



OTHER CHEMICAL INDUSTRIES 1964

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PUBLICATIONS

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OTHER CHEMICAL INDUSTRIES 1964

For statistical purposes the industry titled Other Chemical Industries in the revised Standard Industrial Classification covers establishments primarily engaged in manufacturing chemical products not elsewhere classified, such as insecticides, germicides, inks, matches, adhesives, polishes and dressings. This industry includes establishments primarily engaged in coal tar distillation or wood distillation. Included also are establishments primarily engaged in manufacturing deodorants and desinfectants for household, institutional or industrial use; sweeping compounds and dry-cleaning preparations. It might be noted that for purposes of preparation of statistics in this report recognition is being given to Manufacturers of Printing Inks as a sub-classification within this industry group.

Value of shipments and other revenue of the Other Chemical Industries totalled \$285 million, an increase of \$29 million over 1963. This amount included shipments of adhesives and cements, automobile chemicals, boiler chemicals, washing

compounds, soaps and detergents and cleaning preparations, concrete admixtures, deodorants and disinfectants, matches, oils, pest control products, pitch, printing inks, polishes, and numerous other products valued at \$214 million, and other revenue of \$71 million.

The cost of materials and supplies, etc., used in the production of goods of own manufacture increased by \$8.3 million. Cost of materials and supplies, etc., (inputs) in 1964 represented 51.2 per cent of the value of shipments of own manufacture (outputs), compared to 53.0 per cent in 1963.

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 the specified commodities of Canadian manufacture. And include, where 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, 1961-64

				Man	ufacturing	activity				Т	otal activ	ity	
Year and	Estab-		duction a		Cost of	Cost of	Value of shipments			owners artners	Emp	loyees	
province	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$'0	00
1961													
Totals	345	3, 756	7, 974	14, 136	2, 560	85, 604	169, 244	83, 124	67	216	7. 783	36, 103	92, 682
1962													
Totals	347	3, 894	8, 130	14, 831	2, 690	95, 806	187, 263	89, 094	70	245	7, 949	38, 326	100, 455
1963													
Newfoundland	_		attentio	_	_	_		_	-	_	_	date	
Prince Edward Island	_	_	-	-	_	_	_	_	-	_	_	_	_
Nova Scotia	5	} 19	43	97	28	882	1, 261	327	x	x	32	172	328
Quebec	104	984	2, 111	3, 553	796	20, 450	46,345	25, 131	22	82	2, 093	9,758	28. 046
Ontario	177	2, 774	5, 937	11, 513	1, 772	74, 148	138, 321	62, 988	28	103	5, 490	28, 800	71, 243
Manitoba	11	49	105	179	23	2, 780	4, 267	1, 398	x	x	102	436	1, 529
Saskatchewan	4	11	24	41	4	887	1,266	482	_	_	30	139	623
Alberta	12	31	68	121	10	1.614	2. 188	585	х	x	60	272	643
British Columbia	38	115	252	532	128	2, 371	5. 127	2,616	3	10	257	1, 207	3, 097
Yukon and Northwest Territories		_	-	_	_	_	_	_	_	_	_	-	_
Totals	352	3, 983	8, 540	16, 035	2, 760	103, 131	198, 775	93, 527	58	213	8,064	40. 784	105, 508
1964													
Newfoundland	1												
Prince Edward Island	1	13	31	48	8	585	847	282	3	6	24	110	000
Nova Scotia	5	13	21	40		202	041	202	٥	0	44	119	283
New Brunswick	1												
Quebec	103	999	2, 131	3,766	807	21,636	46, 682	24, 197	23	75	2, 081	10.484	27, 733
Ontario	190	2, 898	6, 221	12, 356	1, 826	81,027	152, 781	70, 446	34	124	5, 829	31, 304	83. 974
Manitoba	10	49	106	197	28	3, 571	5, 200	1.676	x	x	103	450	2, 071
Saskatchewan	4	10	19	33	4	958	1. 175	200	_	_	31	143	316
Alberta	11	27	60	100	10	1, 339	1, 915	701	х	х	49	224	903
British Columbia	39	143	297	605	130	2, 312	5, 498	2, 941	х	х	280	1, 281	3,317
Yukan and Northwest Territories	_	_	-	-		_	_			_		-	-
Totals	365	4, 139	8, 866	17, 104	2, 813	111, 428	214, 099	100, 443	65	223	8, 397	44, 003	118, 598

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

				Man	ufacturing	activity				Т	otal activ	rity	
Size group	Estab- lish- ments		duction a sted work		Cost of	Cost of materials	Value of shipments of goods	Value	Working and pa		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		\$'0	00
1963													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 ' 49,999 100,000 '' 199,999 200,000 '' 499,999 200,000 '' 499,999 1,000,000 '' 4,999,999 5,000,000 and over Head offices, sales offices and	32 35 37 33 43 70 43 56	12 24 63 106 161 586 587 2,172 252	24 47 126 219 392 1,241 1,262 4,708 522	24 71 196 339 658 2,040 2,360 9,413 935	3 16 30 66 293 330 1,935	85 275 680 1,195 2,993 12,025 16,268 56,015 13,595	178 606 1,429 2,469 6,138 22,161 31,553 112,135 22,106	102 358 846 1,288 3,189 10,121 15,074 54,300 8,249	20 23 5 10 -	36 93 24 60	21 44 134 189 406 1,158 1,303 4,176 499	45 131 429 745 1,986 5,301 6,884 22,015 2,468	11: 38: 91: 1,42: 3,90: 12,23: 16,68: 58,32: 10,92:
auxiliary units							* * *				134	779	590
Totals	352	3, 983	8,540	16,035	2, 760	103, 131	198, 775	93, 527	58	213	8,064	40, 784	105,50
1964													
Under \$10,000	31 30 39 45 48 68 38 63 3	8 30 66 130 179 561 572 2,322 271	15 57 132 270 373 1,181 1,229 5,060 549	17 80 192 447 632 1,944 2,410 10,352 1,030	1 15 45 64 285 265 2,046 91	77 201 703 1,668 3,377 11,776 14,192 66,363 13,072	174 470 1,431 3,334 6,899 22,563 28,044 128,569 22,615	95 270 755 1,663 3,232 10,410 13,707 60,771 9,539	19 19 18 5 4	34 58 69 36 26	22 47 114 244 400 1,156 1,238 4,468 546	40 119 374 1,045 1,904 5,635 6,733 24,498 2,806	9 29 84 2,13 3,76 13,54 17,51 66,38 13,32
auxiliary units							0 0 0				162	850	68
Totals	365	4,139	8, 866	17, 104	2, 813	111,428	214,099	100, 443	65	223	8, 397	44,003	118,59

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

				Man	ufacturing	activity				7	otal activ	vity	
Size group	Estab- lish- ments		duction a		Cost of	Cost of materials	Value of shipments of goods	Value	Working and pa	owners	Emp	loyees	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		\$'0	00
1963								1					
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 99,999 100,000 " 199,999 200,000 " 499,999 500,000 " 999,999 1,000,000 " 4,999,999	53 41 45 56 48 52 35	25 56 114 265 439 781 1,012	50 110 236 555 937 1,691 2,230	58 176 382 906 1,544 3,114 4,401	2 15 44 109 217 399 1,241	269 722 2,644 5,647 9,129 22,781 25,437	513 1,399 4,175 9,523 16,045 40,563 50,764	249 691 1,539 3,987 6,882 17,484 24,222	31 18 9	74 84 55 — —	46 103 256 525 803 1,652 2,026 2,519	122 324 1,031 2,319 3,621 8,566 10,958	280 710 1.886 4,426 7.839 20,768 25,911 43,098
5,000,000 and over	} 22	1,291	2,730	5,455	734	36,502	75,793	38,471			134	779	590
Totals	352	3, 983	8,540	16,035	2,760	103, 131	198, 775	93, 527	58	213	8, 064	40, 784	105,508
1964													
Under \$10,000	53 51 46 57 46 49 38 25	23 85 124 281 398 761 1,108	43 171 262 592 851 1,616 2,440 2,892	58 270 427 954 1,510 3,018 4,932 5,935	1 27 47 144 190 448 683 1,273	281 1,363 2,237 6,882 10,051 20,209 28,460 41,945	530 2,317 4,031 11,195 16,781 36,424 56,418 86,403	246 852 1,493 4,135 6,606 16,157 27,514 43,440	34 17 12 2 -	73 666 73 11 — —	45 161 232 538 793 1,492 2,327 2,647	99 581 949 2,491 3,903 7,822 12,847 14,460	273 1, 138 1, 803 5, 082 8, 155 21, 661 29, 767 50, 034
Totals	365	4, 139	8, 866	17, 104	2, 813	111,428	214,099		65	223	8,397	44,003	

