	46,362
Ontario	x	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	x	x	x
British Columbia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	12,263	3,211	45	5	2,738	992	177	50	15,223	4,258	58,612	302	20,166	1,989	81,069

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1963 and 1964

Month	1963		1964	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	10,576	2,967	11,506	3,105
February	10,728	2,991	11,588	3,161
March	10,687	3,026	11,799	3,132
April	10,718	3,063	11,914	3,166
May	10,780	3,069	12,152	3,150
June	10,905	3,079	12,405	3,175
July	10,506	2,850	12,252	3,124
August	11,088	3,060	12,744	3,259
September	11,024	3,069	12,519	3,300
October	11,139	3,072	12,639	3,341
November	11,297	3,108	12,749	3,354
December	11,437	3,084	12,871	3,293
Averages	10,916	3,058	12,263	3,211
Establishments reporting annual averages (small establishments only)	...	...	...	...
Average for all establishments	10,916	3,058	12,263	3,211

TABLE 10. Inventories, 1964

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	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	12,419	13,049	13,878	39,146	1,118	40,264
Ontario	x	x	x	x	x	x
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	19,815	16,626	22,279	58,720	2,515	61,235
Closing:						
Newfoundland	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-
Nova Scotia	x	x	x	x	x	x
New Brunswick	-	-	-	-	-	-
Quebec	13,902	14,815	16,734	45,451	16	46,467
Ontario	x	x	x	x	x	x
Manitoba	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-
Alberta	x	x	x	x	x	x
British Columbia	-	-	-	-	-	-
Yukon and Northwest Territories	-	-	-	-	-	-
Totals	22,988	18,594	27,120	68,702	1,136	69,838

TABLE 11. Purchased Fuel and Electricity Used in Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton 4,155 ^r	55	3,582	50
(b) Imported	" 7,821	107	7,082	97
Sub-bituminous coal (from Alberta mines only)	" -	-	-	-
Anthracite coal	" 190	3	194	3
Lignite coal	" -	-	-	-
Coke	" -	-	-	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 46,178	16	42,610	17
Fuel oil including kerosene or coal oil	" 41,483,794	3,106	43,407,622	3,258
Wood	cord -	-	-	-
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 310,339	45	113,053	45
(b) Other manufactured gas	M cu. ft. 1,783	2	-	-
(c) Natural gas	" 873,867	245	1,273,968	521
Other fuel .....	... ..	30	...	-
Electricity purchased	kwh. 327,864,248	3,156	403,328,103	2,693
Steam purchased .....	... ..	17	...	22
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	... ..	20	...	21
3. All establishments:				
Total fuel and electricity used .....	... ..	5,801	... ..	6,726

TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Materials used:				
Wool tops and broken tops (clean weight)	lb.	919,918	2,167,681	1,973
Raw cotton	"	4,577,218	4,178,503	1,290
Rayon staple fibre, tow and tops	"	23,284,846	24,331,299	8,273
Nylon staple fibre, tow and tops	"	1,636,362	1,988,234	1,759
Acrylic staple fibre, tow and tops	"	3,555,596	4,845,295	5,260
Polyester staple fibre, tow and tops	"	1,577,174	2,149,738	2,356
Other raw stock .....	"	...	...	12,535
Yarns:				
Filament yarns:				
Real silk	lb.	42,075	6,908	46
Acetate rayon	"	13,932,636	7,177,839	6,986
Other rayon	"	3,125,401	4,699,786	4,132
Nylon	"	11,282,990	11,948,576	23,168
Polyester	"	1,354,298	1,191,872	2,397
Glass	"	2,271,113	2,835,647	1,898
Other filament yarns	"	1,187,063	1,692,216	2,207
Spun yarns:				
Cotton:				
Natural or grey	"	5,385,363	5,639,417	5,150
Bleached or coloured	"	241,617	184,788	225
Rayon	"	5,982,856	4,370,205	3,507
Spun yarn wholly of man-made fibre, n.e.s.	"	1,574,468	3,248,943	2,850
Spun yarn containing wool	"	167,449	312,557	748
Spun yarn containing cotton and no wool	"	80,639	475,157	525
Other spun yarn	"	2,452,154	3,754,931	3,247
Rubber and spandex yarn	"	250,604	250,286	726
Broadwoven fabrics purchased for further processing:				
Fabrics, Canadian (not made by reporting plant):				
Man-made containing filament yarns	sq. yd.	2,065,000	5,176,299	1,072
Other man-made fabrics	"	491,212	504,099	1,986
Fabrics, imported:				
Man-made containing filament yarns	"	6,510,322	6,781,593	3,440
Other man-made fabrics	"	1,361,300	1,287,351	620
Silk, wool and cotton fabrics (Canadian and imported)	"	2,393,130	2,967,058	915
Oils .....	"	...	...	498
Chemicals and dyestuffs .....	"	...	...	43,062
All other materials and components used ^d .....	"	...	...	23,041
2. Containers and other packaging materials and supplies used		3,264	...	4,021
3. Operating, maintenance and repair supplies used (excluding fuel)		10,048	...	12,065
4. Amount paid out to others for work done on materials owned by establishments		1,910	...	2,084
Totals		165,057	...	184,063

