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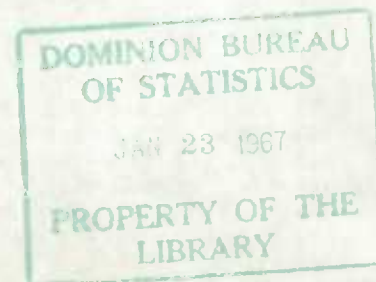


ASBESTOS PRODUCTS MANUFACTURERS

1964

ANNUAL CENSUS OF MANUFACTURES

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PUBLICATIONS

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A — Annual

M — Monthly

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ASBESTOS PRODUCTS MANUFACTURERS

1964

For statistical purposes the industry titled Asbestos Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing asbestos textiles, packings, brake linings, gaskets, asbestos building materials and other commodities composed wholly or chiefly of asbestos.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Asbestos Products Manufacturers industry amounted to \$49.6 million in 1964, compared with \$41.6 million in 1963, an increase of \$8 million or about 19 per cent. Included in this total were shipments of asbestos brake linings (automotive type only), boiler and pipe coverings (asbestos only), asbestos textile products, asbestos paper products valued at \$10,205,000. Shipments of other manufactured products amounted to \$32,787,000 while other revenue (non-manufacturing) accounted for \$6,597,000.

This industry's shipments of asbestos brake linings, boiler and pipe coverings, asbestos textile products, asbestos paper products represented 24

per cent of its manufacturing revenue. Other manufactured products shipped by this industry in 1964, included non-asbestos pipe coverings, asbestos clutch facings, asbestos gaskets, asbestos dryer felts, asbestos packings, asbestos cement shingles, asbestos cement tile, asbestos cement pipe, etc.

The cost of materials and supplies, etc. used in the production of goods of own manufacture in 1964 increased by \$2,851,000 over the 1963 total. Cost of materials and supplies etc. (inputs) in 1964 represented 39.5 per cent of value of shipments of own manufactured (outputs), compared to 40 per cent in 1963.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry whereas Table 14 represents the total value of shipments of specific commodities of Canadian manufacture and includes shipments of those commodities reported by establishments classified to other industries