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

				Man	ufacturing	activity				Т	otal activ	vity	
Size group	Estab-		duction a		Cost of	Cost of	Value of shipments		Working and pa	owners artners	Empl	loyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	V alue added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		*000			\$'000				\$*000		\$'0	000
1963													
Under \$10,000 \$ 10,000 to \$ 24,999 25,000 '' 49,999 50,000 '' 99,999 100,000 '' 199,999 200,000 '' 499,999	50 43 38 57 50 46 43	23 56 92 240 458 587 1,149	46 111 195 497 975 1,270 2,532	53 175 313 806 1,619 2,265 4,955	1 15 29 110 221 277 1,318	247 718 1,804 5,991 8,874 16,803 29,952	480 1,383 3,052 9,564 15,623 30,857 57,590	237 682 1,268 3,660 6,639 13,982 26,425	31 18 8 1 -	74 84 43 12 —	36 107 108 508 787 1,197 2,304	89 341 725 2,201 3,520 6,086 12,370	237 728 1,353 4,178 7,135 15,064 29,148
1,000,000 ' 4,999,999 5,000,000 and over Head offices, sales offices and auxiliary units	25	1,378	2,914	5, 849	789	38,742	80,226	40,633		-	2,803	14,673 779	47,076 590
Totals	352	3, 983	8,540	16, 035	2,760	103, 131	198,775	93, 527	58	213	8,064	40,784	105, 508
1964													
Under \$10,000 10,000 to \$ 24,999 25,000 " 49,999 50,000 " 199,999 200,000 " 199,999 500,000 " 999,999 1,000,000 " 4,999,999	52 46 43 51 51 50 44	21 73 109 215 375 688 1,273	39 144 232 454 774 1,479 2,807	56 212 376 706 1,348 2,669 5,731	2 18 42 83 164 458 782	296 1,132 1,968 5,305 8,948 19,570 32,101	537 2,026 3,604 8,450 15,265 34,336 61,719	247 749 1,358 3,176 6,185 14,478 29,233	33 17 12 3 -	70 85 64 33 -	43 135 201 404 727 1,336 2,533	99 446 765 1,774 3,548 6,883 14,139	246 760 1,491 3,610 7,101 16,899 33,062
5,000,000 and over	} 28	1,385	2,936	6,006	1,266	42,107	88,164	45,016	_	-	2,856	15,500 850	54,743 685
Totals	365	4, 139	8,866	17, 104	2.813.	111.428	214.099		65	223	8, 397	44 003	118.598

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

				Mar	ufacturing	activity				7	Cotal acti	ivity	
Size group	Estab-		oduction ated work		Cost of	Cost of	Value of shipments	77.01	Working and pa	owners	Emp	loyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000		1	\$*000				\$'000		\$10	000
1963							İ	[,				
Under 5 employed	113 112 82 33 8 4	110 478 1,216 1,149 563 467	228 1,018 2,615 2,485 1,216 977	350 1.846 4.788 4,812 2,237 2,002	30 242 1,024 1,032 342 91	1,991 14,369 33,255 33,771 13,833 5,913	3,654 26,588 62,342 65,727 22,471 17,994	12,063 28,442 30,815 8,429 11,971	51 7	167 46 - - - -	203 955 2,417 2,323 1,046 986	690 4.747 12,315 11,989 4,968 5,296	1,891 13,164 30,367 34,727 10,174 14,595
auxiliary units			***	* * *	***	***			4		134	779	590
Totals	352	3,983	8,540	16, 035	2,760	103, [31	198,775	93, 527	58	213	8,064	40,784	105, 508
Under 5 employed	121 112 81 37 10 4	127 468 1,171 1,206 697 470	257 988 2,512 2,591 1,491 1,026	1,806 4,791 5,219 2,858 2,028	37 222 997 1,208 445 84	2,477 16,261 38,977 29,606 17,714 6,393	4,527 28,380 71,190 60,312 31,685 18,005	1,975 12,085 31,086 30,071 13,582 11,643	56 9	171 52 — — —	231 927 2,255 2,489 1,320 1,013	829 4,786 12,126 13,372 6,674 5,367	2, 161 16, 185 34, 545 34, 336 15, 819 14, 888
Totals	365	4. 139	8.866	17, 104	2,813	111, 428	214.099		65	223	8.397		118, 598

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

				Man	ufacturing	activity				7	Cotal acti	vity	
Type of organization	Estab-		duction ated work		Cost of	Cost of	Value of shipments			owners urtners	Empl	oyees	
or gaineanon	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	of goods of own manu- facture	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000			\$'000				\$'000		\$'(000
1963								1					
Individual ownerships	48	28	55	77	7	407	847	455	48	168	39	113	489
Partnerships	6	9	17	26	4	127	285	162	10	45	12	35	166
Incorporated companies	1												
Co-operatives	298	3,946	8, 467	15,932	2,749	102,598	197, 210	92,910	***	* * *	7,879	39,858	104, 263
Head offices, sales offices and auxiliary units					* * *					* # *	134	779	590
Totals	352	3, 983	8,540	16, 035	2,760	103, 131	198,775	93, 527	58	213	8, 064	40, 784	105, 508
1964													
Individual ownerships	49	45	88	124	8	608	1,142	545	52	168	61	171	629
Partnerships	7	13	26	37	4	149	338	193	13	55	19	53	196
Incorporated companies	309	4,081	8,752	16,943	2,801	110,671	212,619	99, 704		* * *	8, 155	42, 929	117,088
Head offices, sales offices and auxiliary units	***	* * 4					4 4 4	4 0 8		* * *	162	850	685
Totals	365	4, 139	8,866	17, 104	2,813	111,428	214, 099	100.443	65	223	8, 397	44,003	118.598

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

	Manufact activi		Non-manufa activiti		Tota activi	
	1963	1964	1963	1964	1963	1984
			\$*000	0		
Output	1				1	
1. Shipments and other revenue	198,775	214, 099	57,778	71,023	256, 553	285, 122
Inventorles - Goods of own manufacture:				V 3		
Add closing - Goods in process	1,190	1, 458		***	1, 190	1,458
Finished goods	16, 113	14,971	***		16, 113	14,971
Deduct opening-Goods in process	1, 141	1, 469			1,141	1,469
Finished goods	15, 518	14,375	• • •		15,518	14,375
2. Net inventory change	644	565	* * *		644	585
3, Gross output (1+2)	199,419	214,684	57,778	71, 023	257, 197	285,707
Input				142711		
4. Purchases of goods not of own manufacture	• • •		44, 558	52, 550	44,558	52, 550
Inventories - Goods not of own manufacture:		-				
Add opening		***	4,428	4,784	4,428	4,784
Deduct closing			4, 184	5,670	4, 184	5,670
5. Cost of goods sold (not of own manufacture)	***		44,802	51,664	44,802	51,664
6. Materials, supplies, etc.	103, 131	111, 428	994	1,203	104, 125	112,63
7. Fuel and electricity	2,760	2,813			2,760	2,813
8. Gross input (5 + 6 + 7)	105, 891	114,241	45,796	52,867	151,687	167,10
Value added (3 - 8)	93, 527	100, 443	11, 982	18, 155	105,508	118, 59

TABLE 8. Employment and Payroll, 1963 and 1964

					Employ	rees						Salari	es and wa	ges	
Year and		Product related			Admi trat			les	To	tal	Producti		Admin-	Sales	
province	Manufa	cturing	0	her	and o		distri				related w	orkers	istra- tive and	and distri-	Total
	Male	Female	Male	Female	Male	Female	Maie	Female	Male	Female	Manufac- turing	Other	office	bution	
					numb	er							\$'000		
1963		1		1	1				1						
Newfoundland	-	-	_	_	_	-	_		_	_	-	-	_		-
Prince Edward Island	-	-	_	-	_	_	-	_	-	-	Anna	_		-	_
Nova Scotia	1				***	0	1		29	3	97	_	73	3	173
New Brunswick	} 18	1	_	_	10	2	1		28	3	91	_	10	3	
Quebec	867	117	55	_	443	235	370	6	1,735	358	3, 553	120	3,570	2,516	9,75
Ontario	2,292	482	13	5	996	715	888	99	4,189	1,301	11,513	84	10,293	6,910	28,800
Manitoba	47	2	-	_	14	10	29	_	90	12	179	-	95	162	436
Saskatchewan	10	1	_	_	I I	4	4	_	25	5	41	-	72	27	13 9
Alberta	28	3	_	_	19	8	2	_	49	11	121	_	138	12	273
Brltish Columbia	107	8	_	_	69	34	37	2	2 13	44	532	-	419	256	1,20
Yukon and Northwest Terri- tories	_	_		_	_	_	_	_	_	_	-	_	_	_	-
Totals	3,369	614	68	5	1,562	1,008	1,331	107	6,330	1,734	16,035	204	14,660	9,885	40, 784
1964												1			
Newfoundiand	1														
Prince Edward Island	12	1	-	_	9	1	1	-	22	2	48	-	64	6	11
Nova Scotia	12	1 1			0					_					
New Brunswick	J						10					0.0		0.000	10.40
Quebec	880	1 19	41	_	408	243	385	5	1,714		3,766	99	3,927	2,693	10,48
Ontario	2,387	531	1	4	1, 127	737	966	96	4,461		12,356	25		7,582	
Manitoba	47	2	_	_	20	13	21	_	88	15	197	_	122	132	4.5
Saskatchewan	9	1	_	_	11	1	7	2	27	4	33	_	48	62	14:
Alberta	23	4		-	9	9	4	-	36	1	100	_	90	34	22
British Columbia	122	21		-	58	36	41	2	221	59	605	_	405	271	1,28
Yukon and Northwest Terri- tories	_	_	_	-	_		_			_	_	_	_		_
		670	40	A	1 642	1.040	1 428	105	6,569	1,828	17, 104	123	15.996	10,779	44.00
Totals	3,460	679	42	4	1,642	1,040	1,425	100	0, 309	1,848	17, 104	143	13, 550	10, 119	12,00

