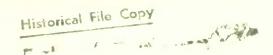
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# ABRASIVES MANUFACTURERS 1965

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#### **PUBLICATIONS**

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### ABRASIVES MANUFACTURERS

#### 1965

For statistical purposes the industry titled Abrasives Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing abrasive grinding wheels of stones, bricks, paper and cloths and buffing and polishing wheels. This industry includes the manufacture of primary abrasive materials such as fused alumina and silicon carbide.

Value of shipments and other revenue (manufacturing and non-manufacturing) of the Abrasives Manufacturers industry amounted to \$66.0 million in 1965, compared with \$57.2 million in 1964, an increase of \$8.8 million or about 15.4 per cent. Included in this total were shipments of crude silicon carbide, crude fused alumina, abrasive wheels and segments, ferrosilicon, valued at \$45.9 million. Shipments of other manufactured products amounted to \$14.1 million while other revenue (non-manufacturing) amounted to \$6.0 million.

This industry's shipments of crude silicon carbide, crude fused alumina, abrasive wheels and segments, ferrosilicon represented 76 per cent of its manufacturing revenue. Other products shipped by this industry in 1965 included artificial pulpstones, abrasive cloth and abrasive paper.

The cost of materials and supplies, etc. used in the production of goods of own manufacture increased by \$4.4 million. Cost of materials and supplies, etc. (inputs) in 1965 represented 50.5 per cent of value of shipments of own manufacture (outputs), compared to 50.5 per cent in 1964.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry whereas Table 14 presents the total value of shipments of specific commodities of Canadian manufacture, and included (if applicable) 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.
- revised figures:
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1. Principal Statistics, 1961-65

				Мал	ufacturing	activity				Т	otal acti	vity	
Year and province	Estab- lish- ments		oduction a ated work		Cost of	Cost of materials	Value of shipments of goods	Value		y owners artners	Emp	loyees	Value
grovano		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salarles and wages	added
	No.		'000			\$'000				\$'000		\$10	000
1961									Í				
Totals	20	1,735	3, 736	8,318	4,881	16,643	42,942	21,480	х	ж	2,481	12,885	22,653
1962													
Totals	20	1,813	3,822	8,813	4,766	19,070	45, 425	22,770	x	х	2,577	13,587	24,233
1963				4									
Totals	21	1, 701	3,673	8,602	4,637	18,277	45,777	21,714	х	х	2,464	13,545	23,712
1964													
Newfoundland	_	_	_	_	_	_		_	-	_	_	_	_
Prince Edward Island	_	-	_	_	_		_	_	-	_	_	_	_
Nova Scotia	_	_	_	_	_	_	-	-	_	_	_	_	_
New Brunswick	-	_	_	_	_	_	_	_	_	_	-	-	_
Quebec	4	x	х	x	x	х	x	x	x	x	x	x	х
Ontario	16	1,536	3,344	7,976	3,550	17,547	44,556	23,646	x	x	2,267	12,954	24,516
Manitoba	_	_	_	_		_	_	_	_	_	_	-	_
Saskatchewan	-			_	_	_	_	_	_		_	_	_
Alberta	_	_	_		_	_	_	-	_	_	_	_	_
British Columbia	1	x	x	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	_	_	_	_		_	_	_	_	_	_	_	_
Tukon and Mothiwest Tentiones													
Totals	21	1,803	3,922	9,410	5, 144	20,350	51,499	26,280	X	х	2,580	14,897	27, 131
1965					i i			Ť					
Newfoundland	-	_	_	_	_	_	-	_	_	_	_	-	-
Prince Edward Island		_	_	-	-	de	_		-		-	_	_
Nova Scotia	_	_	_	-	-	_	_	_	_	-	_	_	_
New Brunswick	_	-	-	-	_	-	_	-	-	-	-	-	-
Quebec	5	x	х	х	х	х	х	x	_	_	x	х	х
Ontario	16	1,730	3,610	9,096	4,153	20,440	51,147	26,940	x	x	2.467	14,439	27.588
Manitoba	_	-	-	-	_	_	_		une	_	_	_	_
Saskatchewan	_	_	-	_	_	_	_	_	_	_	_	_	_
Alberta	-	_	_	-	-	_	-	_		_	-	_	_
British Columbia	1	х	х	х	х	x	х	x	_		x	x	х
Yukon and Northwest Territories		_	_	_	_	_	700	_	-	_	_		_
	0.0	0.000	4 000	10	0.000	00 00-		00 222			0.004	10.000	00.000
Totals	22	2,007	4,260	10,773	6,035	23,825	59, 902	30,264	X	X	2,821	16, 442	30,902

