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A — Annual

O — Occasional

M — Monthly

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OTHER CHEMICAL INDUSTRIES

1963

Data presented in this report under the heading of the Other Chemical Industries reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its industry Statistics compilations—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report.

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 disinfectants 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.

SYMBOLS

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

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

TABLE 1 A. Principal Statistics classified by Province, 1962 and 1963

Year and province	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000							\$'000			\$'000
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													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	6	17	38	91	26	617	894	73	x	x	27	145	81
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	102	939	1,965	3,247	740	18,756	41,915	22,806	26	91	2,028	9,190	25,612
Ontario	176	2,717	5,692	10,682	1,788	69,066	131,376	60,684	34	124	5,437	27,071	68,374
Manitoba	12	52	105	177	23	3,241	5,139	1,748	3	8	108	411	1,970
Saskatchewan	3	11	21	36	4	809	1,221	433	—	—	28	116	641
Alberta	11	28	57	95	10	1,208	1,677	541	x	x	57	219	604
British Columbia	37	130	252	503	100	2,108	5,041	2,810	4	12	264	1,174	3,175
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	5	19	43	97	28	882	1,261	327	x	x	32	172	326
New Brunswick	1												
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	2,168	585	x	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

TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	36	12	11	16	4	65	186	114	24	45	28	46	139
\$ 10,000 to \$ 24,999	38	34	56	90	15	302	681	361	29	117	60	158	422
25,000 " 49,999	34	65	116	190	17	615	1,300	667	7	27	147	465	735
50,000 " 99,999	36	105	207	339	35	1,197	2,671	1,442	9	45	195	783	1,514
100,000 " 199,999	46	230	459	754	89	3,237	6,889	3,544	1	12	512	2,153	3,993
200,000 " 499,999	57	486	1,018	1,702	239	9,313	19,175	9,807	—	—	1,091	5,064	11,867
500,000 " 999,999	46	749	1,590	2,793	519	16,652	34,484	17,060	—	—	1,483	7,249	19,122
1,000,000 " 4,999,999	51	2,003	4,250	8,168	1,703	52,024	101,687	48,922	—	—	3,850	19,375	52,430
5,000,000 and over	3	210	422	779	71	12,400	20,191	7,176	—	—	452	2,379	9,321
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	131	733	910
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													
Under \$10,000	32	12	24	24	—	85	178	102	20	36	21	45	112
\$ 10,000 to \$ 24,999	35	24	47	71	3	275	606	358	23	93	44	131	383
25,000 " 49,999	37	63	126	196	16	680	1,429	846	5	24	134	429	916
50,000 " 99,999	33	106	219	339	30	1,195	2,469	1,288	10	60	189	745	1,428
100,000 " 199,999	43	181	392	658	66	2,993	6,138	3,189	—	—	406	1,986	3,909
200,000 " 499,999	70	586	1,241	2,040	293	12,025	22,161	10,121	—	—	1,158	5,301	12,232
500,000 " 999,999	43	587	1,262	2,360	330	16,268	31,553	15,074	—	—	1,303	6,884	16,686
1,000,000 " 4,999,999	56	2,172	4,708	9,413	1,935	56,015	112,135	54,300	—	—	4,176	22,015	58,328
5,000,000 and over	3	252	522	935	87	13,595	22,106	8,249	—	—	499	2,468	10,923
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