^dNo detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$791,158 in 1963 and \$857,375 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964

Description	1963		1964	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Broadwoven synthetic fabrics:				
Pile fabrics	sq. yds.	37,201,331	34,238,470	37,237
Apparel fabrics (except pile fabrics)	"	132,313,467	147,864,199	92,562
All other fabrics ^a .....	"	...	...	8,781
Filament yarns (not thrown)	lb.	80,741,983	81,421,305	90,272
Filament yarns thrown:				
Stretch yarns	"	6,862,215	12,393,682	16,098
Textured yarns	"	2,372,552	2,843,440	7,922
Other thrown yarns	"	3,860,367	5,275,765	6,326
Spun yarns:				
Machine knitting	"	7,846,033	6,375,743	13,155
Weaving yarns and other yarns (except for knitting)	"	13,369,153	16,590,218	11,798
Staple fibre and tow (except cigarette tow)	"	50,607,224	55,803,878	23,627
Waste	"	9,200,989	9,199,252	2,692
All other products .....	"	...	...	61,601
2. Amount received in payment for work done on materials and products owned by others		1,990	...	1,779
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(992)	...	(1,198)
Total adjusted value of shipments and work done		332,409	...	372,653

^aIncludes broadwoven silk fabrics, broad elastic fabrics, all types; and knitted fabrics.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Broadwoven Synthetic Fabrics

Description	1963		1964 ^P	
	Quantity	Value	Quantity	Value
	sq. yds.	\$'000	sq. yds.	\$'000
Pile fabrics, furnishing and industrial fabrics and all non-apparel fabrics	38,507,595	37,518	35,938,037	40,335
Apparel fabrics (except pile fabrics):				
Wholly of filament yarns:				
Fabrics over 85% viscose and/or acetate rayon.....	58,558,427	22,917	77,209,031	34,825
Fabrics over 85% nylon	9,619,580	8,144	10,532,563	8,668
Fabrics over 85% polyester fibre	5,722,654	4,556	6,475,855	5,724
Other fabrics wholly of filament yarns.....				
Wholly of spun yarns (may contain cotton):				
Fabrics over 85% viscose and/or acetate rayon	28,578,704	15,418	23,359,596	16,180
Other spun yarn fabrics containing 40% or more polyester fibre	7,897,953	6,267	9,892,429	7,290
Other spun yarn fabrics				
Mixtures of filament and spun yarns:				
Fabrics over 85% viscose and/or acetate rayon.....	1	1	1	1
Filament yarn and cotton mixture fabrics	12,673,922	9,227	11,833,312	9,531
Other mixtures of filament and spun yarn fabrics.....	14,028,794	13,075	12,690,301	13,198
Total shipments.....	175,587,629	117,122	187,911,124	133,751