TABLE 2. Principal Statistics classified by Size Group based on Value of Shipments of Goods of Own Manufacture, 1964 and 1965

				Мал	ufacturing	activity				Т	otal activ	ity	
Size group	Estab- lish- ments		duction a sted work		Cost of	Cost of	Value of shipments of goods	Value		owners	Empl	oyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$10	000
1964					1			1 1 1					
Under \$10,000 \$ 10,000 to \$ 24,999	7 -	-	-1	-		-	-	-	-	_	-	-	-
25,000 '' 49,999 50,000 '' 99,389 100,000 '' 199,999	6	30	64	120	15	274	716	431	х	x	42	195	44
200,000 '' 499,999 500,000 '' 999,999	} 3	64	133	300	183	607	1,765	971	_	-	86	533	97
1,000,000 ' 4,999,999 5,000,000 and over Head offices, sales offices and	} 12	1,709	3.724	8,990	4,946	19,470	49,017	24,878	_	-	2,452	13,970	25,71
auxiliary units			* * #				1 0 0						1 0
Totals	21	1,803	3,922	9,410	5, 144	20,350	51,499	26, 280	X	х	2,580	14,697	27,13
1965											1	,	
Under \$10,000 \$ 10,000 to \$ 24,999	-	- 1	-	-		-	_	-	-	-	-	_	
25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999	6	27	57	101	10	211	527	314	х	х	39	174	33
200,000 " 499,999	3 4	74	170	366	206	663	1,945	1.108	-	-	104	626	1.09
500,000 '' 999,999	8 4	770 1,136	1.697 2,337	3,884 6,422	2,504 3,315	8.272 14.680	22,157 35,273	11.331 17.510	=	_	1.014	5,474 10,168	11.52 17,95
auxiliary units	• • •	• • •		3		• • •	* * * *	4 * *	4 4 0				
Totals	22	2,007	4,260	10,773	6,035	23,825	59,902	30,264	X	Х	2,821	16,442	30,90

TABLE 3. Principal Statistics classified by Size Group based on Manufacturing Value Added, 1964 and 1965

				Man	ufacturing	activity				Т	Total activ	rity	
Size group	Estab- lish- ments		duction a ted work		Cost of	Cost of materials	Value of shipments of goods	Value		owners	Emp	ioyees	Value
		Number	Man- hours paid	Wages	elec- tricity	and supplies	of own manu- facture	added	Number	With- drawals	Number	Saiarles and wages	added
	No.		'000			\$'000				\$'000		\$*0	00
1964													
10,000 to \$ 24,999	} 4	12	26	52	6	186	347	157	х	x	16	74	16
100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	3 3 3	24 96 182	55 197 394	95 478 885	12 301 552	211 1.092 1.472	629 2,572 4,213	398 1,196 2,175			37 120 236	167 720 1,263	1,19 2,19
1,000,000 4,999,999	} 8	1.489	3, 250	7,899	4,275	17,390	43,738	22,353	-	-	2,171	12,454	23,1
Totals	21	1,803	3,922	9,410	5, 144	20,350	51,499	26,280	x	х	2,580	14,697	27, 1
1965													
nder \$10,000	_	_	_	_		-	-	-	_	-	-	-	
10,000 to \$ 24,999	} -5	17	37	60	7	174	357	185	x	х	26	104	2
100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	3 3 3	22 109 191	51 240 431	107 557 1,022	12 332 606	251 1,248 1,572	624 2,855 4,778	392 1.260 2.605	_	=	34 136 249	204 798 1,429	1.2 2.6
,000,000 '' 4,999,999 ,000,000 and overead offices ales offices and	7 1	1,668	3,501	9,027	5,078	20,581	51, 289	25,822	-	-	2.376	13.907	26.4
auxiliary units				+ = +	* * *	110		4 7 7		9 4 4			
Totals	22	2,007	4,260	10,773	6,035	23,825	59, 902	30,264	X	x	2,821	16,442	30,

TABLE 4. Principal Statistics classified by Size Group based on Total Value Added, 1964 and 1965