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	57	31	38	60	10	229	516	269	35	92	72	142	347
\$ 10,000 to \$ 24,999	50	84	151	258	28	1,462	2,581	818	26	102	162	545	855
25,000 " 49,999	40	113	236	412	52	1,897	3,396	1,443	6	27	223	904	1,595
50,000 " 99,999	47	243	469	793	124	4,030	7,608	3,319	3	24	506	2,159	3,833
100,000 " 199,999	38	256	529	853	115	5,963	11,220	5,223	—	—	593	2,536	5,662
200,000 " 499,999	65	1,004	2,154	3,719	526	25,747	48,104	22,181	—	—	2,001	9,940	26,162
500,000 " 999,999	26	697	1,499	3,005	839	21,183	40,242	17,725	—	—	1,636	8,478	19,905
1,000,000 " 4,999,999	24	1,466	3,055	5,732	996	35,295	73,597	38,116	—	—	2,625	12,890	41,187
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	131	733	910
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	131	733	910
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													
Under \$10,000	53	25	50	58	2	269	513	249	31	74	46	122	280
\$ 10,000 to \$ 24,999	41	56	110	176	15	722	1,399	691	18	84	103	324	710
25,000 " 49,999	45	114	236	382	44	2,644	4,175	1,539	9	55	256	1,031	1,886
50,000 " 99,999	56	265	555	906	109	5,647	9,523	3,987	—	—	525	2,319	4,426
100,000 " 199,999	48	439	937	1,544	217	9,129	16,045	6,882	—	—	803	3,621	7,839
200,000 " 499,999	52	781	1,691	3,114	399	22,781	40,563	17,484	—	—	1,652	8,566	20,768
500,000 " 999,999	35	1,012	2,230	4,401	1,241	25,437	50,764	24,222	—	—	2,026	10,958	25,911
1,000,000 " 4,999,999	22	1,321	2,730	5,455	734	36,502	75,793	38,471	—	—	2,519	13,064	43,098
5,000,000 and over	...	...	...	...	...	...	...	...	...	...	134	779	590
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

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under \$10,000	51	23	27	41	8	255	547	250	32	77	60	117	236
\$ 10,000 to \$ 24,999	51	85	145	249	28	1,338	2,359	748	29	117	148	469	813
25,000 " 49,999	39	101	211	359	48	1,625	2,954	1,286	6	27	210	826	1,370
50,000 " 99,999	47	222	419	702	96	3,709	7,029	3,062	3	24	450	1,893	3,281
100,000 " 199,999	40	264	554	913	137	6,199	11,386	5,151	—	—	608	2,622	5,586
200,000 " 499,999	60	848	1,813	3,026	419	21,195	40,361	18,948	—	—	1,646	7,980	20,540
500,000 " 999,999	30	752	1,645	3,214	884	19,475	38,286	18,096	—	—	1,574	8,265	20,325
1,000,000 " 4,999,999	29	1,599	3,314	6,326	1,070	42,011	84,343	41,553	—	—	3,122	15,421	47,393
5,000,000 and over													
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	131	733	910
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													
Under \$10,000	50	23	46	53	1	247	480	237	31	74	36	89	237
\$ 10,000 to \$ 24,999	43	56	111	175	15	718	1,383	682	18	64	107	341	728
25,000 " 49,999	38	92	195	313	29	1,804	3,052	1,268	8	43	188	725	1,353
50,000 " 99,999	57	240	497	806	110	5,991	9,564	3,660	1	12	508	2,201	4,178
100,000 " 199,999	50	458	975	1,619	221	8,874	15,623	6,639	—	—	787	3,520	7,135
200,000 " 499,999	46	587	1,270	2,265	277	16,803	30,857	13,982	—	—	1,197	6,086	15,064
500,000 " 999,999	43	1,149	2,532	4,955	1,318	29,952	57,590	26,425	—	—	2,304	12,370	29,148
1,000,000 " 4,999,999	25	1,378	2,914	5,849	789	38,742	80,226	40,633	—	—	2,803	14,673	47,076
5,000,000 and over													
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

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed	117	105	186	309	46	2,099	3,983	1,814	61	195	219	744	2,004
5- 14 employed	101	436	861	1,575	216	10,631	21,040	10,138	9	50	879	4,213	10,675
15- 49 "	80	1,155	2,477	4,373	971	36,016	63,241	25,794	—	—	2,207	10,726	28,013
50- 99 "	35	1,093	2,341	4,381	948	27,360	56,845	28,996	—	—	2,308	11,350	32,723
100- 199 "	10	630	1,277	2,379	421	13,682	24,446	10,617	—	—	1,234	5,618	12,358
200-499 "	4	475	986	1,814	88	6,018	17,709	11,734	—	—	971	4,943	13,772
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	131	733	910
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													
Under 5 employed	113	110	228	350	30	1,991	3,654	1,806	51	167	203	690	1,891
5- 14 employed	112	478	1,018	1,846	242	14,369	26,588	12,063	7	46	955	4,747	13,164
15- 49 "	82	1,216	2,615	4,788	1,024	33,255	62,342	28,442	—	—	2,417	12,315	30,367
50- 99 "	33	1,149	2,485	4,812	1,032	33,771	65,727	30,815	—	—	2,323	11,989	34,727
100-199 "	8	563	1,216	2,237	342	13,833	22,471	8,429	—	—	1,046	4,968	10,174
200-499 "	4	467	977	2,002	91	5,913	17,994	11,971	—	—	986	5,296	14,595
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
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

