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TEXTILE DYEING AND FINISHING PLANTS 1962

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SYMBOLS

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- .. figures not available.
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- nil or zero.
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TEXTILE DYEING AND FINISHING PLANTS

1962

Under the New Establishment Concept, this industry is defined as comprising those "Establishments primarily engaged in custom dyeing and finishing of woollen and worsted goods, cotton and linen goods, silk and synthetic goods. This industry also includes establishments primarily engaged in cloth sponging and miscellaneous special finishing of textiles on a custom basis".

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

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

Tables 4 and 6, respectively, of this report, show in detail the materials and supplies used and shipments, including the value of work performed for others. It will be noted from Table 6 that, although most of the establishments classified to this industry operate solely on a custom basis, there are some which also purchase cloth on their own account; dye or finish this cloth; and then ship the finished cloth as goods of their own manufacture. This accounts for the amount of \$988,000 shown in this table under the heading of "Shipments of goods of own manufacture".

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

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

Year	Estab- lish- ments	Employees						Cost of fuel and elec- tricity ⁴	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴
		Production and related workers ⁴		Administrative and office employees ³		Total ⁴					
		Number	Wages	Number	Salaries	Number	Salaries and wages				
	No.		\$'000		\$'000		\$'000				
1957	53	1,455	4,094	312	1,575	1,767	5,568	741	3,474	13,647	9,484
1958	53	1,385	4,133	379	1,786	1,764	5,920	814	3,995	14,354	9,484
1959	52	1,464	4,549	353	1,742	1,817	6,291	772	4,291	15,440	10,389
1960	53	1,552	4,865	353	1,854	1,905	6,719	799	4,658	16,888	11,478
1961	54	1,626	5,240	343	2,059	1,969	7,300	850	5,614	18,520	12,026

See footnotes following Table 3 A.

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

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Quebec	35	1,260	2,909	4,085	654	4,054	14,029	9,289	8	29	1,543	5,771	9,281
Ontario	18	363	830	1,155	167	1,562	4,491	2,765	8	36	441	1,623	2,740
British Columbia	1												
Totals	54	1,623	3,739	5,240	821	5,615	18,520	12,054	16	66	1,984	7,394	12,021
1962													
Quebec	37	1,340	3,172	4,482	672	4,678	17,371	12,073	6	34	1,624	6,122	12,085
Ontario	20	425	971	1,348	190	2,235	5,946	3,496	7	33	501	1,821	3,479
British Columbia	1												
Totals	58	1,765	4,142	5,830	863	6,912	23,317	15,569	13	67	2,125	7,943	15,514

See Table 2 and footnotes following Table 3 A.

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

Size group	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manufacture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Under \$10,000	3	2	4	3	1	4	44	40	8	31	2	3	40
\$ 10,000 to \$ 24,999	7	32	50	63	9	50	246	186	6	23	37	71	186
25,000 " 49,999	8	75	165	217	55	157	609	397	2	11	98	290	391
50,000 " 99,999	15	261	532	661	85	330	2,209	1,758	-	-	327	1,014	1,751
100,000 " 199,999	10	259	578	779	98	949	3,090	2,047	-	-	319	1,168	2,065
200,000 " 499,999	5	301	726	1,095	185	768	3,275	2,326	-	-	333	1,310	2,311
500,000 " 999,999	6	693	1,686	2,421	388	3,358	9,048	5,300	-	-	868	3,538	5,277
1,000,000 " 1,999,999	-	-	-	-	-	-	-	-	-	-	-	-	-
5,000,000 and over	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	1,623	3,739	5,240	821	5,615	18,520	12,054	16	66	1,984	7,394	12,021

See footnotes following Table 3 A.

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1961 and 1962 - Concluded

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	Working owners and partners ⁴		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000							\$'000		\$'000	
1962													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	3	5	10	13	1	1	53	51	2	10	7	15	51
25,000 " 49,999	8	33	67	80	12	33	312	267	6	33	36	89	266
50,000 " 99,999	5	53	101	136	12	79	395	290	5	23	60	171	290
100,000 " 199,999	16	217	467	590	82	384	2,076	1,607	—	—	277	909	1,604
200,000 " 499,999	15	426	944	1,334	186	1,446	4,745	3,093	—	—	504	1,811	3,079
500,000 " 999,999	4	193	485	662	89	817	2,596	1,723	—	—	206	783	1,715
1,000,000 " 4,999,999	7	838	2,069	3,016	501	4,153	13,140	8,538	—	—	1,035	4,164	8,508
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	58	1,765	4,142	5,830	863	6,912	23,317	15,569	13	67	2,125	7,943	15,514

See footnotes following Table 3 A.