				Man	ufacturing	activity				Т	otal acti	vity	
Size group	Estab-		duction ated work		Cost of	Cost of	Value of shipments	Value		owners artners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		1000			\$'000				\$'000		\$10	000
1964								1					
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999	4	12	26	52	6	186	347	157	х	Х	16	74	162
100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	3 3 3	24 96 162	55 197 394	95 478 885	12 301 552	211 1,092 1,472	629 2,572 4,213	398 1,196 2,175	=	=	37 120 236	167 720 1,263	1,194 2,195
1,000,000 " 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	} 8	1,489	3,250	7.899	4, 275	17.390	43.738	22,353	_	_	2.171	12,454	23, 17
		1 000						***		* * *			
Totals	21	1,803	3,922	9,410	5,144	20,350	51,499	26,280	X	Х	2,580	14,697	27, 13
1965													
Under \$10,000	5	} 17	37	60	7	173	357	185	х	x	26	104	201
100,000 '' 199,999 200,000 '' 499,999 500,000 '' 999,999	3 3 3	109 191	51 240 431	107 557 1,022	12 332 606	251 1.248 1.572	624 2,655 4,778	392 1,260 2,605		=	34 136 249	204 798 1,429	39' 1,24' 2,61
1,000,000 " 4,999,999 5,000,000 and over filed offices, sales offices and saxiliary units	8	1,668	3,501	9.027	5,078	20,581	51,289	25,822	-	min 0	2,376	13,907	26,45
Totals	22	2,007	4,260	10,773	6.035	23,825	59,902	30, 264	X	x	2.821	16,442	30,90

TABLE 5. Principal Statistics classified by Size Group based on Total Employed, 1964 and 1965

				Mai	nufacturing	activity				7	lotal acti	vity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	Value		owners artners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	elec- trlcity	and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000			\$,000		1		\$'000		\$'(	000
1964								1					
Under 5 employed	} 7	36	81	148	17	398	976	556	х	x	53	261	571
15- 49	3 3 4	96 182 432	197 394 939	478 865 2, 292	301 552 1,498	1,092 1,472 5,183	2,572 4,213 14,186	1.196 2,175 7,603	-	=	120 236 656	720 1,263 3,749	1,194 2,195 7,735
500 employed and over	} 4	1,057	2,311	5,608	2,777	12.207	29.551	14,750	_		1.515	8,705	15, 438
auxiliary units	***					***				* * *		7.1.1	* * * *
Totals	21	1,803	3,922	9,410	5,144	20,350	51,499	26,280	X	ж	2,580	14,697	27, 131
1965						]							
Under 5 employed	3	6	12	20	3	43	103	60	X	x	8	26	75
5 - 14 employed	} 7	95	215	447	213	831	2,369	1,353	_	-	135	774	1.351
50 - 99 "	3 4	152 458	345 1,013	809 2,505	173 2,265	1.538 4,854	3.873 13.447	2,155 6,240	_	Ξ	199 555	1.160 3,067	2.174 6,251
500 employed and over	5	1,296	2,675	6,992	3,381	16,559	40.110	20,446	-	-	1,924	11,415	21,051
auxiliary units		4 + 1				* * *						4 1 1	***
Totals	22	2,007	4,260	10, 773	6,035	23,825	59,902	30, 264	X	X	2,821	16,442	30,902

TABLE 6. Principal Statistics classified by Type of Organization, 1964 and 1965

	- 6			Man	ufacturing	activity				7	Total acti	vity	
Type of organization	Estab-		duction a		Cost of	Cost of	Value of shipments	Value		owners artners	Empl	oyees	Value
O Bessel of the	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$*0	000
1964													
Individual ownerships	]				200								
Partnerships	21	1,803	3,922	9,410	5,144	20,350	51,499	26, 280	x	х	2,580	14,697	27, 131
Incorporated companies	]												
Co-operatives	_	_	-	-	-	-	_	1 -	-	-	-	-	-
Head offices, sales offices and auxiliary units		0 4 0			+ 0 +	* * *				• • •	***		
Totals	21	1,803	3,922	9,410	5, 144	20,350	51,499	26, 280	х .	x	2,580	14, 697	27, 131
1965													
Individual ownerships	1												
Partnerships	22	2,007	4 260	10,773	6,035	23, 825	59, 902	30, 264	x	x	2,821	16, 442	30, 902
Incorporated companies		2,001	2,000	20,110	0,000	=0,0=0	00,002				-,		
Co-operatives	_			_			_					_	
Head offices, sales offices and													
auxiliary units			4 + +										
Totals	22	2,007	4, 260	10, 773	6,035	23,825	59, 902	30, 264	x	x	2, 82 I	16, 442	30, 902