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	15	1,624	3,652	7,377	921	14,650	35,735	20,054	-	-	2,445	11,819	21,286
1962													
Totals	15	1,658	3,811	7,907	959	14,663	36,683	21,110	-	-	2,422	12,220	22,378
1963													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	5	886	2,052	4,132	451	7,046	18,595	10,980	-	-	1,297	6,645	11,882
Ontario	7	779	1,773	4,081	538	6,894	16,571	9,386	x	x	986	5,254	9,549
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	3	30	59	111	13	205	501	272	-	-	77	337	276
British Columbia													
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,630	12,236	21,706
1964													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	5	909	2,109	4,438	499	8,287	20,378	11,600	-	-	1,320	6,900	12,576
Ontario	8	938	2,054	4,876	570	8,542	22,098	12,989	x	x	1,175	6,185	13,270
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	3	30	58	113	13	169	485	287	-	-	75	338	302
British Columbia													
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	5												
\$ 10,000 to \$ 24,999		23	45	93	15	268	523	227	x	x	36	151	234
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	3	60	125	255	26	582	1,142	537	—	—	72	335	576
500,000 " 999,999	4	495	1,088	2,089	164	2,895	8,673	5,435	—	—	693	3,183	6,395
1,000,000 " 4,999,999	3	1,117	2,625	5,887	795	10,402	25,329	14,438	—	—	1,464	8,109	14,501
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	95	458	...
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,360	12,236	21,706
1964													
Under \$10,000	4												
\$ 10,000 to \$ 24,999		20	38	66	11	131	348	201	x	x	25	92	206
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	4	52	108	226	32	653	1,222	584	—	—	69	321	672
500,000 " 999,999	5	670	1,506	2,832	201	4,434	11,390	7,144	—	—	908	4,007	8,084
1,000,000 " 4,999,999	3	1,135	2,569	6,304	837	11,780	30,002	16,946	—	—	1,472	8,524	17,185
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	96	480	...
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1963													
Under \$10,000	3												
\$ 10,000 to \$ 24,999		8	16	32	6	161	252	83	x	x	12	47	87
25,000 " 49,999													
50,000 " 99,999		30	59	111	13	205	501	272	—	—	43	179	276
100,000 " 199,999													
200,000 " 499,999	3	107	226	459	67	898	2,314	1,340	—	—	137	633	1,403
500,000 " 999,999	6												
1,000,000 " 4,999,999		1,550	3,581	7,722	916	12,883	32,600	18,942	—	—	2,073	10,919	19,940
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	95	458	...
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,360	12,236	21,706
1964													
Under \$10,000	4												
\$ 10,000 to \$ 24,999		14	26	51	13	240	410	164	x	x	18	73	170
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	5	159	344	543	58	1,226	2,560	1,305	—	—	181	654	1,391
500,000 " 999,999	7												
1,000,000 " 4,999,999		1,704	3,850	8,833	1,010	15,533	39,992	23,406	—	—	2,275	12,216	24,586
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	96	480	...
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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	5								x	x			
\$ 10,000 to \$ 24,999		23	45	93	15	268	523	227			36	151	234
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	3	60	125	255	26	582	1,142	537			72	335	576
500,000 " 999,999													
1,000,000 " 4,999,999	7	1,612	3,714	7,976	960	13,297	34,002	19,873			2,157	11,293	20,896
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	95	458	...
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,360	12,236	21,706
1964													
Under \$10,000	4												
\$ 10,000 to \$ 24,999		14	26	51	13	240	410	164	x	x	18	73	170
25,000 " 49,999													
50,000 " 99,999													
100,000 " 199,999													
200,000 " 499,999	5	159	344	543	58	1,226	2,560	1,305			181	654	1,391
500,000 " 999,999													
1,000,000 " 4,999,999	7	1,704	3,850	8,833	1,010	15,533	39,992	23,406			2,275	12,216	24,586
5,000,000 and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	96	480	...
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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	4	13	25	54	12	208	372	140	x	x	19	79	143
5- 14 employed													
15- 49 "													
50- 99 "		247	528	1,058	97	2,044	5,460	3,191			306	1,504	3,254
100-199 "													
200-499 "	5	1,435	3,331	7,211	892	11,895	29,835	17,307			1,940	10,195	18,309
500 employed and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	95	458	...
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,360	12,236	21,706
1964													
Under 5 employed	5	26	51	87	16	293	585	273	x	x	32	122	286
5- 14 employed													
15- 49 "		46	96	204	27	490	985	512			62	291	593
50- 99 "													
100-199 "		313	682	1,241	101	2,534	6,169	3,883			361	1,587	3,693
200-499 "	5	1,492	3,393	7,895	937	13,681	35,223	20,408			2,019	10,944	21,576
500 employed and over													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	96	480	...
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,265	11,779	21,706
Incorporated companies													
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	95	458	...
Totals	15	1,695	3,884	8,324	1,001	14,147	35,668	20,637	x	x	2,360	12,236	21,706
1964													
Individual ownerships	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,474	12,943	26,147
Incorporated companies													
Co-operatives .....	-	-	-	-	-	-	-	-	...	...	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	96	480	...
Totals	16	1,877	4,221	9,427	1,081	16,998	42,962	24,875	x	x	2,570	13,423	26,147

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	35,666	42,962	5,917	6,597	41,585	49,559
Inventories - Goods of own manufacture:						
Add closing - Goods in process	731	857	...	...	731	857
Finished goods	4,949	4,768	...	...	4,949	4,768
Deduct opening - Goods in process	737	764	...	...	737	764
Finished goods	4,825	4,867	...	...	4,825	4,867
2. Net inventory change	118	(6)	...	...	118	(6)
3. Gross output (1 + 2)	35,786	42,956	5,917	6,597	41,703	49,553
Input						
4. Purchases of goods not of own manufacture .....	...	...	4,569	5,080	4,569	5,060
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	1,253	1,159	1,253	1,159
Deduct closing .....	...	...	1,145	1,066	1,145	1,066
5. Cost of goods sold (not of own manufacture) .....	...	...	4,677	5,173	4,677	5,173
6. Materials, supplies, etc.	14,147	16,998	172	150	14,319	17,148
7. Fuel and electricity	1,001	1,081	...	...	1,001	1,081
8. Gross input (5 + 6 + 7)	15,148	18,079	4,849	5,323	19,997	23,402
Value added (3 - 8)	20,637	24,875	1,068	1,274	21,706	26,147