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1961 and 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept²

Size group	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec-tricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manu-facture ⁴	Value added ⁴	Working owners and partners ⁴		Total employees ⁷		Total value added ⁸
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000							\$'000		\$'000	
1961													
Under \$10,000	3	9	22	30	28	63	118	27	1	3	11	37	27
\$ 10,000 to \$ 24,999	4	2	4	4	5	33	120	83	7	28	4	7	83
25,000 " 49,999	8	61	112	144	12	87	389	289	6	23	72	162	289
50,000 " 99,999	7	99	193	245	41	122	763	564	2	11	121	349	556
100,000 " 199,999	17	337	694	903	142	990	3,610	2,483	—	—	436	1,452	2,497
200,000 " 499,999	8	315	777	1,027	134	1,289	3,973	2,553	—	—	357	1,357	2,540
500,000 " 999,999	7	800	1,937	2,888	458	3,031	9,548	6,056	—	—	983	4,030	6,029
1,000,000 " 4,999,999													
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	1,823	3,739	5,240	821	5,615	18,520	12,054	16	66	1,984	7,394	12,021
1962													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	6	10	17	20	6	98	223	119	4	23	13	26	119
25,000 " 49,999	9	50	105	129	27	117	501	344	6	32	56	155	344
50,000 " 99,999	8	102	211	263	46	198	858	614	3	13	122	370	614
100,000 " 199,999	17	273	607	827	91	1,143	3,499	2,268	—	—	345	1,233	2,263
200,000 " 499,999	11	486	1,107	1,535	177	2,016	5,698	3,486	—	—	550	1,968	3,469
500,000 " 999,999	3	240	596	858	143	1,134	3,524	2,259	—	—	271	1,072	2,248
1,000,000 " 4,999,999	4	604	1,499	2,197	372	2,208	9,015	6,476	—	—	768	3,118	6,457
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	58	1,765	4,142	5,830	863	6,912	23,317	15,569	13	67	2,125	7,943	15,514

See footnotes following Table 3 A.

TABLE 1D. Principal Statistics classified by Size Groups based on Total Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Under \$10,000	3	9	22	30	28	63	118	27	1	3	11	37	27
\$ 10,000 to \$ 24,999	4	2	4	4	5	33	120	83	7	28	4	7	83
25,000 " 49,999	8	61	112	144	12	87	389	289	6	23	72	162	289
50,000 " 99,999	7	99	193	245	41	122	763	564	2	11	121	349	556
100,000 " 199,999	16	329	694	886	142	759	3,184	2,288	—	—	420	1,388	2,274
200,000 " 499,999	9	323	787	1,045	135	1,521	4,399	2,748	—	—	373	1,422	2,764
500,000 " 999,999	7	800	1,927	2,888	458	3,031	9,548	6,056	—	—	983	4,030	6,029
1,000,000 " 4,999,999													
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	1,623	3,739	5,240	821	5,615	18,520	12,054	16	66	1,984	7,394	12,021
1962													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	6	10	17	20	6	98	223	119	4	23	13	26	119
25,000 " 49,999	9	50	105	129	27	117	501	344	6	32	56	155	344
50,000 " 99,999	8	102	211	263	46	198	858	614	3	13	122	370	614
100,000 " 199,999	17	273	607	827	91	1,143	3,499	2,268	—	—	345	1,233	2,263
200,000 " 499,999	11	486	1,107	1,535	177	2,016	5,696	3,486	—	—	550	1,968	3,469
500,000 " 999,999	3	240	596	858	143	1,134	3,524	2,259	—	—	271	1,072	2,248
1,000,000 " 4,999,999	4	604	1,499	2,197	372	2,208	9,015	6,478	—	—	768	3,118	6,457
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	58	1,765	4,142	5,830	863	6,912	23,316	15,569	13	67	2,125	7,943	15,514

See footnotes following Table 3 A.