TABLE 7. Calculation of Output, Input and Value Added, 1964 and 1965

	Manufact activi		Non-manufa activiti		Tota activi	
	1964	1965	1964	1965	1964	1965
			\$'00	0		
Output						٠
1. Shipments and other revenue	51,499	59,902	5,660	6,070	57,149	65, 973
Inventories - Goods of own manufacture:						
Add closing - Goods in process	1,390	1,728		***	1,390	1,728
Finished goods	3,215	3,473	•••		3, 215	3,473
Deduct opening-Goods in process	1,273	1,613	• • •	* * *	1,273	1,613
Finished goods	3,056	3,367	• • •	***	3, 056	3,367
2. Net inventory change	276	221		* • •	276	221
3. Gross output (1+2)	51,775	60,123	5,660	6,070	57,435	66, 193
Input			1114		4	
4. Purchases of goods not of own manufacture		* * =	4,667	5,223	4,667	5, 223
Inventories - Goods not of own manufacture:		1				
Add opening			896	915	696	915
Deduct closing			979	951	979	951
5. Cost of goods sold (not of own manufacture)			4,584	5,187	4,564	5, 187
6. Materials, supplies, etc.	20,350	23,825	225	245	20, 575	24,07
7. Fuel and electricity	5,144	6,035			5, 144	6,03
8. Gross input (5 + 6 + 7)	25, 494	29,860	4,809	5,432	30, 303	35, 29
Value added (3 - 8)	26, 280	30, 264	851	638	27, 131	30, 90