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

Type of organization	Estab-lish-ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec-tricity	Cost of materials and supplies	Value of shipments of goods of own manu-facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships	52	42	66	104	18	480	1,050	554	56	187	55	145	576
Partnerships	8	8	13	19	7	130	298	162	14	58	12	34	170
Incorporated companies	287	3,884	8,051	14,708	2,666	95,196	185,916	88,376	—	—	7,751	37,414	98,799
Cooperatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	131	733	910
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													
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	298	3,946	8,467	15,932	2,749	102,598	197,643	92,910	—	—	7,879	39,858	104,263
Cooperatives													
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

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
\$'000						
Output						
1. Shipments and other revenue	187,263	198,775	49,856	57,778	237,119	256,553
Inventories — Goods of own manufacture:						
Add closing — Goods in process	1,173	1,190	...	...	1,173	1,190
Finished goods	13,411	16,113	...	...	13,411	16,113
Less opening — Goods in process						
Finished goods	1,029	1,141	...	...	1,029	1,141
Finished goods	13,228	15,518	...	...	13,228	15,518
2. Net inventory change	327	644	...	...	327	644
3. Gross output (1 + 2)	187,590	199,419	49,856	57,778	237,446	257,197
Input						
4. Purchases of goods not of own manufacture .....	...	...	38,193	44,558	38,193	44,556
Inventories — Goods not of own manufacture:						
Add opening .....	...	...	4,287	4,428	4,287	4,428
Less closing .....	...	...	4,881	4,184	4,881	4,184
5. Cost of goods sold (not of own manufacture) .....	...	...	37,599	44,802	37,599	44,802
6. Materials, supplies, components and semi-processed goods	95,806	103,131	897	994	96,703	104,125
7. Fuel and electricity	2,690	2,760	...	...	2,690	2,760
8. Gross input (5 + 6 + 7)	98,496	105,891	38,496	45,796	136,992	151,687
Census value added (3 - 8)	89,094	93,527	11,360	11,982	100,455	105,508

TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Adminis- trative and office	Sales and distri- bution	Total salaries and wages
	Manufacturing		Other								Manufacturing	Other			
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female			Manufacturing	Other	
	number										\$'000				
1962															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	17	—	—	—	8	1	1	—	26	1	91	—	48	6	145
New Brunswick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec	826	113	44	—	431	225	377	12	1,678	350	3,247	88	3,334	2,521	9,190
Ontario	2,238	479	8 ^r	4 ^r	1,028 ^r	694 ^r	894	92	4,168	1,269	10,682	135	9,971	6,282	27,071
Manitoba	47	5	—	—	21	9	26	—	94	14	177	—	117	118	411
Saskatchewan	11	—	—	—	9	4	4	—	24	4	36	—	60	20	116
Alberta	26	2	—	—	18	6	4	1	48	9	94	—	88	36	219
British Columbia	114	16	—	—	78	33	22	1	214	50	503	—	507	164	1,174
Yukon and Northwest Terri- tories	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	3,279	615	52 ^r	4 ^r	1,593 ^r	972 ^r	1,328	106	6,252	1,697	14,833	223	14,125	9,146	38,326
1963															
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
New Brunswick	18	1	—	—	10	2	1	—	29	3	97	—	73	3	172
Quebec	867	117	55	—	443	235	370	6	1,735	358	3,553	120	3,570	2,516	9,758
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	—	—	11	4	4	—	25	5	41	—	72	27	139
Alberta	28	3	—	—	19	8	2	—	49	11	121	—	138	12	272
British Columbia	107	8	—	—	69	34	37	2	213	44	532	—	419	256	1,207
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

TABLE 3A. Production and Related Workers, - Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January	2,795	503	2,862	459
February	2,804	512	2,878	618
March	2,841	543	2,891	528
April	2,916	552	2,970	557
May	2,968	521	3,026	566
June	3,031	568	3,088	582
July	2,981	513	2,977	478
August	2,991	520	3,058	557
September	2,937	516	2,993	557
October	2,902	523	2,988	548
November	2,870	490	2,971	549
December	2,852	467	2,943	519
Average for establishments reporting monthly detail (collected only for large establishments) ..	2,904	520	2,969	541
Average for small establishments (only annual averages collected)	375	95	400	73
Average for all establishments	3,279	615	3,369	614