TABLE 1E. Principal Statistics classified by Size Groups based on Total Employed,¹¹ 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and elec- tricity ⁵	Cost of materials and supplies used ⁴	Value of shipments of goods of own manu- facture ⁴	Value added ⁴	Working owners and partners ⁶		Total employees ⁷		Total value added ⁸
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Under 5 employees	6	3	5	5	5	36	142	100	8	31	5	8	100
5 - 14 employees	12	85	169	219	50	240	874	578	6	23	107	274	568
15 - 49 "	25	517	1,131	1,499	246	1,451	5,769	4,048	2	11	654	2,304	4,056
50 - 99 "	8	507	1,181	1,838	183	2,007	6,173	3,984	—	—	553	2,366	3,970
100 - 199 "	3	511	1,254	1,680	336	1,881	5,563	3,345	—	—	665	2,422	3,328
200 - 499 "													
500 employees and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	1,623	3,739	5,240	821	5,615	18,520	12,054	16	66	1,984	7,394	12,021
1962													
Under 5 employees	7	9	15	21	6	102	290	162	6	32	12	27	182
5 - 14 employees	14	100	220	274	51	689	1,715	962	6	29	114	362	960
15 - 49 "	25	480	1,056	1,426	199	1,416	5,322	3,684	1	5	606	2,128	3,670
50 - 99 "	9	608	1,426	2,158	253	2,437	8,918	6,257	—	—	664	2,695	6,234
100 - 199 "	3	568	1,425	1,951	354	2,268	7,071	4,485	—	—	729	2,731	4,468
200 - 499 "													
500 employees and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	58	1,765	4,142	5,830	863	6,912	23,316	15,569	13	67	2,125	7,943	15,514

See footnotes following Table 3 A.

TABLE 1F. Principal Statistics classified by Type of Organization, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Type of organization	Establishments	Manufacturing activity							Total activity				
		Production and related workers ⁴			Cost of fuel and electricity ⁵	Cost of materials and supplies used ⁶	Value of shipments of goods of own manufacture ⁷	Value added ⁸	Working owners and partners ⁹		Total employees ¹⁰		Total value added ¹¹
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Individual ownerships	6	27	48	64	4	43	208	161	6	22	33	70	161
Partnerships	5	22	45	59	15	86	273	171	10	43	25	67	171
Incorporated companies	43	1,574	3,646	5,117	802	5,486	18,040	11,723	...	...	1,926	7,257	11,689
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	54	1,623	3,739	5,240	821	5,615	18,520	12,054	16	65	1,984	7,394	12,021
1962													
Individual ownerships	6	32	60	74	5	25	195	166	4	22	37	82	166
Partnerships	6	33	71	100	16	435	891	441	9	45	36	115	440
Incorporated companies	46	1,700	4,012	5,657	842	6,453	22,230	14,962	...	...	2,052	7,746	14,908
Cooperatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	58	1,765	4,142	5,830	863	6,912	23,317	15,569	13	67	2,125	7,943	15,514

See footnotes following Table 3 A.

TABLE 2. Industry Outputs, Inputs and Value Added, 1961 and 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Item	1961	1962
	\$'000	
Manufacturing activity:		
Value of shipments—Goods of own manufacture	18,520	23,317
Add: Closing inventory—Goods in process	102	169
Finished goods	152	120
Deduct: Opening inventory—Goods in process	136	102
Finished goods	148	159
Gross output—Manufacturing activity	18,490	23,345
Deduct: Cost of materials and supplies used in manufacturing activity	5,615	6,912
Cost of fuel and electricity used	621	863
Value added—Manufacturing activity	12,054	15,570
Non-manufacturing activities:		
Value of shipments—Goods not of own manufacture .....	..	373
Add: All other revenue .....	..	39
Closing inventory—Goods purchased for resale	129	126
Deduct: Purchases of goods for resale as such .....	..	380
Opening inventory—Goods not of own manufacture	117	129
Cost of all other materials and supplies used .....	..	84
Value added—Non-manufacturing activities	(33)	(56)
Total value added	12,021	15,514

See footnote following Table 3A.