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

	196	3	196	4
Month	Male	Female	Male	Female
		numbe	er	
Establishments reporting monthly detail (large establishments only):		1		
January	2,862	4 59	2,950	620
February	2,878	618	2,975	600
March	2,891	528	2,987	573
April	2,970	557	3.069	598
May	3,026	566	3,103	596
Јипе	3,088	582	3,182	63 9
July	2,977	478	3,085	512
August		557	3,163	609
September	2,993	557	3,057	599
October	0.000	54.8	3,043	6 5 2
November	0.051	549	3,027	585
December	0.040	519	3,017	620
Averages	2 200	541	3,070	60
Establishments reporting annual averages (small establishments only)	400	73	390	78
Average for all establishments	3,369	6 14	3,460	679

TABLE 10. Inventories, 1964

		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	1					
Prince Edward Island	75	_	47	122	1	125
Nova Scotia						
New Brunswick	J					
Quebec	3,050	227	2,616	5,893	874	6,76
Ontario	12,494	1,097	10,647	24, 238	3,423	27,661
Manitoba	535	53	311	899	239	1,138
Saskatchewan	158	43	333	534	87	621
Alberta	232	7	228	467	5	472
Brilish Columbia	536	42	610	1,188	152	1,340
Yukon and Northwest Territories	-	_	-	-		-
Totals	17,080	1,469	14, 792	33, 341	4, 784	38, 125
Closing:						
Newfoundland	1					
Prince Edward Island	105	_	75	181	5	185
Nova Scotia	100		,,,	202		200
New Brunswick]					
Quebec	3,017	313	2,489	5,819	827	6,646
Ontario	13,563	975	11,323	25, 861	4,241	30,102
Manitoba	750	67	372	1,188	335	1,523
Saskatchewan	149	56	306	511	74	585
Alberta	103	8	361	472	51	523
British Columbia	495	39	497	1,032	137	1,169
Yukon and Northwest Territories	_	_	-	-	-	-
Totals	18, 183	1,458	15, 424	35,064	5, 670	40, 734

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

		196	3	1964	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
i. Large establishments reporting commodity detail:					
Bituminous coal:					
(a) From Canadian mines	ton	6,781	80	11,563	140
(b) Imported	4.0	14,324	164	7,419	84
Sub-bituminous coal (from Alberta mines only)	4.0	97	1	-	-
Anthracite coal	4.4	729	12	728	12
Lignite coal	d 9	-	-	-	-
Coke	04	20		~~	-
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	330,171	132	395, 264	151
Fuel oil including kerosene or coal oil	4.6	11,438,767	1,035	11, 959, 842	1,084
Wood	cord	1,866	9	440	2
Gas:		100000			
(a) Liquefied petroleum gases	Imp. gal.	18,295	5	43, 188	10
(b) Other manufactured gas	M cu.ft.	76,140	21	92,480	26
(c) Natural gas	44	250,010	168	260, 106	200
Other fuel			94		43
Electricity purchased	kwh.	75,388,177	696	81,019,316	739
Steam purchased			205	0 0 0	191
2. Small establishments not reporting commodity detail:					
Estimate for fuel and electricity			138	4 6 B	133
3. All establishments:					
Total fuel and electricity used		*	2, 760		2,813

¹ The difference between figures in this table and those in Table 7 arises from firms reporting output of 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
A. Manufacturers of Printing Inks

Description		1963		1964	
Description		Quantity	Cost	Quantity	Cost
. Materials used: Carbon black Driers Dry colours Dyes Flushed colours Glue Glycerine Cums and resins: Natural Synthetic Oils: China-wood (Tung) Linseed Petroleum ink oils Other oils Solvents (benzol, naphtha, alcohol, etc.) Varnishes Wax (beeswax, carnauba, paraffin, etc.) All other materials and components used Containers and other packaging materials and supplies used Operating, maintenance and repair supplies used (excluding fuel) Amount paid out to others for work done on materials owned by establishments Totals	lb.	1, 978, 432 45, 828 65, 938 483, 331 3, 881, 146 61, 633 68, 738 1, 481, 709 47, 028 902, 781 414, 443 85, 415 	\$'000 231 130 2.724 44 890 9 12 98 1,020 27 127 417 12 429 951 23 1,082 505 238 13 8,981	2, 148, 204 58, 217 80, 962 401, 412 4, 422, 861 49, 432 98, 964 1, 582, 211 108, 529 995, 020 308, 446 105, 532 	\$'000 261 158 2, 982 50 864 21 20 103 1, 185 17 169 434 18 519 881 38 1, 495 228 11 10, 009

B. Other Chemical Industries, n.e.s.

Description		1963		1964	1964	
Description		Quantity	Cost	Quantity	Cost	
deteriol a result			\$'000		\$'000	
Acetone	1b.	351,039	35	539. 735		
Avids:	4.6					
Crosylic (including cresols) Hydrochloric (muriatic)	6.6	160, 225 196, 504	27 13	357, 586 564, 704		
Olete	4.6	728, 644	134	652, 379	1	
Oxalic	4.6	152, 097	32	261,094		
Prosphoric	6.0	1,626,015	144	2, 324, 793		
Seric	4.6	982, 466 25, 404, 821	151 377	1,795.222 24.207.301		
Sulphuric, 100%		23, 404, 821	211	24, 201, 301		
Alcohol: Butyl (including isobutanol)	4.4	268, 049	65	300.479		
Ethyl		427. 306	510	641, 178		
Isopropyl		4,743,704	353	4,990,381		
Methyl		353, 573	227	474, 858		
Aldrin, technical	lb.	413, 142	374	255, 148		
Ammonia, anhydrous	4.6	4, 054, 865 393, 860	166 25	3, 846, 565 437, 099		
Arsenic, white (As ₂ O ₅) Arsenic acid (As ₂ O ₅)		457, 470	18	435, 440		
Asphall		474, 146	89	902. 816		
Bones		9,900	378	9, 916		
Botax	lb.	1,634,261	94	1,718,065		
Calcium arsenate	44	64, 607	5	40, 094		
Calcium carbonate (whiting and chalk)		1, 317, 783 1, 638, 998	32 55	1.633.949		
Carbon black	4.4	333, 976	40	2, 303, 907 366, 327		
Carbon tetrachloride	4.4	591, 554	79	363. 757		
Casein	6.0	711, 909	158	794, 071		
China clay (kaolin)	44	3, 582, 363	78	3, 424, 320		
Copper sulphate	44	155, 564	42	156, 601		
D.D.T. (dichloro, diphenyl trichlorethane)	44	990, 758 10, 220, 282	1,021	769, 032 11, 022, 004	1.	
Dry colours		10, 220, 202	250	11,022,003	Α,	
Ethanolamines (mono, di, tri)	lb.	1,864,668	479	1, 990, 581		
Ethylene glycol (see also "glycols, other")	6.6	13, 619, 715	1,849	8, 253, 492	1,	
Fiour:	6.6	E4 017	-	107 500		
Potato Tapioca	44	54, 917 215, 246	24	137, 532 206, 716		
Wheat	44	4. 672. 022	201	4.006.752		
Other	64	132, 544	8	187, 005		
Formaldehyde, 100% solids basis	44	2, 249, 295	312	1, 184, 053		
Glycerine	4.6	857, 800 382, 972	210 86	872, 402 662, 853		
Glucose	4.6	445, 001	41	592, 596		
Glue:			1			
Bone and hide	8.6	1,090,763	309	1,046,752		
Fish	44	366. 312	63	216, 551		
Grease	21	1, 141, 874	82	1, 282, 199		
Gums and resins, natural Hides and hide trimmings	ton	658, 765 19, 117	196 277	660, 460 19, 630		
Iron, scrap	1011	1, 302	24	1, 673		
Lignin liquor	Imp. gal.	418, 479	62	557, 165		
Laime	ton	2,931	55	3, 939		
indane, technical	lb.	42, 839	52	51, 696		
Litharge	1.6	365, 046	45	390,887		