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	142	—	118	260	—	260
New Brunswick						
Quebec	2,849	191	2,900	5,939	783	6,722
Ontario	10,546	899	11,161	22,606	3,198	25,804
Manitoba	382	10	338	731	190	920
Saskatchewan	70	—	228	298	52	350
Alberta	192	3	305	500	7	506
British Columbia	392	38	823	1,254	201	1,454
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	14,575	1,141	15,873	31,589	4,428	36,017
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	—	—	—	—	—	—
Nova Scotia	84	—	93	177	—	177
New Brunswick						
Quebec	2,693	193	2,929	5,814	866	6,680
Ontario	11,510	941	11,768	24,219	2,965	27,184
Manitoba	530	10	272	813	109	922
Saskatchewan	111	—	335	446	87	533
Alberta	199	7	322	527	5	532
British Columbia	367	39	810	1,216	152	1,368
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	15,494	1,190	16,530	33,214	4,184	37,397

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	—	6,781	80
(b) Imported	"	23,148	14,324	164
Sub-bituminous coal (from Alberta mines only)	"	113	97	1
Anthracite coal	"	1,097	729	12
Lignite coal	"	—	—	—
Coke	"	32	20	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	329,480	330,171	132
Fuel oil including kerosene or coal oil	"	10,407,782	11,438,767	1,035
Wood	cord	595	1,866	9
Gas:				
(a) Liquefied petroleum gases	Imp. gal.	15,568	18,295	5
(b) Other manufactured gas	M cu.ft.	312,968	76,140	21
(c) Natural gas	"	248,075	250,010	168
Other fuel .....		...	...	94
Electricity purchased	kwh.	68,602,387 ¹	75,388,177	696
Steam purchased .....		...	...	205
2. Estimate for small establishments:				
Fuel and electricity .....		...	...	138
3. All establishments:				
Total fuel and electricity used		2,690	...	2,760

¹ The difference between figures in this table and those in Table 2 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 computing value added in Table 2. See also "Concepts and Definitions" for explanation of other variances.

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963
A. Manufacturers of Printing Inks

Description	1962		1963					
	Quantity	Cost	Quantity	Cost				
		\$'000		\$'000				
1. Materials used:								
Carbon black	lb.	1,930,780	256	1,978,432	231			
Driers .....	..	..	108	..	130	
Dry colours .....	..	..	2,743	..	2,724	
Dyes .....	..	..	46	..	44	
Flushed colours .....	..	..	652	..	890	
Glue	lb.	35,591	8	45,828	9			
Glycerine	"	55,594	9	65,938	12			
Gums and resins:								
Natural	"	390,932	73	483,331	98			
Synthetic	"	3,578,617	986	3,881,146	1,020			
Oils:								
China-wood (Tung)	"	48,982	22	61,633	27			
Linseed	Imp. gal.	70,653	135	68,738	127			
Petroleum ink oils	lb.	1,421,949	414	1,481,709	417			
Other oils	"	28,033	7	47,028	12			
Solvents (benzol, naphtha, alcohol, etc.)	Imp. gal.	974,009	470	902,781	429			
Varnishes	"	389,689	1,008	414,443	951			
Wax (beeswax, carnauba, paraffin, etc.)	lb.	84,106	29	85,415	23			
All other materials and components used .....	...	...	910	...	1,082	
2. Containers and other packaging materials and supplies used	509	...	505
3. Operating, maintenance and repair supplies used (excluding fuel)	222	...	238
4. Amount paid out to others for work done on materials owned by establishments	7	...	13
Totals	8,613	...	8,981

