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1964

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MANUFACTURERS OF ELECTRIC WIRE AND CABLE

1964

For statistical purposes the industry titled Manufacturers of Electric Wire and Cable in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing electric wire and cable both insulated or armoured and non-insulated. Establishments primarily engaged in manufacturing non-electric wire and wire products are included in Industry No. 305—Wire and Wire Products Manufacturers.

An analysis of the Principal Statistics for this industry indicates that the total value of shipments of products of own manufacture increased 17 per cent in 1964. The total cost of materials used in the manufacture of these products increased by 15 per cent, the value of production increased by 16 per cent and value added increased by 18 per cent. The total value of materials used represented 63 per cent of the value of production and value added represented 35 per cent of the value of production.

The value of shipments of electric wire and cable by the firms classified to this industry accounted for 93 per cent of their total value of shipments. Some of the other products shipped were fuses, potheads, wire mesh, wire rope and strand, merchants wire, aluminum wire, copper wire, coat hangers, plastic and nylon rope.

SYMBOLS

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

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

TABLE 1. 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	25	4,403	9,675	19,868	1,834	103,253	163,300	62,983	-	-	6,541	31,504	64,158
1962													
Totals	24	4,683	10,330	22,074	2,363	115,282	181,018	65,315	-	-	6,834	34,762	66,053
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	6	1,889	4,251	9,734	734	52,153	85,788	33,459	-	-	2,804	15,799	34,238
Ontario	11	2,627	5,836	12,673	1,239	63,490	92,763	28,632	-	-	3,718	18,096	29,058
Manitoba	2	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	1	x	x	x	x	x	x	x	-	-	x	x	x
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	2	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	-	-	6,811	36,021	68,094
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	1	x	x	x	x	x	x	x	-	-	x	x	x
Quebec	6	2,050	4,673	10,984	871	60,931	100,506	40,857	-	-	2,914	16,938	42,588
Ontario	12	2,747	6,107	13,329	1,338	73,066	108,655	32,235	x	x	3,957	20,142	32,443
Manitoba	2	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	1	x	x	x	x	x	x	x	-	-	x	x	x
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	2	x	x	x	x	x	x	x	-	-	x	x	x
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	3	44	88	153	17	771	1,286	452	-	-	62	244	472
500,000 " 999,999		-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 " 4,999,999		10	617	1,373	2,198	274	17,739	26,196	8,371	-	822	3,247	8,412
5,000,000 and over	11	4,084	9,124	20,971	1,807	109,072	167,963	58,061	-	-	5,927	32,529	59,210
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	-	-	6,811	36,021	68,094
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	-	-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999	3	45	88	167	9	671	1,164	528	x	x	62	247	537
500,000 " 999,999		-	-	-	-	-	-	-	-	-	-	-	-
1,000,000 " 4,999,999		11	713	1,657	2,700	296	18,862	29,227	11,238	-	955	4,051	11,362
5,000,000 and over	11	4,303	9,634	22,600	2,030	126,931	196,787	67,477	-	-	6,182	34,266	69,310
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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
1963													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	6	213	519	685	95	5,916	7,508	1,505	-	-	268	969	1,594
100,000 " 199,999		-	-	-	-	-	-	-	-	-	-	-	-
200,000 " 499,999		3	111	243	411	58	6,892	9,085	2,112	-	126	486	2,110
500,000 " 999,999	15	4,421	9,823	22,225	1,948	114,774	178,852	63,266	-	-	6,417	34,566	64,390