TABLE 12. Materials and Supplies - Manufacturing Activity, 1963 and 1964 - Concluded B. Other Chemical Industries, n.e.s. - Concluded

		1963		1964	
Description		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
. Materials used – Concluded: Malathion, technical Naphthalene		83,141 17,793,680	82 847	79,242 12,566,681	8 56
Oils: Castor	4 +	460,963	87	561,000	10
China-wood (Tung) Cocoanut	2.5	53,911 675,602	24 108	88.598 1,298,575	22
Cod		468, 702	37 1,064	798,277	1,13
Essential Fish	lb.	1,089,329 1,487,053	130	1, 189, 293 1, 747, 805	14
Linseed:		1,401,003	189	1, 141, 005	44
Raw		73,683 17,923	99	87, 168 14, 713	10
Mineral	11	807,703 200,794	176	1,019,458	1
Neat's foot		584,672	94	1, 194, 817	2
Siticone oil Soyabean	11	47,075 1,707,932	112 204	56, 506 2, 062, 893	1 2
Tall (refined and crude)Other oils	47	26,621,870 3,411,800	1.015	29,944,642 4,538,953	1, 1
Paradichlorobenzene		2,487,672	287	2,732,721	3
Pentachlorophenol Petroleum distiflates (naphtha, gasoline, etc.)		79,172 4,464,790	1,442	93,702 5,293,596	1,5
Phenol Phosphorus, amorphous	lb.	1,072,201 28,830	135 16	1,689,721	2
Phosphorus sesquisulphide		29,667	12	30,614	
Phthalic anhydridePotassium bichromate		570,164 62,907	65 15	695, 421 125, 355	
Potassium chlorate		806,066 1,168,584	105	861,006	1
Potassium hydroxide (caustic potash)	****		111 228	1,522,371	2
Resins, synthetic		22,069,861 177,660	4, 526	23,317,491 153,456	4,6
Rubber or latex		4,771,547	1,617	5,780,280	1,6
Shellac: Bleached	44	215, 499	120	190, 435	10
Orange		29,231	10	36,551	
Other grades	44	1,303,497 4,261,491	257 47	900,172 4,259.601	1
Sodium bichromate Sodium carbonate (soda ash)		841,992 7,769,185	120	778.075 8,550,493	1 2
Sodium chlorate		716, 263	54	643,110	
Sodium fluoride		250,872 11,190,916	32 413	261,813 14,993,573	5
Sodium, phosphates of: Monosodium phosphate	4.9	396, 562	48	443,119	
Disodium phosphate	11111	564,639 1,538,568	56 105	690, 254 1, 832, 522	1
Trisodium phosphate		51,608	5	7,178	
Sodium tripolyphosphate	2.000	2,920,534 500,024	298	3,271,220 787,247	3
Starch, corn	.,,,,,	1,471,557 1,152,265	158 178	1,527,928	1 1
Sugar Sulphur	1111	8,353,964	116	7, 952, 663	1
Taic, ground		4,301,471 26,312,020	3,044	4,113,064	3,0
Titanium oxide	lb.	1,000,843	225 230	1,072,107 4,865,088	2
Toluol (toluene)	Imp. gal.	5,416,707	11	20,892	
Jrea	lb.	2,791,236	167	4,383,506	2
Wax: Beeswax		139,811	81	102, 202	
Candeliila Carnauba		9,964 249,893	154	8,880 289,981	1
Paraffin (including slack wax)	21077	64,471,917	2,578	67, 387, 150 1, 562, 792	2,5
Synthetic Other waxes	11111	798,909	165	1,187,198	2
Xylol (xylene)		4,970,655 341,509	213 49	4,694,633	2
Zinc sulphate		902.325 4,341,213	1,559	538,702 4,575,156	1.6
2, 4-D, technical	cord	17,306	161	15,673	1
Paper board	M. bd. ft.	9,475,799	885 48	11,104,573	1,0
Wood splints All other materials and components used ¹	4 1 0 0 0	0 4 4	40,980	4 4 4	45.7
Containers and other packaging materials and supplies used		***	15,616		15,6
Operating, maintenance and repair supplies used (excluding fuel)			1,631		1,8
Amount paid out to others for work done on materials owned by establishments			267		I,1
Totals			94,151	* * *	101,4
Grand totals			103,131		110, 4

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$8,057,432 in 1963 and \$7,482,895 in 1964.

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964
A. Manufacturers of Printing Inks

IV-relation	1963		1964	
Description	Quantity	Value	Quantity	Value
		\$'000		\$'000
Products: Printers' inks: Newspaper	17, 373, 647 7, 720, 684 3, 561, 311 8, 709, 579	2, 261 7, 298 5, 694 4, 379 323 441	17,312,066 6,299,501 3,680,695 10,802,978	2,306 6,479 5,875 5,517 289 515
2. Amount received in payment for work done on materials and products owned by others	_	_	_	1001
Less adjustment for value of sales taxes, exclse duties and outward transportation charges which could not be deducted from individual commodity items described above		(19)		(23
Net adjustment for establishments receiving progress payments	_		-	_
Total adjusted value of shipments and work done	* * *	20,377	4 2 4	20,959

B. Other Chemical Industries, n.e.s.

		1963		1964	
Description		Quantity	Value	Quantity	Valu
			\$1000		\$'00
Products:					
Adhesives and cements: Linoleum cement	ib.	7, 378, 265	452	4, 895, 385	3'
Rubber adhesives:	40.	1,510,200	102	1,000,000	
Neoprene	gal.	367,646	1, 436	489, 167	1.9
Reclaims	4.6	25, 646	80	67, 174	2
Other (including natural rubber)		194,484	698	264, 854	8
Synthetic resin adhesives:					
Polyvinyl acetate	lb.	15, 898, 328	4,766	19,651,063	6,0
Other			1, 211		7
Glue:	11		4 800	0 000 000	
Bone and hide	lb.	7,545,818	1,773	6, 276, 378	1,5
Casein	**	1,241,764 250,717	240 118	443,675	
Fish		3, 242, 652	657	2,660,262	6
Vezetable:		5, 444, 004	051	2,000,202	0
Dry	6.0	2, 243, 697	328	4, 199, 887	6
Liquid		15, 133, 546	1,755	17, 114, 101	2,0
Mucilage	#4	294,055	233		1
Paste:					
Dry	# #	1, 341, 362	217	1	t
Liquid		10, 035, 190	1,362	9,650,301	1,4
Adhesives and cements, other			2, 185		1,9
Automobile chemicals:					
Antifreeze preparations		1,312,981	2,965	961,753	1,9
Brake fluids		231,729	845	298, 904	9
Radiator compounds			286 1,923	6.6	2
Other			1, 525		2, 76
For use by railroads		4.	174	* *	19
For marine use			157		1
For industrial use			4,059		5, 1
Caulking compounds	lb.	3,011,457	372	4,871,969	4
Charcoal	ton	15,098	1,024	20, 599	1.1
Cleaning preparations and washing compounds:					
Drain pipe cleaner		152,740	21	45, 557	
Floor cleaners		1 000 504	909	250 005	8
Hand cleaner		1,069,534	210	759,997	2
Scouring pastes and powders			45 899	77.393	1 0
Toilet bowl cleaner Other cleaning preparations and washing compounds		5, 449, 224	4,626	3,780,534	1.0
Concrete admixtures (hardeners and proofers)		* *	3.757	* *	4.1
Creosote oil		8, 538, 377	1.684	7, 286, 306	1. 3
Deodorants (except personal).	Time Boar	0,000,011	1,727	1,200,000	1.8
Detergents (synthetic organic)	1b.	16,054,102	2,555	19,513,297	3, 2
Dextrines	4.6	3, 974, 529	359	4,753,269	4
Disinfectants			1,301		1,3
Embaiming fluid		4 4	345		3
Fuel oil additives		h 4	1, 189	0.0	2
lnk, writing			65		
Lacquers		244, 672	697	371,986	9
Leather dressings and finishes (except polish)			1,837	4 *	2,0
Lighter fluid	No of books	943, 927, 000	290 3,598	1 104 602 017	4 1
Matches, in books	No. UL DUOKS	543, 321, 000	3, 398	1, 124, 683, 317	4, 1
Castor	lb.	442, 160	51	422,760	
Cocoanut		59, 427	10	54, 575	
Neat's foot	4.6	119.959	27	183, 637	
Other, including special blends	£4	2, 238, 442	269	1, 778, 820	2
Oils, except sulphonated	**	11,660,404	2,050	15, 169, 594	2.6
Paints, ready mixed (interior and exterior types)	Imp. gal.	451, 787	1, 231	338,682	1. 2

Confidential, included with "All other products".