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

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office ^{4,5}		Sales, and distribution ⁶		Total employees ^{7,8}		Production and related workers		Adminis- trative and office	Sales, and distrib- ution	Total salaries and wages
	Manufacturing ⁴		Other ⁵								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female					
	number										\$'000				
1961															
Quebec	1,096	164	..	..	..	..	..	..	1,298	245	4,085	..	..	..	5,771
Ontario	278	85	..	..	..	..	..	..	328	113	1,155	..	..	..	1,623
British Columbia															
Totals	1,374	249	..	..	..	..	..	..	1,626	358	5,240	..	..	..	7,394
1962															
Québec	1,151	189	4	—	186	74	19	1	1,360	264	4,482	5	1,535	100	6,122
Ontario	316	109	—	4	41	23	7	1	364	137	1,348	4	431	38	1,821
British Columbia															
Totals	1,467	298	4	4	227	97	26	2	1,724	401	5,830	9	1,966	138	7,943

See footnotes following Table 3 A.

TABLE 3 A. Production and Related Workers,⁴ — Manufacturing Activity, by Months, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept²

Month	Establishments reporting monthly detail ¹⁰	
	Male	Female
	number	
January	1,406	267
February	1,414	278
March	1,410	282
April	1,419	306
May	1,432	294
June	1,464	304
July	1,475	313
August	1,504	311
September	1,513	312
October	1,513	320
November	1,514	307
December	1,492	285
Monthly averages	1,467	298

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

² See Explanatory Notes.

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

⁴ Conceptually identical to previous years. See Explanatory Notes.

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

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

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

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

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

¹⁰ The monthly detail of production workers was not collected from small establishments. Annual averages reported by these establishments were included in each month's total.

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

Note: Figures may not add due to rounding.

TABLE 4. Materials and Supplies Used in Manufacturing Activity, 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Cost
		\$'000
1. Materials used:		
Aniline and other dyes:		
Sulphur colours	pound 11,434	10
Direct colours	" 241,748	456
Indirect colours	" 38,371	81
Acid or basic colours	" 106,551	290
Colours used in printing	" 128,949	307
Other colours and dyes	" 301,585	444
Common salt	" 2,149,684	25
Glauber's salt	" 720,974	23
Soda ash	" 365,161	13
Soaps	" 309,484	100
Starch	" 62,408	8
Other weighting materials		23
Liquid ammonia	pound 73,717	5
Liquid chlorine	" 15,480	2
Gasoline and benzine	gallon 5,000	2
Alcohol	prf. gal. 1,030	1
Hydrogen peroxide	pound 393,201	91
Sulphuric acid 66, B2	" 96,034	4
Acetic acid	" 250,013	30
Formic acid	" 60,258	11
Muriatic acid	" 125,585	5
Sulphanated oils	" 113,273	8
Carbon tetrachloride	" 25,433	8
Trisodium phosphate	" 42,833	4
Naphtha	gallon 110,159	24
Caustic soda	pound 312,944	17
Other chemicals, not specified .....	...	1,083
Rubberizing materials .....	...	151
All other materials and components used ² .....	...	2,703
2. Containers and other packaging materials and supplies used		248
3. Operating, maintenance and repair supplies used (excluding fuel)		604
4. Amount paid out to others for work done on materials owned by establishments		131
Total		8,912

¹ See Explanatory Notes.

² No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. In 1962 these estimated costs were \$265,467.

TABLE 5. Fuel and Electricity Used¹ in Manufacturing Activity,² 1962
Basis: Revised Standard Industrial Classification and New Establishment Concept³

Description	Quantity	Cost
		\$'000
1. Large establishments which reported commodity detail:		
Bituminous coal:		
(a) From Canadian mines	ton 1,312	13
(b) Imported	" 1,048	13
Sub-bituminous coal (from Alberta mines only)	—	—
Anthracite	—	—
Lignite coal	—	—
Coke	—	—
Gasoline (including gasoline used in cars and trucks)	imp. gal. 70,651	29
Fuel oil including kerosene or coal oil	" 493,642	379
Wood	—	—
Gas:		
(a) Liquefied petroleum gases	imp. gal. 123,528	16
(b) Other manufactured gas	—	—
(c) Natural gas	M cu. ft. 81,413	63
Other fuel	—	—
Electricity purchased	kwh. 41,399,989	244
Steam purchased .....	...	72
2. Estimate for small establishments for which no data were collected:		
Fuel and electricity .....	...	34
3. All establishments:		
Total fuel and electricity used .....	...	863

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

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

³ See Explanatory Notes.