TABLE 8. Employment and Payroll, 1963 and 1964

Year and province	Employees										Salaries and wages				
	Production and related workers				Administrative and office		Sales and distribution		Total		Production and related workers		Administrative and office	Sales and distribution	Total
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female						Manufacturing	Other
	number										\$'000				
1963															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	809	77	-	-	170	65	153	23	1,132	165	4,132	-	1,508	1,005	6,645
Ontario	769	10	5	-	126	38	23	15	923	63	4,081	30	961	182	5,254
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	30	-	-	-	10	3	30	4	70	7	111	-	68	158	337
British Columbia															
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,608	87	5	-	306	106	206	42	2,125	235	8,324	30	2,538	1,345	12,236
1964															
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	832	77	-	-	170	61	159	21	1,161	159	4,438	-	1,457	1,005	6,900
Ontario	898	40	5	-	127	59	26	20	1,056	119	4,876	35	1,088	186	6,185
Manitoba	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	30	-	-	-	8	3	30	4	68	7	113	-	60	165	338
British Columbia															
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	1,760	117	5	-	305	123	215	45	2,285	285	9,427	35	2,605	1,355	13,423

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	1,561	87	1,701	118
February	1,591	89	1,705	118
March	1,581	88	1,708	119
April	1,565	86	1,727	120
May	1,609	90	1,790	121
June	1,678	97	1,830	122
July	1,607	94	1,831	117
August	1,650	93	1,752	113
September	1,640	78	1,796	115
October	1,623	84	1,771	111
November	1,642	81	1,777	108
December	1,555	78	1,720	108
Averages	1,608	87	1,760	117
Establishments reporting annual averages (small establishments only) .....	...	...	...	...
Average for all establishments	1,608	87	1,760	117

TABLE 10. Inventories¹, 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	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	1,744	259	2,842	4,845	683	5,528
Ontario	1,045	505	2,122	3,672	477	4,148
Manitoba	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—
Alberta	87	—	78	165	—	165
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	2,875	764	5,042	8,682	1,159	9,841
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—
New Brunswick	—	—	—	—	—	—
Quebec	1,923	300	2,836	5,059	561	5,620
Ontario	1,360	557	2,073	3,989	505	4,494
Manitoba	—	—	—	—	—	—
Saskatchewan	—	—	—	—	—	—
Alberta	83	—	62	145	—	145
British Columbia						
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	3,365	857	4,971	9,193	1,066	10,258

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 200	2	90	2
(b) Imported	" 14,168	165	8,888	100
Sub-bituminous coal (from Alberta mines only)	" —	—	—	—
Anthracite coal	" —	—	—	—
Lignite coal	" —	—	—	—
Coke	" —	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 54,505	18	81,656	29
Fuel oil including kerosene or coal oil	" 4,327,857	316	4,610,113	338
Wood	cord —	—	—	—
Gas:				
(a) Liquefied petroleum gases	Imp. gal. 105,296	19	133,146	27
(b) Other manufactured gas	M cu. ft. —	—	—	—
(c) Natural gas	" 159,436	86	247,206	147
Other fuel	—	—	—	—
Electricity purchased	kwh. 37,327,312	375	42,581,037	418
Steam purchased	—	—	—	—
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity .....	...	19	...	21
3. All establishments:				
Total fuel and electricity used .....	...	1,001	...	1,081

¹ The difference between figures in Table 10 and those in Table 7 arises from firms reporting outputs or products on the basis of production rather than of shipments. Consequently, inventories of finished products for such respondents are not taken into account for purposes of compiling value added in Table 7. See also "Concepts and Definitions" for explanation of other variances.