1,000,000 " 4,999,999		-	-	-	-	-	-	-	-	-	-	-	-
5,000,000 and over		-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	-	-	6,811	36,021	68,094
1964													
Under \$10,000	-	-	-	-	-	-	-	-	-	-	-	-	-
\$ 10,000 to \$ 24,999	-	-	-	-	-	-	-	-	-	-	-	-	-
25,000 " 49,999	-	-	-	-	-	-	-	-	-	-	-	-	-
50,000 " 99,999	-	-	-	-	-	-	-	-	-	-	-	-	-
100,000 " 199,999	4	111	260	379	18	1,686	2,633	1,025	x	x	159	640	1,136
200,000 " 499,999		-	-	-	-	-	-	-	-	-	-	-	-
500,000 " 999,999		6	295	659	1,072	139	10,702	14,379	4,346	-	365	1,461	4,350
1,000,000 " 4,999,999	11	1,719	3,714	7,732	800	54,414	80,695	25,568	-	-	2,346	11,438	25,557
5,000,000 and over	4	2,936	6,746	16,284	1,379	79,662	129,471	48,304	-	-	4,329	25,026	50,166
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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 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 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	6	213	519	685	95	5,916	7,508	1,505	—	—	268	969	1,594
200,000 " 499,999		111	243	411	58	6,892	9,085	2,112	—	—	126	486	2,110
500,000 " 999,999		3	111	243	411	58	6,892	9,085	2,112	—	126	486	2,110
1,000,000 " 4,999,999	15	4,421	9,823	22,225	1,946	114,774	178,852	63,266	—	—	6,417	34,566	64,390
5,000,000 and over .....		...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	—	—	6,811	36,021	68,084
1964													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	3	45	88	167	9	671	1,164	528	x	x	62	247	537
200,000 " 499,999		7	361	831	148	11,717	15,848	4,843	—	—	462	1,853	4,949
500,000 " 999,999		11	1,719	3,714	7,732	800	54,414	80,695	25,568	—	2,346	11,438	25,557
1,000,000 " 4,999,999	4	2,936	6,746	16,284	1,379	79,661	129,470	48,304	—	—	4,329	25,026	50,166
5,000,000 and over .....		...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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 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 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—
5 - 14 employed	7	155	330	629	82	7,672	11,053	3,320	—	—	196	644	3,339
15 - 49 "		4	251	611	821	103	7,165	9,655	2,368	—	314	1,143	2,467
50 - 99 "		3	308	656	1,220	175	10,214	14,873	4,830	—	458	2,066	4,864
100 - 199 "	7	1,591	3,365	7,567	718	43,558	64,810	21,831	—	—	2,147	10,970	21,738
200 - 499 "		3	2,440	5,623	13,085	1,020	56,973	95,054	34,513	—	3,696	20,997	35,686
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	—	—	6,811	36,021	68,084
1964													
Under 5 employed	—	—	—	—	—	—	—	—	—	—	—	—	—
5 - 14 employed	8	190	420	825	87	8,083	11,978	4,428	x	x	236	1,060	4,432
15 - 49 "		3	185	438	707	58	6,070	8,672	2,749	—	251	1,065	2,883
50 - 99 "		3	280	617	962	189	7,441	11,363	4,070	—	410	1,707	4,020
100 - 199 "	8	1,793	3,874	8,681	843	54,038	79,897	25,554	—	—	2,400	12,400	25,584
200 - 499 "		3	2,613	6,029	14,291	1,159	70,832	115,268	42,443	—	3,902	22,333	44,291
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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

Type of organization	Establishments	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	Withdrawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
1963													
Individual ownerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Partnerships	—	—	—	—	—	—	—	—	—	—	—	—	—
Incorporated companies	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	...	...	6,811	36,021	68,094
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	24	4,745	10,585	23,321	2,098	127,582	195,445	66,883	—	—	6,811	36,021	68,094
1964													
Individual ownerships	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210
Partnerships													
Incorporated companies													
Co-operatives .....	—	—	—	—	—	—	—	—	...	...	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	...	...	...
Totals	25	5,061	11,379	25,466	2,336	146,464	227,178	79,243	x	x	7,199	38,565	81,210