TABLE 6. Shipments of Goods of Own Manufacture, including Value of Work Done, 1962

Basis: Revised Standard Industrial Classification and New Establishment Concept¹

Description	Quantity	Value
		\$'000
1. Work done for others (custom work):		
Dyeing and finishing of textile fabrics .....	...	10,039
Dyeing and finishing of yarns .....	...	1,097
Printing and painting of textile fabrics .....	...	3,262
Dyeing and finishing of other products:		
Hosiery lb.	1,573,128	1,203
Other products .....	...	1,031
Rubberizing, mercerizing and waterproofing of fabrics .....	...	486
Bleaching, strinking, sponging and all other work .....	...	1,564
Foam laminating of fabrics, all types sq. yd.	2,625,271	1,614
All other work performed .....	...	2,039
2. Shipments of goods of own manufacture		988
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(7)
Total adjusted value of shipments and work done		23,317

¹ See Explanatory Notes.

TABLE 7. Industry Inventories, 1962¹

Basis: Revised Standard Industrial Classification and New Establishment Concept²

Province	Manufacturing				Non-manufacturing	Total Inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
	book value \$'000					
Opening: ³						
Quebec	697	70	14	782	128	910
Ontario	166	32	145	342	1	343
British Columbia						
Totals ⁴	863	102	159	1,124	129	1,253
Closing:						
Quebec	774	122	14	910	126	1,036
Ontario	242	46	106	394	-	394
British Columbia						
Totals ⁴	1,016	169	120	1,304	126	1,431

¹ Values represent book values of inventories 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.

² See Explanatory Notes.

³ The opening inventories may differ from the closing inventories for the previous survey year because of changes in classification, the receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

⁴ Figures may not add due to rounding.

List of Establishments, 1962

Name	Address
Quebec:	
Atlas Sponging Inc.	372 St. Catherine St. West, Montreal
Canada Dye Works Ltd.	144C Laurier St., St. Johns
City Sponging Inc.	372 St. Catherine St. West, Montreal
Commercial Dyers and Bleachers Ltd.	95 Port Royal W., Montreal
Dominion Dyeing and Printing Co. Ltd.	35 Heriot St., Drummondville
Duplan Dyeing Co. Ltd.	63 Edmond St., Valleyfield
Elite Dye-Works Co., Ltd.	1242 St. Adelard St., Drummondville S.
Fabric Dyers Limited	2100 Victoria St., Lachine
Fabric Foam Corp.	9525 Park Ave., Montreal
Fraser, James & Sons	6901 Jeanne-Mance St., Montreal
Gerbro Corp.	6045D Cote de Liesse Rd., St. Laurent
Globe Processing Ltd.	74 Turgeon St., Montreal
Globe & Manufacturers Sponging	10 Ontario St. W., Montreal
Gordon Textile Dyers Ltd.	9075 St. Urbain St., Montreal
Gordon Yarn Dyers Ltd.	9075 St. Urbain St., Montreal
Guarantee Sponging Inc.	5514 St. Dominique, Montreal
Hughes, Trim Ltd.	2050 Bleury St., Montreal
Industrial Dyers Co.	50 Port Royal W., Montreal 12
Kendex Mfg. Co. Ltd.	140 Mercier St., St. Johns, Iberville Co.
Kenmar Dye Works	201 St. Louis St., St. Jean
Kramer Sponging Inc.	1245 St. Urbain St., Montreal
La Pointe & Frère Enr.	25 Aristide St., St. Hyacinthe
Lee Dyers Ltd.	425-21st. Ave., Lachine
Model Dye Works (Canada) Ltd.	Route 52, Huntingdon
Montreal Fast Print Ltd.	9500 St. Lawrence Blvd., Montreal
Montreal Novelty Print	2625 Albert St., Montreal
Novelty Textile Printing	4030 Notre-Dame St. W., Montreal
Pinatel Piece Dye Works Ltd.	251 St. Pierre St. N., Joliette
Pugash Co., Inc.	987 Coté St., Montreal
Screen Fashions Ltd.	4821 Rouen St., Montreal
Shawin Co., Ltd.	8031-18th Ave., Ville St-Michel
Sirlor Textile Printing Inc.	1430 Island St., Montreal
Stanbel Limited	500 Sauve St. W., Montreal
Supreme Dyeing Co., Ltd.	3028 Lasalle Blvd. Verdun
Textile Colouring & Printers Inc.	425 River St., Verdun
Textile Processors Reg'd.	2050 Bleury St., Montreal
Verdun Dyeing Co., Ltd.	475 Fortune St., Montreal
Ontario:	
Ajax Textile Processing Co., Ltd.	177 Mills Rd., Ajax
Armstrong Dye Works	84 Simcoe Street, West, Hamilton
Atlas (Toronto) Sponging Ltd.	474 Wellington St. W., Toronto
Canadians Textile Print Works Ltd.	1024 Rangeview Rd., Port Credit
Continental Dye Works Ltd.	334 Adelaide St. W., Toronto
Cutler Designs Ltd.	126 Geary Ave., Toronto
Duncan Textile Mills	Ceylon
Farquhar & Son Textile Printing	107 Front St. E., Toronto
Gibson Dyers & Converters Ltd.	1319 Davenport Rd., Toronto
Holdsworth and Adam Cloth Finishers Ltd.	474 Wellington St. W., Toronto
Hughes & Co., Ltd.	786 King Street West, Toronto 2B
Kroy Unshrinkable Wools, Ltd.	53 Shaw St., Toronto
Laminated Textiles Co.	380 Adelaide St. W., Toronto
Mattewman & Son, R.W., Ltd.	227 Sterling Road, Toronto 3
Resin-Tex Ltd.	40 Rlordon St. Catharines
Sujuron Limited	136 Mary St., Hamilton
Textrel Fibres Ltd.	20 Arthur St. N., Elmira
Toronto Dyeing and Finishing Works Ltd.	376 Dufferin St., Toronto
Toronto Pile Fabric Blenders	469 King St. W., Toronto 2B
Trenton Dyeing & Finishing Co., Ltd.	52 Film Street, Trenton
British Columbia:	
Suda Textile Printing	151 West Hastings, Vancouver