TABLE 8. Employment and Payroll, 1964 and 1965

Mal	related facturing Femal	e Male		trai	Female  Female  Temple  Temple	a	Female	Male  Male  X 1.955	Female	Producti related v		Admin- lstra- tive and office	Sales and distribution	Total
1984  Newfoundiand  Prince Edward Island  Nova Scotia  New Brunswick  Quebec		4	11	numl	x 149	168	42	x 1.955	x 312	turing		s'000	1,428	12,954
Newfoundiand         Prince Edward Island           Nova Scotia         New Brunswick           Quebec         x           Ontario         1, 4           Manitoba         Saskatchewan           Alberta         x           British Columbia         x           Yukon and Northwest Territories         1,6           1965         Newfoundland           Prince Edward Island         Prince Edward Island	6 120	4	1 -	x 367	- x 149	168	42	x 1,955	x 312	- x 7,976		x 3,525	1,428	12,954
Newfoundiand         Prince Edward Island           Nova Scotia         New Brunswick           Quebec         x           Ontario         1, 4           Manitoba         Saskatchewan           Alberta         x           British Columbia         x           Yukon and Northwest Territories         1,6           1965         Newfoundland           Prince Edward Island         Prince Edward Island	6 120	4	1 -	x 367	x 149	168	42	x 1,955	x 312	- x 7,976		x 3,525	1,428	12,954
Prince Edward Island Nova Scotia New Brunswick Quebec x Ontario 1,4 Manitoba Saskatchewan Alberta British Columbia x Yukon and Northwest Territories Totals 1,6  1965 Newfoundland Prince Edward Island	6 120	4	1 -	x 367	x 149	168	42	x 1,955	x 312	- x 7,976		x 3,525	1,428	12,954
Nova Scotia           New Brunswick           Quebec         x           Ontario         1,4           Manitoba         Saskatchewan           Alberta         x           British Columbia         x           Yukon and Northwest Territories         1,6           Totals         1,6           Newfoundland         Prince Edward Island	6 120	4	1 -	x 367	x 149	168	- - 42 - -	x 1,955	x 312 -	x 7,976 — —	25 -	x 3,525	1,428	12,95
New Brunswick         X           Quebec         X           Ontario         1,4           Manitoba         Saskatchewan           Alberta         X           British Columbia         X           Yukon and Northwest Territories         1,6           Totals         1,6           Newfoundland         Prince Edward Island	6 120	4	1	x 367 - -	x 149	168	42	x 1.955	x 312 -	x 7,976 — —	25 - -	x 3,525 —	1,428	12,95
Quebec         x           Ontario         1,4           Manitoba	6 120	4	- 1 - -	367 - -	x 149 - -	168 - - -	42	x 1.955 - -	312 - - -	7,976 - - -	25 - - -	3,525	1,428	12,95
Ontario         1, 4           Manitoba         1, 4           Saskatchewan         Alberta           British Columbia         x           Yukon and Northwest Territories         1, 6           Totals         1, 6           1965         Newfoundland           Prince Edward Island         Prince Edward Island	6 120		1 - - - -	367	149	168	42	1,955	312	7,976 - - -	25 - - -	3,525	1,428	12,95
Manitoba Saskatchewan Alberta British Columbia Yukon and Northwest Territories Totals 1965 Newfoundland Prince Edward Island			-	-	_					-			-	
Saskatchewan Alberta		-	-	-	_	_	_	_	_	_	_	_	-	- - x
Alberta x  British Columbia x  Yukon and Northwest Territories  Totals 1,6  1965  Newfoundland  Prince Edward Island		_	_			-	-			_		_	-	x
British Columbia x Yukon and Northwest Territories  Totals 1,6  1965 Newfoundland Prince Edward Island	-	-	_										-	x
Yukon and Northwest Territories  Totals 1965  Newfoundland Prince Edward Island	-   -			X	х	_	_	X	X	X	_	x	-	х
Totals 1,6  1965  Newfoundland  Prince Edward Island		-	_		1									
Totals 1, 6  1965  Newfoundland Prince Edward Island		-	-											
1965 Newfoundland	33 12				-	_	_	_	_	-	_	_	_	_
Newfoundland Prince Edward Island		4	1	406	156	168	42	2,261	319	9, 410	25	3,834	1,428	14,69
Newfoundland Prince Edward Island										4				
Prince Edward Island	_   _		_	_	_	_	_	_	_	_	_	_	_	_
						_		_		_	_		_	_
Nova Scotia	_		_	_		_	_	_	_	_	_	_	_	_
				_		_		_		_	_	_	_	
Quebec	x	_	_	X	x	_	_	x	X	х	_	X	_	×
Ontario 1,5			1	386	148	183	38	2.156	311	9,096	45	3,636	1,662	14, 43
		_	_	_	_	_	_	_	_	-	-		-	_
	_   _		_	_		_	_		_	_	_	_	_	_
	_   _		_	_		_	_	_	_	-		_	_	
British Columbia x	x	_	_	x	x	-00	_	X	X	x	_	x		x
Yukon and Northwest Terri-		_	-	_	_	_	_	_	_	_	_	_	_	_
Totals 1, 8	82 12	8	1	427	157	183	38	2, 500	321	10,773	45	3, 962	1, 662	16, 44

TABLE 9. Production and Related Workers, - Manufacturing Activity, 1964 and 1965

	196	4	196	5
Month	Male	Female	Male	Female
		numbe	61	
Establishments reporting monthly detail (large establishments only):	1		1	
January	1,602	110	1,653	119
February	1,594	113	1,723	12
March	1,634	114	1,764	119
April	1,630	114	1,819	124
May	1,681	119	1,918	130
June	1,699	121	1,938	134
July	1,694	129	1,967	129
August	1,719	131	1,941	12
September	1,739	121	1,939	129
October	1,751	122	1,939	126
November	1,724	120	1,979	129
Degember	1,737	122	1,976	123
,iverages	1,683	120	1,882	125
Establishments reporting annual averages (small establishments only)			* * *	
Average for all establishments	1,683	120	1,882	125