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	195,445	227,178	6,477	7,828	201,922	235,006
Inventories—Goods of own manufacture:						
Add closing—Goods in process	9,169	11,358	...	...	9,169	11,358
Finished goods	22,598	21,275	...	...	22,598	21,275
Deduct opening—Goods in process	8,162	9,169	...	...	8,162	9,169
Finished goods	22,487	22,598	...	...	22,487	22,598
2. Net inventory change	1,118	866	...	...	1,118	866
3. Gross output (1 + 2)	196,563	228,044	6,477	7,828	203,040	235,872
Input						
4. Purchases of goods not of own manufacture .....	...	...	4,887	5,243	4,887	5,243
Inventories—Goods not of own manufacture:						
Add opening .....	...	...	153	287	153	287
Deduct closing .....	...	...	287	310	287	310
5. Cost of goods sold (not of own manufacture) .....	...	...	4,753	5,220	4,753	5,220
6. Materials, supplies, etc.	127,582	146,464	512	642	128,094	147,106
7. Fuel and electricity	2,098	2,336	...	...	2,098	2,336
8. Gross input (5 + 6 + 7)	129,680	148,800	5,265	5,862	134,945	154,662
Value added (3 - 8)	66,883	79,243	1,211	1,966	68,094	81,210

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		Admin- istra- tive and office	Sales and distri- bution	Total
	Manufacturing		Other												
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other			
number										\$'000					
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Quebec	1,741	148	-	-	642	116	133	24	2,516	288	9,734	-	5,130	935	15,799
Ontario	2,518	109	4	-	682	203	159	41	3,363	353	12,673	10	5,200	1,113	18,996
Manitoba	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	4,484	261	4	-	1,367	328	300	67	6,155	656	23,321	10	10,593	2,097	36,021
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick	x	-	-	-	x	x	-	-	x	x	x	-	x	-	x
Quebec	1,885	165	-	-	678	126	53	7	2,616	298	10,984	-	5,586	368	16,938
Ontario	2,641	106	-	-	755	215	192	48	3,588	369	13,329	-	5,594	1,219	20,142
Manitoba	x	-	-	-	x	x	x	x	x	x	x	-	x	x	x
Saskatchewan	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
Alberta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
British Columbia	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Yukon and Northwest Terri- tories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	4,787	274	-	-	1,476	350	255	57	6,518	681	23,466	-	11,447	1,651	38,565

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	4,366	255	4,575	261
February	4,434	257	4,596	265
March	4,358	257	4,632	281
April	4,472	270	4,669	273
May	4,511	275	4,737	277
June	4,610	282	4,861	273
July	3,971	239	4,798	287
August	4,584	246	4,898	281
September	4,691	260	4,894	263
October	4,631	268	4,904	268
November	4,616	272	4,940	280
December	4,586	267	4,907	259
Averages	4,484	281	4,787	274
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	4,484	281	4,787	274

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
New Brunswick	x	—	x	x	—	x
Quebec	4,293	4,823	6,001	15,117	6	15,123
Ontario	4,120	4,122	15,127	23,368	281	23,649
Manitoba	x	—	x	x	—	x
Saskatchewan	x	—	x	x	—	x
Alberta	—	—	—	—	—	—
British Columbia	x	x	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	9,857	9,169	22,598	41,624	287	41,911
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	x	x	x	x	—	x
New Brunswick	x	—	x	x	—	x
Quebec	4,781	6,426	6,551	17,758	13	17,772
Ontario	6,728	4,500	12,733	23,961	286	24,247
Manitoba	x	—	x	x	x	x
Saskatchewan	x	x	x	x	x	x
Alberta	—	—	—	—	—	—
British Columbia	x	x	x	x	—	x
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	13,116	11,358	21,275	45,748	310	46,058

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	39	41	--
(b) Imported	"	20,057	23,709	294
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	—	—	—
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	225,982	235,429	80
Fuel oil including kerosene or coal oil	"	4,175,210	4,624,213	365
Wood	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	45,342	55,501	12
(b) Other manufactured gas	M cu. ft.	—	—	—
(c) Natural gas	"	205,449	288,479	262
Other fuel .....	...	13	...	11
Electricity purchased	kwh.	150,183,679	174,630,624	1,313
Steam purchased .....	...	—	...	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	—	...	—
3. All establishments:				
Total fuel and electricity used .....	...	2,098	...	2,336