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

B. Broadwoven Synthetic Fabrics by Type and Construction

Description	1963				
	Viscose and/or rayon acetate over 85%	Nylon and nylon mixtures	Polyester and polyester mixtures	All other	Total
	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
Description	1964				
	Viscose and/or rayon acetate over 85%	Nylon and nylon mixtures	Polyester and polyester mixtures	All other	Total
	square yards				
Dress fabrics	19,855,590	367,911	2,253,427	4,425,602	26,902,530
Lingerie fabrics.....	1,771,349	330,232	543,487	496,611	3,141,679
Lining fabrics	63,383,020	74,945	11,442	171,307	63,640,714
Neckwear fabrics.....	481,134	8,490,592	257,483	-	9,229,209
Other apparel fabrics	13,495,224	11,997,547	9,957,019	10,173,163	45,622,953
Pile fabrics	1,236,535	1,281,859	-	1,782,849	4,301,243
Upholstery, drapery and slip cover fabrics; except pile	10,822,047	614,317	362,779	7,864,051	19,663,194
Other furnishing and industrial fabrics	4,585,167	2,240,280	793,924	7,790,231	15,409,602
Totals	115,630,066	23,397,683	14,179,561	32,703,814	187,911,124

TABLE 15. Total Yarns Spun,¹ Whether Produced for Own Use, for Sale or on Commission, 1964

Description	Quantity
	'000 lb.
Yarn spun:	
Wholly of cotton.....	2
Cotton blends.....	2
Wool mixtures.....	3,561
Wholly of one man-made fibre.....	9,263
Man-made fibre blends.....	12,905
All other yarns.....	18,248
Total.....	43,976

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

TABLE 16. Total Yarns Spun, in All Industries,¹ Whether Produced for Own Use, for Sale or on Commission, 1964

Description	Quantity
	'000 lb.
Yarn spun:	
Wholly of cotton.....	190,545
Cotton blends.....	1,870
Wholly of wool.....	13,041
Wool mixtures.....	28,808
Wholly of one man-made fibre.....	32,030
Man-made fibre blends.....	
All other yarns (including mohair mixtures, alpaca, etc.).....	16,050
Total.....	282,344

¹ Includes total yarn spun by the Cotton Yarn and Stock Mills, the Wool Mills, the Synthetic Textile Mills, and the Hosiery and Knitting Mill Industries.

TABLE 17. Mechanical Equipment, 1964

	1964
	number
Spindles:	
Throwing.....	57,421
Winding.....	9,996
Doubling and twisting.....	75,884
Spinning.....	145,616
Re-drawing.....	3,361
Reeling.....	2,170
Cone winding.....	17,858
Quill winding.....	2,872
All other.....	23,400
Warpers.....	192
Cards.....	529
Slashers.....	45
Looms:	
40 inches and under.....	20
41-48 inches.....	484
49-56 inches.....	2,466
57 inches and over.....	3,400
Velvet.....	70
Jacquard machines in place on the above looms.....	337
Dobbies in place on the above looms.....	4,600
Braiding machines.....	7
Knitting machines.....	88
Stretchers.....	3

List of Establishments classified to This Industry, 1964

(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	Sorel
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
Dufresne Yarns Limited	Sutton
Duplan of Canada Ltd.	33 - 4th St., Montmagny
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, J.B. Co. Ltd.	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-Jérôme
Robinson Textiles Ltd.	25 A Monk St., Longueuil
Rose-Tex Mills Ltd.	416 St. Luc, Magog
Sauquoit Industries Ltd.	185 St. Hubert, Granby
Templon Spinning Mills (Canada) Ltd.	St. Henri & Laferté Sts., Drummondville
Textiles Phénix Ltée.	St. Hyacinthe
Thor Mills Limited	110 Robinson St., Granby
Walnut Products Corp.	38 Royal St., Farnham
Yarntex Corporation Ltd.	550 Beaumont Ave., Montreal
Zephyr Textiles Limited	St. Paul St., Ormstown
Ontario:	
Barrday Ltd.	51 Rose St., Galt
Bay Mills Ltd.	Fourth St., Midland
Bell Knit Industries Ltd.	89 Tycos Drive, Toronto
Canadian Celanese Ltd.	268 Grand River Ave., Brantford
Millhaven Fibres Ltd.	Millhaven
Canadian Synthetic Fibres Ltd.	35 Water St. S., Galt
Collins & Aikman 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, M. & Sons Ltd.	488 Wellington St. W., Toronto
La France Textiles Canada Ltd.	611 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
Pikor Fabrics	Dunnville
Pontex Ltd.	35 Water St., Galt
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 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 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 activities

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. For those establishments reporting on the "long" form, 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. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. 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.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. 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 are defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

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

(b) Non-manufacturing activities

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

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

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

chased for re-sale) and the cost of non-manufacturing 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 output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".

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