TABLE 13. Shipments of Goods of Own Manufacture, 1963 and 1964 - Concluded B. Other Chemical Industries, n.e.s. - Concluded

		196	3	1964	
Description		Quantity	Value	Quantity	Value
			\$'000		\$'000
			\$.000		\$.000
Products - Concluded:					
Pest control products: Agricultural dusts and sprays (arsenicals, synthetic organics, copper compounds and seed treatments). Herbicides (chlorates, borates, 2, 4-D, 2, 4, 5-T, etc.) Other agricultural dusts and sprays. Household and industrial insecticides (fumigants, powders, dusts, sprays and repellents) Rodenticides (mouse and rat poisons, gopher poisons, etc.) Other pest control products			2,710 6,178 5,679 180 2,105		2, 891 7, 181 5, 276 161 1, 937
Pltch.		89,210	3,426	90,072	3,781
Polishes: Automobile			843		840
Brass Floor wax:		• •	23		33
Paste Liquid (including self-polishing)		7, 215, 857 4, 496, 487	3,489 13,301	6, 70 3,602 4, 7 19, 708	
Fumiture: Cream Oil			1 14 456	0 0 d 0	116 385
Silver: Paste, liquid or cream			59	+ 4	49
Shoe: Paste Liquid or cream Other pollshes		4 0	924 1,090 70	4 * 0 0 4 4	964 1, 194 66
Printers' rollers (see also Section A)			821	4.0	933
Rust preventatives		* *	825		1,070
Soaps: Liquid. Soft Textile Other.	4.0	8, 214, 192 52, 503 355, 843 3, 088, 574	1,965 7 80 414	7,017,288 92,761 195,639 4,831,691	2, 276 13 43 624
Sweeping powders		4 0	1,033		983
Tar, refined		496, 992	111	879,210	185
Textile and leather specialties		• 4	5,526	4 0	3,994
Wood preservatives		4.0	726	* 4	718
Ali other products		***	68,997		78,747
Amount received in payment for work done on materials and products owned by others		9 9 8	935		1, 118
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above			(2,760)		(3,443
Net adjustment for establishments receiving progress payments		_	-	-	_
Total adjusted value of shipments and work done		***	178,398	4 + +	193,140
Grand totals			198,775		214.099

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

A. Printing lnks and Printers' Rollers, 1960-64

Year	Printing i	Printers' rollers and composition	
	pounds	\$'000	\$'000
1960	33, 557, 000	16,339	1,089
1961	35, 539, 000	17,698	1,065
1962	37, 118, 000	19,392	1,060
1963	38, 557, 000	20,322	1, 144
1964	40, 212, 000	22, 034	1, 223

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued B. Writing Inks, 1960-64

Year	Selling value at plant
	\$*000
960	556
96]	650
962	636
963	600
964	482

C. Boiler Compounds, 1960-64

	Selling value at plant						
Year	For use by railroads	For marine use	For industrial use	Total			
	\$'000						
1960	189	158	3,974	4, 32			
1961	190	189	3,976	4, 355			
1962	182	174	3,948	4, 304			
1963	174	157	4,063	4,394			
1964	192	182	5, 170	5,544			

D. Charcoal, 1960-64

Year	Quantity
	tons
960	17,411
961	13, 398
962	17,324
963	15,098
964	24, 294

E. Disinfectants and Deodorants, 1960-64

Van	Selling value at plant		
Year	Disinfectants	Deodorants	
	\$,000		
960	1,387	1,594	
961	1,218	1,613	
962	1,844	1,909	
963	2,448	2,034	
964	2,428	2,395	

F. Pest Control Products of All Kinds, 2 1960 - 64

Year	Selling value at plant
	\$'000
960	11, 156
061	12, 962
062	13,969
063	12,943
964	12, 348

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued G. Book Matches, 1960-64

Year	Quantity	Selling value at plant
	No.	\$'000
960	727,604,000	3,025
961	747, 034, 000	3.023
962	864, 146, 000	3, 372
963	943, 927, 000	3,597
964	1, 124, 683, 000	4, 146

H. Sweeping Compounds, 1960-64

Year	Selling value at plant
	\$'000
960	1, 337
961	1, 104
962	1.055
963	1.095
964	1.051

1. Herbicides (Weed Killer), 1960-64

	Year	Selling value at plant
-		\$'000
1960		3,572
1961		4.252
1962		6, 051
1963		6, 205
1964		7. 181

J. Polishes, 1962 - 64

Product		1962	1963	1964
Floor wax, paste	1b.	8, 413, 000	8, 112, 000	7, 524, 000
Ploor wax and polish, liquid ³	1mp. gal. \$'000	5, 015, 000 14, 641	5, 289, 000 15, 419	5, 526, 000 15, 998
hoe polishes and dressings Furniture polish	p.4	2, 301 762	2.491	2, 739 609
tove polishes trass polishes	0.0	107	175	16:
ilver polishes	4.5	140 929	221 844	19' 840
Totals	F.E.	22, 783	23, 736	24, 24

K. Creosote Oils, Pitch and Refined Tars, 1960-64

Year	Creosote and other oils	Pitch	Refined tar, tarvia, etc.
	lmp. gal.	tons	Imp. gal.
1960	14.079,000 9,202,000 7.418,000 8.881,000 7.551,000	127, 000 84, 000 90, 000 87, 000 100, 000	2, 630, 000 3, 754, 000 6, 131, 000 3, 610, 000 1, 845, 000

L. Crude Tar Used in Tar Distilleries, 1960-64

Year	Imp. gal.
960	37, 277, 000
661	30, 551, 000
662	32, 818, 000
663	30, 950, 000
664	30, 975, 000

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1963 and 1964 - Concluded M. Adhesives and Cements, 1963 and 1964

	19	63	1964		
A Balt	Quantity	Value of factory shipments	Quantity	Value of factory shipments	
		\$'000		\$'000	
Linoleum cement		979		891	
ubber adhesives:					
Neoprene gal.	447,000	1,711	596,000	2, 342	
Reclaims	54, 000	167	110,000	318	
Other (including natural rubber)	1,538,000	3, 781	1,367,000	4, 613	
ynthetic resin adhesives:					
Polyvinyl acetate	15, 898, 000	4,766	19,651,000	6, 038	
Other	4	4	4	4	
ilue:					
Bone and hide ⁵	7,546,000	1,773	6,276,000	1, 55	
Casein	1,652,000	366	1,032,000	24	
Fish		309		26	
Flexiblelb.	3,243,000	657	2,660,000	631	
Vegetable:					
Dry	2,244,000	3 28	4, 200, 000	620	
Liquid	15, 134, 000	1,755	17, 114, 000	2, 08	
lucilage and paste		1,812		1,86	
Oextrines ⁶			14,850,000	1,42	
Adhesives and cements, other	* *	4,009		3,699	

¹ Does not include personal type.

² Calcium arsenate, lead arsenate, lime-sulphur solution, Paris green, sodium arsenate, sodium arsenite and special poisons, sprays, powders, etc., usually classed as pest control products, are included in this category; herbicides shown separately in Table 1 are not included.

Includes self-polishing wax.

Includes self-polishing wax.

The largest volume of adhesives in this class is accounted for by a group of urea-formaldehyde and phenal-formaldehyde resin solutions which are sold for other applications as well. Underthese circumstances it is difficult to develop separate comprehensive figures for this class of adhesive which are not likely to be subject to misinterpretation. For this reason details on this class of adhesive are omitted; however, the reader is referred to totals for urea-formaldehyde and phenol-formaldehyde resins for all applications which are carried in Table 5 of the report. Manufacturers of Plastics and Synthetic Resins, Catalogue No.

46-211.