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

Description	1963		1964	
	Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:				
Aluminum:				
Castings	lb. 388,513	223	160,131	92
Wire rods	" 73,188,647	20,520	68,317,941	19,136
Sheets and strip	" 6,221,491	2,859	7,461,730	3,373
Other forms .....	... 615		...	2,167
Asbestos (yarn, tape, etc.)	lb. 145,112	151	202,972	221
Brass and bronze:				
Sheets and strip	" 25,112	17	55,722	39
Wire rods	" 210,434	110	321,792	179
Other forms .....	... 16		...	14
Chalk or whiting	lb. 2,703,600	68	2,277,930	65
China clay (Kaolin)	ton 1,864	84	5,386	219
Copper:				
Wire rods	lb. 171,910,202	58,015	194,131,148	68,790
Sheets and strip	" 550,053	275	788,500	386
Tubing and pipe	" 713,457	381	742,950	345
Wire, other insulated .....	... 380		...	578
Other forms .....	... 1,042		...	1,283
Cotton and linen, all forms (sheet, tape, yarn etc.) .....	... 1,887		...	1,837
Fibreglass (yarn, tape, etc.) .....	... 195		...	599
Insulating varnishes, japans, enamels and lacquers .....	... 1,160		...	2,765
Jutes .....	... 292		...	352
Papers, insulating, all forms .....	... 2,063		...	2,385
Iron and steel:				
Steel bars and rods	ton 23	7	5,010	627
Steel sheet and strip	" 2,247	694	2,903	814
Steel wire	" 14,601	4,074	12,946	3,635
Other iron and steel .....	... 655		...	633
Lead:				
Pig (pure)	lb. 9,469,921	1,046	8,219,837	1,044
Antimonial	" 2,088,191	237	1,778,475	250
Other	" 2,735,488	303	4,089,437	799
Lead oxide:				
Litharge	" 15,160	4	24,970	4
Red lead	" 152,055	63	230,573	88
Mica unfabricated forms	" 13,900	2	12,500	1
Paints, stains, lacquers, etc. (for finishing only) .....	... 504		...	460
Resins synthetic (moulding powders, sheets, etc.):				
Vinyl type (PVC, etc.) .....	... 5,383		...	5,594
Polyethylene type (polythene, etc.) .....	... 5,493		...	5,732
Other (bakelite, nylon, orlon, etc.) .....	... 452		...	286
Resistance wire, ribbon and strip	lb. 14,641	42	24,504	44
Rubber	" 8,885,826	2,644	8,903,563	3,020
Sulphuric acid, 100%	" 372,861	6	387,834	4
Talc	" 250,660	8	193,590	3
Tin	" 136,833	159	172,927	278
Zinc oxide	" 730,484	142	931,230	140
All other materials and components used ¹ .....	... 9,143		...	11,297
2. Containers and other packaging materials and supplies used				
...	...	1,796	...	2,094
3. Operating, maintenance and repair supplies used (excluding fuel)				
...	...	4,339	...	4,793
4. Amount paid out to others for work done on materials owned by establishments				
...	...	55	...	14
Totals .....	...	127,582	...	146,464

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$275,000 in 1963, and \$211,000 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Telephone cables:		
Exchange.....	33,508	42,586
Toll and toll entrance		
Telephone wires insulated (drop wires, inside wires, other telephone wires)	7,703	7,983
Telephone switchboard wires and cables	7,742	8,228
Television and radio wires and cables	3,040	4,434
Telephone cordage		
Bare wires and cables (other than copperweld and aluminum)	9,877	12,313
Bare copperweld wires and cables and copperweld-copper strands	603	966
Bare ACSR and aluminum wires and cables	22,479	20,990
Annunciator and office wires and cables	179	194
Magnet wires:		
Thin film insulated	15,461	16,861
Other than thin film insulated	3,528	5,280
Weatherproof wires	4,359	4,566
Power cables (copper or aluminum conductors)	15,668	16,296
Signal and control cables	4,067	3,097
Portable and power supply cables	3,489	5,894
Building wires:		
Non-metallic sheathed cables	10,413	13,110
Flexible armoured building cables	6,233	7,672
Other building wires (exclusive of types covered preceding two items)	14,853	19,114
Flexible cords and fixture wires	5,902	6,415
Service and service entrance cables	3,169	3,311
Other wires and cables, including mineral insulated, asbestos covered, rubber and plastic insulated wires and cables not otherwise provided for	9,310	13,020
All other products	17,868	22,558
2. Amount received in payment for work done on materials and products owned by others	—	22
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(4,006)	(7,735)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	195,445	227,178