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

Description	1962		1963		
	Quantity	Cost	Quantity	Cost	
		\$'000		\$'000	
1. Materials used:					
Acetone	lb.	393,740	42	351,039	35
Acids:					
Cresylic (including cresols)	"	291,839	40	160,225	27
Hydrochloric (muriatic)	"	365,314	17	196,504	13
Oleic	"	591,687	109	728,644	134
Oxalic	"	143,643	28	152,097	32
Phosphoric	"	1,506,365	128	1,626,015	144
Stearic	"	1,056,023	153	982,466	151
Sulphuric, 100%	"	21,359,618	303	25,404,821	377
Alcohol:					
Butyl (including isobutanol)	"	732,455	129	268,049	65
Ethyl	Imp. gal.	75,041	86	427,306	510
Isopropyl	lb.	6,211,507	543	4,743,704	353
Methyl	Imp. gal.	57,930	50	353,573	227
Aldrin, technical	lb.	833,188	731	413,142	374
Ammonia, anhydrous	"	2,637,163	119	4,054,865	166
Arsenic, white (As ₂ O ₃)	"	426,416	26	393,860	25
Arsenic acid (As ₂ O ₃)	"	389,230	18	457,470	18
Asphalt	Imp. gal.	575,832	117	474,146	89
Bones	ton	8,664	329	9,900	378
Borax	lb.	1,472,499	86	1,634,261	94
Calcium arsenate	"	92,089	7	64,607	5
Calcium carbonate (whiting and chalk)	"	1,478,559	26	1,317,783	32
Calcium chloride	"	1,882,246	51	1,638,998	55
Carbon black	"	231,411	41	333,976	40
Carbon tetrachloride	"	355,309	47	591,554	79
Casein	"	1,846,153	255	711,909	158
China clay (kaolin)	"	4,376,018	93	3,582,363	78
Copper sulphate	"	196,164	51	155,564	42

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963 - Continued
B. Other Chemical Industries, n.e.s. - Continued

Description		1962		1963	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used - Continued:					
D.D.T. (dichloro, diphenyl trichlorethane)	lb.	1,035,998	200	990,758	196
Dextrine	"	7,684,785	761	10,220,282	1,021
Dry colours	"	..	41	..	250
Ethanolamines (mono, di, tri)	lb.	1,953,880	525	1,864,668	479
Ethylene glycol (see also "glycols, other")	"	12,585,377	1,668	13,619,715	1,849
Flour:					
Potato	"	90,533	8	54,917	5
Tapioca	"	257,772	31	215,246	24
Wheat	"	4,061,288	188	4,672,022	201
Other	"	395,820	38	132,544	8
Formaldehyde, 100% solids basis	"	2,033,103	245	2,249,295	312
Glycerine	"	815,867	192	857,800	210
Glycols, other (see also "ethylene glycol")	"	470,848	114	382,972	86
Glucose	"	403,728	33	445,001	41
Glue:					
Bone and hide	"	1,131,841	329	1,090,763	309
Fish	"	473,026	103	366,312	63
Grease	"	937,043	75	1,141,874	82
Gums and resins, natural	"	754,651	209	658,765	196
Hides and hide trimmings	ton	18,724	266	19,117	277
Iron, scrap	"	1,253	37	1,302	24
Lignin liquor	Imp. gal.	423,715	64	418,479	62
Lime	ton	1,728	28	2,931	55
Lindane, technical	lb.	44,101	57	42,839	52
Litharge	"	387,078	48	365,046	45
Malathion, technical	"	363,975	349	83,141	82
Naphthalene	"	17,374,477	745	17,793,680	847
Oils:					
Castor	"	604,273	133	460,963	87
China-wood (Tung)	"	61,061	28	53,911	24
Cocanut	"	808,944	120	675,602	108
Cod	"	727,343	59	468,702	37
Essential	"	..	740	..	1,064
Fish	lb.	900,611	116	1,089,329	130
Lard	"	1,255,360	173	1,487,053	189
Linseed:					
Raw	Imp. gal.	85,558	125	73,683	99
Boiled or processed	"	16,679	32	17,923	35
Mineral	"	1,913,189	280	807,703	176
Neat's foot	lb.	365,515	63	200,794	35
Pine	"	494,296	82	584,672	94
Silicone oil	"	30,732	94	47,075	112
Soyabean	"	1,778,676	202	1,707,932	204
Tall (refined and crude)	"	20,164,471	513	26,621,870	1,015
Other oils	"	3,942,532	349	3,411,800	295
Paradichlorobenzene	"	2,855,946	328	2,487,672	287
Pentachlorophenol	"	83,248	18	79,172	18
Petroleum distillates (naphtha, gasoline, etc.)	Imp. gal.	3,586,788	1,180	4,464,790	1,442
Phenol	lb.	876,691	128	1,072,201	135
Phosphorus, amorphous	"	29,340	17	28,830	16
Phosphorus sesquisulphide	"	34,142	15	29,667	12
Phthalic anhydride	"	435,554	57	570,164	65
Potassium bichromate	"	131,803	24	62,907	15
Potassium chlorate	"	857,120	114	806,066	105
Potassium hydroxide (caustic potash)	"	1,052,202	93	1,168,584	111
Pyrethrum	"	..	232	..	228
Resins, synthetic	lb.	19,893,505	3,848	22,069,861	4,526
Rotenone	"	153,075	33	177,660	40
Rubber or latex	"	4,420,589	1,285	4,771,547	1,617
Shellac:					
Bleached	lb.	198,170	108	215,499	120
Orange	"	26,537	10	29,231	10
Other grades	"	125,640	68	1,303,497	257
Silica sand or ground quartz	"	3,523,909	62	4,261,491	47
Sodium bichromate	"	810,349	118	841,992	120
Sodium carbonate (soda ash)	"	7,118,326	174	7,769,185	184
Sodium chlorate	"	1,181,773	90	716,263	54