5 Includes some imported glue used to increase the bonding strength of this type of glue.

6 Listed for first time in 1964. Not previously considered as "Adhesives" for the purpose of this compilation.

		Manufacturing activity					T	otal activ	ity				
Year and industry	industry ments fuel and materials of goods Val		**-144.0	Working and pa			otal oyees	Total					
		Number	hours	Wages	elec-	and	of own add	and of own supplies manu-	added	Number	With- drawals	Number	Salaries and wages
	No.		'000			\$ '000				\$'000		\$'0	00
Manufacturers of printing inks:													
1961	32	630	1,370	2,674	193	8,362	19,038	10, 571	x	х	1,122	5, 656	11,512
1962	34	662	1,402	2,753	191	8,613	20,056	11,535	3	5	1,202	6, 083	12,703
1963	35	674	1,406	2,874	205	8, 981	20,377	11,353	x	x	1,215	6,402	12,713
1964	37	691	1,497	3, 164	220	10,009	20,959	10,779	х	х	1,242	6,876	12,443
Other chemical industries, n.e.s.:													
1961	'313	3, 126	6,605	11,463	2,367	77,241	150, 206	72,553	х	х	6,661	30, 445	81,170
1962	313	3,232	6,728	12,079	2,499	87, 192	167, 207	77,558	67	240	6,747	32, 243	87,752
1963	317	3, 309	.7, 134	13,160	2,556	94, 151	178, 398	82, 174	x	х	6,849	34, 381	92, 795
1964	328	3,448	7,368	13,940	2,593	101,419	193, 140	89,664	x	x	7,155	37, 127	106, 155

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

A. Manufacturers of Printing Inks

A. Manuacuneis	of Litting flavs
Quebec:	1
Ault and Wiborg Co. of Canada Limited, The Canada Printing Ink Company Limited, The Columbia Carbon (Canada) Ltd. Com. Lith. Chemicals Ltd. Frontenac Ink Works Limited Gresham Company Reg'd., The Parkinson Inks (Montreal) Ltd. Sinclair and Valentine Company of Canada Limited Schmidt Printing Inks of Canada	5520 Chabot, Montreal 8490 Jeanne Mance, Montreal 7147 Park Ave., Montreal 130 Dupont St., Montreal 400 Aqueduct St., Montreal 1081 Smith St., Montreal 6588 Esplanade Ave., Montreal 6765 Hutchinson, Montreal 880 De l'Epée, Montréal
Ontario:	
Ault and Wiborg Co. of Canada Limited, The Bowers Printing Ink Co. of Canada Ltd. Canada Printing Ink Company Limited, The Canadian Fine Color Co. Limited Columbian Carbon (Canada) Ltd. Gaetjens, Berger and Wirth (Canada) Ltd. General Printing Ink Corporation of Canada Ltd. Hendershot Inks Ltd. Hostmann-Steinberg (Canada) Ltd. Inter-Provincial Inks Limited Kohl and Madden Printing Ink Co. of Canada Ltd. Manton Printing Inks Ltd. Markrite Manufacturing Company Parkinson Inks Ltd. Reiger, Flexo and Gravure Ltd. Reiger Printing Ink Co. Ltd. Sinclair and Valentine Co. of Canada Ltd. Tanzer Printing Inks Ltd. Toronto Star Ltd.	82 Peter St., Toronto 345 Cariaw Ave., Toronto Brockhouse Rd., Toronto 2 Sheffield St., North York 24 Bethridge Rd., Rexdale 440 Birchmount Rd., Toronto 821 Queen St., Toronto 240 Logan Ave., Toronto 28 Nashville Ave., Toronto 28 Nashville Ave., Toronto 24 Ronson Dr., Rexdale 133 Cartwright, Toronto 1020 Church St., Toronto 445 Nightingale, London 84 Martin Ross Rd., Downsview 41 Clarkson Ave., Toronto 240 Madison Ave., Toronto 588 Eastern Ave., Toronto 20 Queen's Quay E., Toronto
Manitoba:	
Ault and Wiborg. Co. of Canada Limited, The Sinclair and Valentine Company of Canada Limited	321 Stanley, Winnipeg 800 Berry St., St. James
Alberta:	
Ault and Wiborg Co. of Canada Limited, The Canada Printing Ink Company Limited, The	310 - 2nd St. E., Calgary 10333 - 112th St., Edmonion
British Columbia:	
Ault and Wiborg Co. of Canada Limited, The Columbia Printing Ink and Roller Co. Ltd. Columbian Carbon (Canada) Ltd. Rieger Printing Ink Co. Ltd. Sinclair and Valentine Company of Canada Limited	496 Prior, Vancouver 1410 William St., Vancouver 1370 E. Georgia St., Vancouver 688 Derwent Way, New Westminster 1277 E. Georgia St., Vancouver

B. Other Chemical Industries, n.e.s.

Newfoundland:	
Evergreen Products Ltd.	Elizabeth Ave., St. John's
Prince Edward I sland:	
Hancock Laboratories	Summerside
Nova Scotia:	
Christie Products Marden-Wild of Canada Ltd. Nu-Day Cleaning Products Nu-Mac Manufacturing Company Limited Swift Canadian Co. Ltd.	6116 Almen St., Halifax
New Brunswick:	
Laurentides Chemicals Inc.	Richibucto
Quebec:	
Actol Chemical Ltd. Adams Chemical Company Limited Aerocide Dispensers Quebec Ltd. Allaire, A.E. Reg'd Anachemia Chemicais Ltd. Anti-Hydro of Canada Ltd. Arol Chemical Co. Ltd. Avmor Limited B.B. Chemical Co. of Canada Ltd. Bardahi Lubricants (Canada) Ltd. Barschel and Co. Bean, D.D., and Sons (Canada) Ltd. Betz Laboratories Ltd. Bilodeau, Claude	[57]0 Royalmount Ave., Montreal 2071 Fiorian, Montreal 500 - 2nd Ave., Ville St-Pierre 2070 Harvard St., Montreal 2520 Bates Rd., Montreal 431 St. Helen, Montreal 4445 Hochelaga St., Montreal

Quebec - Concluded:

Location

B. Other Chemicals Industries, n.e.s. - Continued

Blachford, H.L., Limited	977 Aqueduct St., Montreal
Canadian Adhesives Ltd, Carron, Joseph	410 Marien Ave., Montreal East La Macaza
Carter's Ink Co. of Canada Ltd.	4501 Drolet St., Montreal
Cartier Chemical Co. Ltd.	445-21 Ave., Lachine
Cascade Charcoal Co.	L' Annonciation
Charcoal Supply and Sales of Quebec Ltd.	Weedon Centre
Chipman Chemicals Limited	Buckingham 9120 St-Laurent, Montreal
Clough Chemical Company Limited	St-Jean
Colloids of Canada Ltd.	Granby
Combustion Chemical Co. Reg'd.	St-Basile Le Grand
Commercial Alcohols Ltd.	3120 Notre Dame St. E., Montreal
Dansereau, Alex., Cie, Ltée	St-Boniface
Davis Irwin Limited Davison Chemical Co. Ltd.	Town of Mount Royal Valleyfield
Dominion Flour and Paste Co., The	2619 Charlemagne, Montreal
Domtar Chemicals Ltd	Ville La Salle
Dorset Industrial Chemicals Ltd.	120-21st Ave., Lachine
Dufresne, Paquet et Cle, Ltée	St. Raymond
Durable Products Reg'd.	4219 Hogan, Montreal
Durai Products Ltd. Dust-Less Sweeping Powder Enrg.	Dorval Station 1280 Ste-Elizabeth, Montreal
Dust-No-Dirt Mfg. Co.	6572 Chateaubriand, Montreal
Entrol Limited	571 Robert St., Lachute
Faymor Chemicals Ltd.	Greenfield Park
Grace, W.R. and Co. of Canada Ltd.	255 La Fleur Ave., Ville La Salle
Industrial Adhesives Ltd. Inter-City Petroleum Co.	2524 Bois Frank Rd., St-Laurent
Jerpaco Ltd.	3745 Gouin Bivd. East, Montreal 7680 Notre Dame W., Trois-Rivières
Kem-O-Tex Chemicals Ltd.	425-21st Ave., Lachine
Kempac Corp.	8677 Delmeade Rd., Montreal
Kennedy, W. Alan, Limited	112 McGill St., Montreal
Kleen-Flo Corp.	8677 Delmeade Rd., Mount Royal
Laboratories Choisy Ltée	Louiseville
La Compagnie Unica Laurentian Concentrates Ltd.	6715 Chateaubriand, Montreal Thurso
Laurentide Chemicals Inc.	Shawinigan Sud
Les Produits Marquette Limitée	25 Courcelette, Quebec
Lignosol Chemicals Ltd.	Box 2025, Quebec
Madelon Degel Enrg.	6296 St-André, Montreal
Magnus Chemicals Ltd.	4040 Masson St., Montreal
Metasol Canada Ltd. Moran Chemical Co. Ltd.	333 Canal Rd., Lachine 7944-14 Ave., Ville St-Michel
Morvan Ltd.	531 St-Louis, Lachine
National Charcoal Co.	L'Annonciation
National Starch and Chemical Co. Canada Ltd.	2125 Rembrance Rd., Lachine
Osmose Wood Preserving Co. of Canada Ltd.	1080 Pratt Ave., Outremont, Montreal
Para Products Corp. Ltd.	7477 - 18 Ave., Ville St-Michel
Pentagon Chemicals Limited Pope, Alien, Products Reg'd.	Greenfield Park
Printeraft Supply Co. Ltd.	385 Concord, Montreal 254 Queen St., Montreal
Produits Chimiques Empire Inc.	720 St-Vallier W., Quebec
Produits Durables Enrg.	4219 Hogan, Montreal
Produits Lypol Products	Pont Viau
Protection Chemical & Aerosol Products Ltd.	5747 Souligny St., Montreal
Quinn, K.J., and Co. (Canada) Ltd.	Granby
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd.	Granby 144 Laurier St., St-Jean
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Biacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd.	Granby 144 Laurier St., St-Jean 150 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 - 4th Ave., Ville St-Pierrer 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159 -4th Ave., Vilie St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Desiauriers St., St-Laurent 238 St-Vallier East, Quebec
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Biacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited. Swift Canadian Co. Ltd. Trio Packaging Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159 -4th Ave., Vilie St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre
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Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 189-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd. Wonder-Sweep Mfg. Reg'd.	Granby 144 Laurier St., St-Jean 1550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. I, Val Limoges 7498-19th Ave., St-Michel, Montreal 5621 Casgrain Ave., Montreal 1501 Bercy St., Montreal St. Andrews East
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 189-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 5621 Casgrain Ave., Montreal 1501 Bercy St., Montreal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. I, Val Limoges 7498-19th Ave., St-Michel, Montreal 5621 Casgrain Ave., Montreal 1501 Bercy St., Montreal St. Andrews East
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 169-4th Ave., Villie St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 189-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 2003 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. I, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd. Detario: Accratex Products & Dev. Ltd. Acheson Colloids (Can.) Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. I, Val Limoges 7498-19th Ave., St-Michel, Montreal 5621 Casgrain Ave., Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough Shaver St., Brantford
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Biacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd. Ontario: Accratex Products & Dev. Ltd. Acheson Colloids (Can.) Ltd. Adams, J.C., Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 175 Lagauchetiere St. W., Montreal 169-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. I, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough Shaver St., Brantford Orangeville
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd. Acheson Colloids (Can.) Ltd. Acerocide Dispensers Limited	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Desiauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough Shaver St., Brantford Orangeville Rexdale
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robinson, Prescott W., Sales Co. Ltd. Royal Ink and Biacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wonder-Sweep Mfg. Reg'd. Wood, G.H. and Co. Ltd. Ontario: Accratex Products & Dev. Ltd. Acheson Colloids (Can.) Ltd. Adams, J.C., Co. Ltd.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal-Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Deslauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough Shaver St., Brantford Orangeville Rexdale 10 Dell Park Ave., Toronto
Quinn, K.J., and Co. (Canada) Ltd. Richelieu Chemical Co. Ltd. Robert Chemical Co. Ltd. Robertson, J.S. Ltd. Robertson, Prescott W., Sales Co. Ltd. Royal Ink and Blacking Co. Sanfex Corp. (Canada) Ltd. Service Adhesives Corp. Sew Fast Sales Reg'd. Sherwin-Williams Co. of Canada Ltd. Siltan Chemicals Reg'd. Stahl Finish Co. (Canada) Ltd. Success Wax Limited Swift Canadian Co. Ltd. Trio Packaging Ltd. Union Products Inc. Utility Products Co. Vac Inc. Vaillancourt, A. Waldox Corporation West Chemical Products Ltd. Wolverine Products and Sales Ltd. Wood, G.H. and Co. Ltd. Detario: Accratex Products & Dev. Ltd. Acheson Colloids (Can.) Ltd. Aerocide Dispensers Limited Aerosol D.D.T. Bug-Blitzer Co.	Granby 144 Laurier St., St-Jean 550 Sebastopol St., Montreal 175 Lagauchetiere St. W., Montreal 159-4th Ave., Ville St-Pierre 17 Ontario St. E., Montreal 8203 Montreal - Toronto Blvd., Montreal West 10001 St-Vital St., Montreal North Lachute 2875 Centre St., Montreal St-Joseph 380 Desiauriers St., St-Laurent 238 St-Vallier East, Quebec 215 Maguire St., Montreal St-Janvier 155 Richer St., Ville St-Pierre 911 Ontario St. E., Montreal Ville St-Michel R.R. 1, Val Limoges 7498-19th Ave., St-Michel, Montreal 1501 Bercy St., Montreal St. Andrews East Mount Royal Scarborough Shaver St., Brantford Orangeville Rexdale

Location

B. Other Chemical Industries, n.e.s. - Continued

	ndustries, n.e.s Continued
Ontario - Continued	
Albany Chemical Products Ltd.	
Alkaril Chemicals Ltd.	
Anchem Products Inc.	
Apco Chemicals Ltd.	
Archer-Daniels-Midland Co. (Canada) Ltd.	200 Fairbank Ave., Toronto
Ardox Limited	Niagara on the Lake
Barrett Co. Ltd., The	
Beacon Chemicals of Canada Limited	
Bell Chemicals Ltd.	83 Mead Ave., Hamilton
Bellak Brothers Limited	1 Croft St., Toronto
Berlou Company (Canada) Limited, The Bird-Archer Co, Limited, The	Box 84, London Cobourg
Blachford, H.L., Limited	
Blue Bird Dust Absorder	452 McArthur Rd., Ottawa
Bobby Calf Finishes and Dyes	Newmarket
Borden Chemical Co. (Canada) Ltd., The Boyle-Midway (Canada) Ltd.	
Bubble Bath Laboratories Ltd.	
Budget Products Limited	West Lome
Bush Roller Co. Ltd.	
C.C. Chemicals Ltd. Canada Glue Co, Ltd.	
Canada Rex Spray Company Limited	
Canadian Aniline and Extract Co. Limited	162 Ward Ave., Hamilton
Canadian Chem-Fuel Additive Corp. Ltd.	
Canadian Heimitan Co. Ltd., The Canadian Self Spray Dispensers	
Canadian Shaler Products Company Limited	29 Dartnell Ave., Toronto
Canadye Corporation, The	129 Rebecca St., Hamilton
Capo Polish Limited, The	Burlington
Carter, Y.J., Limited	139 Stephsenson Ave., Toronto
Chemspec Ltd.	
Chevron Chemical (Canada) Ltd.	Oakville
Chipman Chemicals Ltd.	
Commercial Oil Co. of Hamilton Ltd., The Compagnie Parento Limited	420 Jackson St. W., Hamilton Scarborough
Connecticut Chemical (Canada) Ltd.	Curity and Hollinger Rds., Toronto
Continental Chemical Co.	275 Ellerslie, Ave., Willowdale
Copeland Products	
Cromac Chemical Co. Limited	
Dearborn Chemical Company Limited	
Delpex Adhesives Ltd.	133 Jefferson Ave., Toronto
Dodge Chemical Co. (Canada) Ltd., The	
Domtar Chemicals Ltd. Deodor-x Company of Canada Limited	
Drew, Chemical Ltd.	Ajax
Dubols Chemicals of Canada Ltd.	Weston
Dura Chemical Co.	
Dustbane Mfg. Co, Ltd. Dye and Chemical Co, of Canada Ltd.	
Eckels, H.S. and Company (Canada) Ltd.	349 Olivewood Rd., Toronto
Eddy Match Company Limited	Pembroke
Elco Lubricant of Canada Ltd	
Epoxylite of Canada Ltd.	Fort Erie
Everett and Barron of Canada Ltd.	914 Dufferin St., Toronto
F.M.C. Machinery and Chemicals Ltd.	
Fairview Chemical Company Flexpac Products Ltd.	
Forsythe Lubricating Associates Ltd.	203 McNabb St. S., Hamilton
Frisco Builders Specialty Ltd. Fuller, H.B. Co. (Canada) Ltd.	Thomhill
Fuller, H.B. Co. (Canada) Ltd.	215 Midwest Rd., Scarborough Rear I63 Manning Ave., Toronto
General Sawdust Supply	
Grant Products Ltd.	Don Mills
Halton Chemical Co. Ltd.	
Hart Chemical Ltd. Hercules Powder Company (Canada) Ltd.	P.O. Box 450, Guelph Burlington
Holcomb, J.I., Mfg, Co. of Canada Ltd.	890 Caledonia Rd., Toronto
Hollingshead, R.M., Co. of Canada Ltd., The	I Mobile Drive, Toronto
Howard, A.H., Chemical Co. Ltd.	
Hungtington Laboratories Ltd. Industrial Adhesives Ltd.	Bramalea 90 Tycos Drive, Toronto
Industrial Chemicals and Solvents Ltd.	9951/2 Barton E., Hamilton
Interchemical Corp. Canada Ltd.	Georgetown
International Waxes Ltd.	
J.W. Enterprises Reg'd. Johnson, S.C., and Son Ltd.	Maple Brantford
Keiner and Co. (Canada) Limited	
King Calcium Products Co. Ltd.	Campbellviile
Kiwi Polish Co. (Canada) Ltd., The	
Lastoplex Chemicals	
Le Page's Limited	404 Kipling Ave., Toronto
Lincoln Chemicals Ltd.	St. Catharines
London Laboratories	
Luhrizol of Canada Ltd.	