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

Description	1963		1964	
	Quantity	Cost	Quantity	Cost
	lbs.	\$'000	lbs.	\$'000
1. Materials used:				
Asbestos fibre	54,626,383	4,572	60,698,891	5,255
Asbestos paper, corrugated and plain	2,980,665	320	1,525,681	186
Asbestos yarn	109,599	76	187,676	131
Cotton cloth and yarn	1,027,901	881	1,149,321	1,053
Rubber and rubber sheets	966,872	280	1,118,857	313
All other materials and components used ¹ .....	...	5,822	...	7,353
2. Containers and other packaging materials and supplies used .....	...	865	...	1,115
3. Operating, maintenance and repair supplies used (excluding fuel) .....	...	1,131	...	1,445
4. Amount paid out to others for work done on materials owned by establishments .....	...	200	...	147
Totals .....	...	14,147	...	16,998

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$562,550 in 1963 and \$483,920 in 1964.

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

Description	Value	
	1963	1964
	\$'000	
1. Products:		
Asbestos brake linings (automotive type only):		
Moulded	4,261	4,952
Other	178	240
Boiler and pipe covering (asbestos only—See Table 14)	250	217
Asbestos textile products (cloth, clothing, dryer felts, yarn, pipe line felt, listings, thermo wrap pipe covering, webbing)	3,460	4,247
Asbestos paper products (millboard and paper)	450	549
All other products ¹	27,062	32,777
2. Amount received in payment for work done on materials and products owned by others	6	9
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above	(--)	(30)
Net adjustment for establishments receiving progress payments	—	—
Total adjusted value of shipments and work done	35,668	42,962

¹ Including non-asbestos pipe covering, asbestos clutch facings, asbestos gaskets, asbestos packings, asbestos cement shingles, asbestos cement tile, asbestos cement pipe, etc.

TABLE 14. Shipments of Selected Goods of Own Manufacture—All Industries, 1955-64
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

A. Asbestos Brake Linings¹

Year	Moulded	Other	Total, all types
	\$'000		
1955	3,088	557	3,645
1956	3,635	324	3,959
1957	3,239	343	3,582
1958	3,398	305	3,703
1959	4,136	265	4,420
1960	4,092	274	4,366
1961	3,977	364	4,341
1962	4,445	207	4,652
1963	4,261	178	4,439
1964	4,952	240	5,192

¹ Automotive type only since 1956.

TABLE 14, Shipments of Selected Goods of Own Manufacture - All Industries, 1955-64 - Concluded
B. Asbestos¹ Boiler and Pipe Coverings

Year	Selling value at plant	Year	Selling value at plant
	\$'000		\$'000
1955	1,631	1960	2,793
1956	3,292	1961	3,468
1957	3,609	1962	3,266
1958	3,311	1963	3,237 ^r
1959	3,086	1964	3,378

¹ Includes asbestos type only prior to 1956 but since then includes magnesia, felt and other types as well - pipeline felt and tank jackets are excluded.

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
Quebec:	
Asbestonos Corporation Ltd.	48 Fort St., St. Lambert
Asten-Hill Ltd.	213 Boulevard DuHavre, Valleyfield
Atlas Asbestos Co., Division of Bell Asbestos Mines Ltd.	5600 Hochelaga St., Montreal 5
Canadian Johns-Manville Co. Ltd.	Asbestos
Columbia Acoustics and Fireproofing Co. (Canada) Ltd.	9830 Ray Lawson Blvd., Ville D'Anjou
Ontario:	
Atom-Otive Products	1000 Martin Grove Rd., Rexdale
Canadian Johns-Manville Co. Ltd.	Col. Danforth Trail, West Hill
Caposite Insulations Ltd.	200 Exmouth St., Samia
Dominion Brake Shoe Co. Ltd.	50 Colbourne St. E., Lindsay
Hamilton Insul-Tech Ltd.	80 Murray St. W., Hamilton
Ra-Ko Cutting and Fabricating	3513 Mavis Rd., Cooksville
Raybestos-Manhattan (Canada) Ltd.	280 Perry St., Peterborough
Wild, A.C., Ltd.	80 Signet Drive, Weston
British Columbia:	
Acme Asbestos Ltd.	1222 East 67th Ave., Vancouver 15
Asbestos Cement Products Ltd.	11105 Bridge St., North Surrey
Caposite Insulations Ltd.	12681-82nd Ave., North Surrey

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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