TABLE 6. Materials and Supplies - Manufacturing Activity, 1962 and 1963 - Concluded
B. Other Chemical Industries, n.e.s. - Concluded

Description		1962		1963	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
1. Materials used - Concluded:					
Sodium fluoride.....	lb.	256,111	32	250,872	32
Sodium hydroxide (caustic soda).....	"	9,084,834	363	11,190,916	413
Sodium, phosphates of:					
Monosodium phosphate.....	"	363,884	42	396,562	48
Disodium phosphate.....	"	493,797	47	564,639	56
Trisodium phosphate.....	"	1,618,520	104	1,538,568	105
Tetrasodium phosphate.....	"	27,782	3	51,608	5
Sodium tripolyphosphate.....	"	2,523,952	257	2,920,534	298
Tetrasodium pyrophosphate.....	"	578,669	57	500,024	47
Starch, corn.....	"	1,043,836	92	1,471,557	158
Sugar.....	"	1,060,530	94	1,152,265	178
Sulphur.....	"	9,569,883	134	8,353,964	116
Talc, ground.....	"	5,498,925	68	4,301,471	71
Tar, coal (crude).....	Imp. gal.	27,834,862	3,691	26,312,020	3,044
Titanium oxide.....	lb.	886,884	211	1,000,843	225
Toluol (toluene).....	"	4,455,457	188	5,416,707	230
Turpentine.....	Imp. gal.	23,695	14	19,598	11
Urea.....	lb.	3,369,206	230	2,791,236	167
Wax:					
Beeswax.....	"	132,225	79	139,811	81
Candelilla.....	"	18,314	13	9,964	7
Carnauba.....	"	238,055	149	249,893	154
Paraffin (including slack wax).....	"	55,603,696	2,286	64,471,917	2,578
Synthetic.....	"	1,557,818	876	1,498,469	614
Other waxes.....	"	702,974	139	798,909	165
Xylol (xylene).....	"	7,049,183	299	4,970,655	213
Zinc oxide.....	"	340,186	50	341,509	49
Zinc sulphate.....	"	228,464	20	902,325	80
2, 4-D, technical.....	"	3,987,446	1,413	4,341,213	1,559
Hardwoods.....	cord	15,204	147	17,306	161
Paper board.....	lb.	7,739,516	686	9,475,799	685
Wood blocks.....	M. bd. ft.	1,220	302	197	48
Wood splints.....	"	...	109	...	270
All other materials and components used ¹	"	...	37,345	...	40,980
2. Containers and other packaging materials and supplies used.....		...	13,840	...	15,616
3. Operating, maintenance and repair supplies used (excluding fuel).....		...	2,421	...	1,631
4. Amount paid out to others for work done on materials owned by establishments.....		...	502	...	267
Totals.....		...	87,192	...	94,151
Grand totals.....		...	95,805	...	103,131

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$6,908,500 in 1962 and \$8,057,432 in 1963.