TABLE 10. Inventories, 1965

		Manufa	cturing		Non- manufacturing	
Province	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	Total inventories
			book value	\$'000		
Opening:						
Newfoundland			_	_	_	- 10
Prince Edward Island	-	-	-	-		_
Nova Scotia	-	-	_	_	-	
New Brunswick	-	_	_		_	_
Quebec	X	х	X	х	X	х
Ontario	3,267	1,560	2,866	7,694	911	8,604
Manitoba	-		_	_	-	-
Saskatchewan	_		-	éralb	_	_
Alberta	_	_	_	_	_	_
British Columbia	x	x	x	х	_	x
Yukon and Northwest Territories	-	L	_		_	_
Totals	4, 199	1,613	3, 367	9, 179	915	10, 094
Closing:						
Newfoundland	-	_	_	_	_	-
Prince Edward Island	_	évalle	_	_	evan.	
Nova Scotia	_		_			_
New Brunswick	_	_	_	_		_
Quebec	x	x	x	x	x	x
Ontario	3,615	1,670	3,142	8,427	925	9,352
Manitoba	_	_	_	_	L	
Saskatchewan	-				-	_
Alberta	_		_	_		
British Columbia	x	X	x	x		x
Yukon and Northwest Territories	**	-		_		
Totals	4, 681	1, 728	3, 473	9, 882	951	10, 833
100419	4, 001	1, 140	3, 4 (3	9, 004	931	10, 65

TABLE 11. Purchased Fuel and Electricity Used, 1964 and 1965

	1964		1965	
Description	Quantity	Cost	Quantity	Cost
		\$'000		\$*000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines ton	180	2	99	2
(b) Imported	6,945	86	7,372	95
Sub-bituminous coal (from Alberta mines only)	_	_	- 11	_
Anthracite coal	34	1	_	
Lignite coal				
Coke	327	4	118	2
Gasoline (including gasoline used in cars and trucks) Imp. gal.	33,098	13	61,813	24
Fuel oll including kerosene or coal oil	820,687	90	891,764	97
Woodcord				_
Gas:				
(a) Liquefled petroleum gases	38, 412	12	58, 033	15
(b) Other manufactured gas Mcu. ft.	_		_	_
(c) Natural gas	82,338	77	95,477	90
Other fuel	-	-	_	_
Electricity purchased kwh.	1,071,697,131	4,847	1, 213, 967, 939	5,692
Steam purchased	_	-	_	_
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		12		19
	***			10
3. All establishments:				
Total fuel and electricity used		5, 144	* * *	6, 035

TABLE 12. Materials and Supplies - Manufacturing Activity, 1964 and 1965

		1964		1965	
Description	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
i. Materials used:					
Alumina, pure tor	8,865	933	11,216	1,24	
Bauxite	171,639	5,398	196,307	6,331	
Coal (not for fuel)	2,873	34	3,519	42	
Coke (not for fuel):					
Petroleum	105,048	1,970	114,603	2,220	
Pitch	1,744 6,152	78 75	2,360 3,611	99	
Electrodes	3,073	811	3,382	1, 139	
Iron borings	13,425	314	15,267	38	
Sawdust	15,995	114	21,981	7'	
Silica sand	130.746	1, 192	145,270	1,268	
	130,140	1,132	143,210	1,20	
Artificial abrasive grains:					
For wheels, paper, etc.: Fused alumina	3, 208	1.055	3.319	1.06	
Silicon carbide	3,305	875	4,490	1,430	
Natural abrasive grains:					
Garnet 1b.		53	360,210	50	
Emery Quartz or flint	55,563 223,064	6 7	89,931 278,707		
Other "	22,550	i	23,857		
Bonding and bushing materials:					
Clay bonds	1,243,863	158	1,239,687	120	
Bakelite and synthetic resins Lead for bushings	599,167 47,138	258	822,864 52,536	28	
Glue, animal and hide	669,700	196	716,255	20:	
Other		72		11'	
Cotton cloth	***	407	4 + 5	49'	
Kraft paper and other paper		401		34	
All other materials and components used <sup>1</sup>	a o 4	3,118		3,23	
2. Containers and other packaging materials and supplies used		436		488	
3. Operating, maintenance and repair supplies used (excluding fuel)		2,382		3,11	
Amount paid out to others for work done on materials owned by establishments	_	vised	_	-	
Totals		20 350		22 02	
Totals	* * *	20,350		23,8	

<sup>&</sup>lt;sup>1</sup> No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$600,782 in 1964 and \$415,986 in 1965.