EXPLANATORY NOTES

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

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

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

Standard Industrial Classification

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

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

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

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

Establishment

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

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

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

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

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

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

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

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

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

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

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

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

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

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

³ See footnote 1.

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

1. Single-Establishment Companies

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

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

2. Multi-Establishment Companies

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

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

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

⁴ See footnote 2 for exceptions.

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

Period Covered

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

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

Working Owners or Partners

Beginning with the revised 1961 statistics working owners and partners of unincorporated businesses are shown as a separate category in the principal statistics and are neither included in the number of employees nor in salaries and wages; there is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each census return. In all previous reports of the Census of Manufactures these workers were included as part of the number of administrative and office employees and their withdrawals were included as part of salaries. Withdrawals are defined as amounts withdrawn by owners or partners for normal living expenses, excluding withdrawals for payment of income tax.

Number of Establishments

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

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

Employees

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

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

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

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

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

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

Man-hours of production and related workers in manufacturing activities represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays etc.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in **average** hourly earnings and does **not** represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

Salaries and Wages

Salaries and Wages refer to gross earnings of the employees described above, **before** deductions for income tax and employees' contributions to social services such as sickness, accident and unemployment insurance, pensions etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only), as well as any other allowance forming part of the workers' earnings. Payments for overtime are included.

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

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives etc.) not to purchases unless the quantities are

substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid-down cost at the establishment including freight, duty etc.

Materials and Supplies

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

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

(c) Other materials and supplies used. Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Value of construction and repair work done by outside contractors is not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid medical supplies, laboratory supplies etc.

Shipments

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

(a) Shipments of goods of own manufacture

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

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm when such units are treated as separate establishments. (See notes on "Establishment").

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

The unsold portion, at year-end, of consignment shipments in Canada, is treated as inventory and not as shipments, but all shipments to foreign countries, for which form B.13 "Customs Canada, Export Entry" has been completed, are treated as shipments.

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

(b) Shipments of goods not of own manufacture

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

(c) Other revenue

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

Inventories

(a) Manufacturing inventory

Values represent the book value of manufacturing inventory owned in Canada. The value of inventory held for which progress payments have been received is treated as shipments and is not included in inventory owned. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Inventory owned abroad has already been reported as shipments and is excluded.

(b) Inventory of goods purchased for re-sale

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

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

Value Added

(a) By manufacturing activities

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

(b) By total activities

Figures consist of value added by manufacturing activities plus value added by non-manufacturing activities and is compiled by deducting the cost of goods purchased for re-sale and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture plus other revenue, adjusted for changes in the value of inventories of goods purchased for re-sale.

"Value added" is sometimes referred to as net production. However, to arrive at the National Accounts concept of net production, or "Gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected in the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, Survey of Production.

Short Forms

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

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

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

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

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

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