Location

B. Other Chemical Industries, n.e.s. - Continued

Ontario - Concluded:	
M and T Products of Canada Ltd.	670 Stratearne Ave. N., Hamilton
McKibbon, E.	127 Raleigh Ave., Toronto
MacCallum Mfg. Co. Ltd.	2 Primrose Ave., Toronto
Machon Sealing Wax Co., The Maitland Development Co. Ltd.	498 Eastern Ave., Toronto Maitland
Master Builders Co. Limited, The	North York Twp.
Mercury Chemical Co. Ltd.	1005 Walker Rd., Windsor
Mamar Canada Limited	124 Cartwright Ave., Toronto
Morgan Adhesives of Canada Ltd.	Brampton
Morningstar-Paisley of Canada Ltd.	Weston 363-379 Wallace Ave., Toronto
National Starch and Chemical Co. (Canada) Ltd.	
Nonsuch Products	
Nanco Chemical (Canada) Ltd	London
Norda Limited	2 Piants: Vankleek Hill, 833 King St. W., Toront
Nymoc Products Co.	47 Duke St., Toronto Toronto
Parker Rust Proof Company of Canada Ltd. Pennsait Chemicals of Canada Ltd.	Oakviite
Perm-Fiex Industries Ltd.	90 Bridgeland Ave., Toronto
Perolin Co. of Canada Ltd.	Rexdale
Peterman Products Co.	1 Bathurst St., London
Plant Products Co. Ltd.	Port Credit
Plunkett Chemical Co. (Canada) Ltd. Poole, J.F. Co. Ltd., The	164 Rentworth Ave. Toronto
Quaker City Chemical Co. of Canada Limited	16 Birmingham St., Hamilton
Radiator Specialty Co. of Canada Ltd.	
Red Line Chemicals of Canada Limited	. Mimico
Reeves, L.A., Ink Co., Lid.	217 Niagara St., Toronto
Reliable Chemical Products Co	85 Cannon St. W., Hamilton
Renovator Manufacturing Co.	625 Bartlett Dr., Windsor
Ross, Frank T., and Sons (1962) Ltd. Roy Chemicals and Sales	Scarborough 403 Windermere Rd., Windsor
Russell, L.B., Chemicals (Canada) Ltd.	12 Carlaw Ave., Toronto
S.A.C. of Canada Ltd.	204 Evans Ave., Toronto
San-o-matic Mfg. Co.	910 Erie St. E., Windsor
Scholler Brothers Limited	Welland & Vine Sts., St. Catharines 524 Front St. W., Toronto
Sicurity Formula and Testing Ltd, Sirell Canada Limited	Box 400 Terminal A, Toronto
Simoniz Company Ltd.	244 Bartiey Drive, Toronto
Sitko Products Co.	Sudbury
Stuyler Chemical Corp. Ltd.	Scarborough
Somar Research Institute Ltd.	67 Frederick St., Toronto
Smith, Wilbor and Associates	Port Colborne 119 Water St., Brockville
Stadex-Pirie Limited Standard Wax Co.	80 Ossington Ave., Toronto
Stanley Home Products of Canada Ltd.	140 Ann St., London
Stein-Hall Limited	. 1130 Dupont St., Toronto
Sterne G.F. and Sons Ltd.	Brantford
Strike-Rite Matches Limited	. 100 Falcon St., London
Superior Biochemicals of Canada Ltd.	
Swift Canadian Co, Lid, Taylor Atlas Products Ltd,	
Technical Adhesives Ltd.	
Temuss Products Canada Ltd.	
Tilleys Limited	. 430 College St., Toronto
Tumbier, J.A. Laboratories Ltd., The	. Scarborough
Unichem Company Ltd.	. Scarborough
Uniform Company Ltd. Van Camp Products and Sales Ltd.	Scarborough 60 Clarkson, Toronto
Viegras, Gabriel	Utopia
Vix Products Co.	1057 Felix Ave., Windsor
Wailace and Tiernan Ltd Lucidai Divs.	715 Kipling Ave. S., Toronto
Ware Chemical of Canada Ltd,	. 152 Norseman St., Toronto
Warner - Patterson Co. of Canada Ltd.	. 87 Colville Rd., Toronto
Washburn, T.F. Canada Ltd.	Preston Dundas
Wilson Laboratories Limited	
Wood, G.H. and Co. Ltd.	Queen Elizabeth Blvd., Toronto
Wynn's Friction Proofing Canada Ltd.	Rexdaie
Xzit Chemicals (Eastern Canada) Ltd.	Port Colborne
Manitoba:	
Chipman Chemicals Limited	1040 Coulter Ave., Winnipeg
Continental Chemicals Ltd.	. 93 Gomez St., Winnipeg
Dustbane Mfg. Co. Ltd.	730 Madison Ave., Winnipeg
Interprovincial Co-operatives Ltd.	. 190 Madison St., Winnipeg
Printer's Roller Co.	1045 Notre Dame Ave., Winnipeg
Sherwin Williams Co. of Canada Ltd. Swift Canadian Co. Ltd	
Uitra Modern Chemicals	
VIA MONTH CHURCHS	a. valvaligaves west as emitted.
Sakkatchewan:	
Chipman Chemicals Limited	. Moose Jaw
Pairview Chemical Co. Ltd.	1355 St. John St., Regina
Grier Manufacturing Chemists Ltd.	. 1600 Toronto St., Regina

Location

B. Other Chemical Industries, n.e.s. - Concluded

Alberta:

Allied Chemical Services Ltd.

Brakesol Canada Limited
Canada West Products Co.
Custom Miracle Chemicals
Eternacrete Products Ltd.
Glazol Manufacturing Ltd.
Helmer Chemicals Co. Ltd.
T-Line Chemicals Ltd.
Wendar Adhesives Corp. Ltd.

5507-1st St. S.E., Calgary 4134-16th St. S.E., Calgary 718 Second Ave. W., Calgary Box 991, Calgary 14810-123rd Ave., Edmonton 7730 Macleod Trail, Calgary 222-35th Ave. N.E., Calgary 828-24 Ave. S.E., Calgary 8045 Coronet Rd., Edmonton

British Columbia:

Adherite Products Ltd.
Aero-Pak Saies Ltd.
Ansell Chemical Co. Ltd.
Bardahl Lubricants (Western) Ltd.
California Chemical (Canada) Ltd.
Coloron Industries International Ltd.
Concrete Control Products Ltd.
Dominion Wax Corporation Ltd.
Dustbane Mfg. Co. Ltd.
East West Chemicals Ltd.
Field, A.H.T., and Co. Ltd.
General Dye and Chemical Co. Ltd.
Goddard Chemicals Ltd.
Grip-Tex Products Ltd.
Industrial Formulators of Canada Ltd.
Later Chemicals Ltd.
Micro-Metals Compounds Ltd.
Noxall Products Ltd.
Oliver Chemical, Co. Ltd., The
Peerless Products Ltd.
Rayonler B.C. Limited (Silvachemical Div.)
Renton Distributors Ltd.
Sawyer's Supplies
Simpson, A., Co.
Simpson, Harold, Ltd.
Swift Canadian Co. Ltd.
Trinit Manufacturing Co. Ltd.
Uniplast Products Ltd.
Western Match Co. Ltd.
Wood, G.H. and Co. Ltd.
Xzit Chemicals Ltd.

987 E. Cordova St., Vancouver
230 Brunette St., New Westminster
Vernon
2060 W - 10th Ave., Vancouver
New Westminster
1196 E. Pender, Vancouver
843 West Road, Richmond
1477 S.W. Marine Drive, Vancouver
2060 W - 10th Ave., Vancouver
945 East Hastings, Vancouver
945 East Hastings, Vancouver
1603 Franklin St., Vancouver
1603 Franklin St., Vancouver
1603 Franklin St., Vancouver
1623 W - 2nd Ave., Vancouver
1623 W - 2nd Ave., Vancouver
1623 Clarke Drive, Vancouver
1820 W. 3rd. Ave., Vancouver
Penticton
625 Clarke Drive, Vancouver
Poot of Heather St., Vancouver
1815 Franklin St., Vancouver
1815 Franklin St., Vancouver
1815 Belleville St., Victoria
750 Powell St., Vancouver
236 East Espianade, N., Vancouver
8040 Enterprise St., Burnaby
1835 East Hastings St., Vancouver
1885 Franklin St., Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 56 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the establishment (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

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

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

Each establishment is required to report on all the activities carried out within 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" 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 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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