TABLE 13. Shipments of Goods of Own Manufacture, 1964 and 1965

Dec. 199	1964		1965	
Description	Quantity	Value	Quantity	Value
	tons	\$'000	tons	\$'000
1. Products:  Crude silicon carbide Crude fused alumina Abrasive wheels and segments Ferrosilicon All other products	85,433 148,339 12,660	11,398 18,134 10,605 676 12,801	98,545 169,289 14,907	13.967 19,635 11,377 888 14,173
2. Amount received in payment for work done on materials and products owned by others		_		_
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above		(115)		( 138)
Net adjustment for establishments receiving progress payments		-00%		
Total adjusted value of shipments and work done		51,449		59,902

#### TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1956 - 65 (Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed) A. Specified Abrasives

the second secon	Crude silic	de silicon carbide Crude fused alumina			Total	
Year	Quantity	Selling value at plant	Quantity	Selling value at plant	Quantity	Selling value at plant
	tons	\$'000	tons	\$'000	tons	\$'000
1956	80,467	10,430	181,830	17,636	262, 297	28,066
1957	83, 321	11,828	218, 187	21,902	301,508	33, 731
1958	77,528	11,676	109, 507	10,994	187, 035	22,670
1959	86,248	12,660	152, 319	15,414	238, 567	28,074
1960	84,611	13,026	187, 105	19,417	271,716	32,443
1961	79.188	12, 478	128, 661	13,597	207, 849	26,076
1962	65, 853	10, 233	161,849	17,081	227,702	27,314
1963	78,370	11,040	148, 116	15,600	226, 486	26, 640
1964	85, 433	11,398	148,339	16, 134	233,772	27,532
1965	98, 545	13, 967	169, 289	19,635	267, 834	33,602

#### B. Abrasive Wheels and Segments<sup>1</sup>

Year	Seiling value at plant	Year	Selling value at plant
	\$'000		\$*000
1956	7,206	1961	<b>6</b> , 863
957	7,100	1962	7, 812
958	6,013	1963	8.884
959	7,550	1964	10, 605
960	6,425	1965	11,377

<sup>&</sup>lt;sup>1</sup> Does not include artificial pulpstones or sharpening stones. Excludes as well diamond impregnated wheels.

#### C. Surface Coated Abrasive Products<sup>1</sup>

	Seiling value at piant			
Year	Abrasive cioth	Abrasive paper	Other coated abrasive products <sup>1</sup>	Total
		'000 d	ollars	
1959				7, 717
1960				7, 612
1961	2	2	2	8, 165
1962				8. 970
1963				8,770
1964	4,640	3, 923	2,433	10, 996
1965	5,061	4,540	2,462	12,063

Includes abrasive fibre and combinations, etc.
 No separate breakdown prior to 1964.

List of Establishments classified to this Industry, 1965
(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location		
Quebec:			
Abrasifs Primex Inc.	2625, rue Albert, Montreal		
Canadian Carborundum Co. Ltd.	Transmission Ave., Shawinigan		
Electro Refractories and Abrasives Canada Ltd.	60 Notre-Dame St., Cap-de-la-Madeleine		
Norton Company	De Grandmont St., Cap-de-la-Madeleine		
Simonds Canada Abrasives Co. Ltd.	Slmonds and LaSalle St., Arvida		
Ontario:			
Bay State Abrasive Products Company (Canada) Limited	188 Pearl St., Brantford		
Buller Buff Co.	. 35 Water St., Galt		
Canada Sand Papers Ltd.	. Albert St., Plattsville		
Canadian Carborundum Co. Ltd.	P.O. Box 1007, Niagara Falls		
Canadian Grinding Wheel Co. Ltd.	790 Rennie St., Hamilton		
Dominion Abrasive Wheel Co. Ltd.	Mimico		
Exolon Co., The	Thorold		
Lea Mfg. Co. of Canada Ltd.	1236 Birchmount Rd., Scarborough		
Lionite Abrasives Ltd.	193 Stanley Ave. N., Niagara Falls		
McAleer Mfg. Co. Ltd.	123 Towns Rd., Etoblooke		
Mid-West Abrasive Co. of Canada Ltd.	620 Albert St., Strathroy		
Norton Company of Canada Limited	3 Beach Rd., Hamilton		
Norton Company	100 Daly St., Chippawa		
Norton Company of Canada Ltd.	Brantford		
Slmonds Canada Saw Co. Ltd. (Grinding Wheel Division)			
Wright Abrasives Ltd., The	2 Adams St., Hamilton		
British Columbia:			
Diamond Abrasive Wheels Ltd.	1291 Parker 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 55 (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 135 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 reports reflect the complete implementation of these changes and enable comparisons to be made back to and including 1961. 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 it's 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, vicepresidents, 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" ahove

#### (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 companyoperated 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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