¹ Included with "Other wires and cables".

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)

Item	Value	
	1963	1964
	\$'000	
Telephone cables:		
Exchange.....	33,508	42,586
Toll and toll entrance		
Telephone wires, insulated (drop wires, inside wires, other telephone wires)	7,703	7,986
Telephone switchboard wires and cables	7,742	8,228
Television and radio wires and cables	3,040	4,434
Telephone cordage		
Bare wires and cables (other than copperweld and aluminum)	9,877	12,313
Bare copperweld wires and cables and copperweld-copper strands	603	966
Bare ACSR and aluminum wires and cables	22,479	20,990
Annunciator and office wires and cables	179	194
Magnet wires:		
Thin film insulated	15,461	16,861
Other than thin film insulated	3,528	5,280
Weatherproof wires	4,359	4,566
Power cables (copper or aluminum conductors)	15,668	16,296
Signal and control cables	4,067	3,097
Portable and power supply cables	3,489	5,894
Building wires:		
Non-metallic sheathed cables	10,413	13,110
Flexible armoured building cables	6,233	7,672
Other building wires (exclusive of types covered by preceding two items)	14,853	19,114
Flexible cords and fixture wires	5,902	6,415
Service and service entrance cables	3,169	3,311
Other wires and cables not otherwise provided for	9,316	13,020
Totals	181,583	212,333

¹ Included with "Other wire and cables".

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:	
Phillips Cables Limited	Dartmouth
New Brunswick:	
Canada Wire and Cable Company Limited.....	Lancaster
Quebec:	
Aluminum Company of Canada Limited	Shawinigan
Northern Electric Company Limited.....	150 Montreal-Toronto Blvd., Lachine
Phillips Cables Limited	5795 De Gaspé Ave., Montreal
Pirelli Cables Ltd.....	77 Richeieu St., St. Johns
Royal Electric Co. (Que.) Ltd.....	Pointe Claire
Universal Wire & Cable Co. Ltd., The	9250 Hochelaga St., Montreal
Ontario:	
Amphenol Canada Ltd.....	Renfrew
Boston Insulated Wire & Cable Co. Ltd.....	118 Shaw St., Hamilton
Canada Wire and Cable Company Limited.....	Simcoe
Canada Wire and Cable Company Limited.....	147 Laird Dr., Leaside
Canadian General Electric	107 Park St., Peterborough
Federal Wire and Cable Co. Ltd.	Guelph
General Wire & Cable Ltd.	Cobourg
Industrial Wire & Cable Co. Ltd.	Index Rd., Toronto 18
Phillips Limited	Brockville
Phillips Manufacturing Co.	113 Brelthaupt St., Kitchener
Pyrotex of Canada Ltd.	Trenton
Triangle Conduit & Cable (Canada) Ltd.	756 Warden Ave., Scarborough
Manitoba:	
Canada Wire and Cable Company Limited.....	McGillvary and Fennel Sts., Winnipeg
Telecables & Wires Ltd.	McGillvary and Fennel Sts., Winnipeg
Saskatchewan:	
Canada Wire and Cable Company Limited.....	Weyburn
British Columbia:	
Canada Wire and Cable Company Limited.....	917 Cliveden Ave., New Westminster
Phillips Cables Limited	8330 Chester St., Vancouver

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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