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963
A. Manufacturers of Printing Inks

Description		1962		1963	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
1. Products:					
Printers' inks:					
Newspaper.....	lb.	17,756,760	2,450	17,373,647	2,261
Letterpress.....	"	8,313,857	7,782	7,720,684	7,298
Lithographing.....	"	2,808,994	4,879	3,561,311	5,694
Other.....	"	8,045,036	4,133	8,709,579	4,379
Printers' rollers (see also Section B).....		...	299	...	323
All other products.....		...	419	...	441
2. Amount received in payment for work done on materials and products owned by others.....		...	93	...	-
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above.....		...	(-)	...	(19)
Net adjustment for establishments receiving progress payments.....		...	-	...	-
Total adjusted value of shipments and work done.....		...	20,056	...	20,377

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963 - Continued
B. Other Chemical Industries, n.e.s.

Description		1962		1963	
		Quantity	Value	Quantity	Value
			\$'000		\$'000
1. Products:					
Adhesives and cements:					
Linoleum cement	lb.	7,362,605	388	7,378,265	452
Rubber adhesives:					
Neoprene	gal.	233,254	1,078	367,646	1,436
Reclaims	"	19,041	55	25,646	80
Other (including natural rubber)	"	137,610	532	194,484	698
Synthetic resin adhesives:					
Polyvinyl acetate	lb.	16,686,137	5,241	15,898,328	4,766
Other	"	..	1,168	..	1,211
Glue:					
Bone and hide	lb.	7,798,556	1,787	7,545,818	1,773
Casein	"	617,429	125	1,241,764	240
Fish	"	472,921	193	250,717	118
Flexible	"	2,241,996	580	3,242,652	657
Vegetable:					
Dry	"	4,450,202	715	2,243,697	328
Liquid	"	20,410,865	2,153	15,133,546	1,755
Mucilage	"	278,693	223	294,055	233
Paste:					
Dry	"	1,502,092	227	1,341,362	217
Liquid	"	8,108,060	1,143	10,035,190	1,362
Adhesives and cements, other .....		..	1,688	..	2,185
Automobile chemicals:					
Antifreeze preparations	Imp. gal.	1,272,354	2,763	1,312,981	2,965
Brake fluids	"	206,080	802	231,729	845
Radiator compounds	"	..	339	..	286
Other	"	..	1,747	..	1,923
Boiler chemicals:					
For use by railroads	"	..	182	..	174
For marine use	"	..	174	..	157
For industrial use	"	..	3,945	..	4,059
Caulking compounds	lb.	2,230,217	394	3,011,457	372
Charcoal	ton	17,324	1,170	15,098	1,024
Cleaning preparations and washing compounds:					
Drain pipe cleaner	lb.	57,904	18	152,740	21
Floor cleaners	"	..	765	..	909
Hand cleaner	lb.	1,041,948	208	1,069,534	210
Scouring pastes and powders	"	64,730	21	79,779	45
Toilet bowl cleaner	"	4,374,777	826	5,449,224	899
Other cleaning preparations and washing compounds	"	..	4,313	..	4,626
Coke, pitch	ton	1,899	54	-	-
Concrete admixtures (hardeners and proofer)	"	..	3,644	..	3,757
Creosote oil	Imp. gal.	6,872,372	1,375	8,538,377	1,684
Deodorants (except personal)	"	..	1,753	..	1,727
Detergents (synthetic organic)	lb.	11,271,285	2,617	16,054,102	2,555
Dextrines	"	4,429,388	383	3,974,529	359
Disinfectants	"	..	1,000	..	1,301
Embalming fluid	"	..	305	..	345
Fuel oil additives	"	..	1,729	..	1,189
Ink, writing	"	..	72	..	65
Lacquers	Imp. gal.	299,263	792	244,672	697
Leather dressings and finishes (except polish)	"	..	1,717	..	1,837
Lighter fluid	"	..	366	..	290
Matches, in books	No. of books	864,145,500	3,372	943,927,000	3,598
Oils, sulphonated:					
Castor	lb.	647,815	113	442,160	51
Cocanut	"	114,264	20	59,427	10
Neat's foot	"	196,211	45	119,959	27
Other, including special blends	"	2,394,664	282	2,238,442	269
Oils, except sulphonated	"	10,760,912	1,859	11,660,404	2,050
Paints, ready mixed (interior and exterior types)	Imp. gal.	171,888	755	451,787	1,231
Pest control products:					
Agricultural dusts and sprays (arsenicals, synthetic organics, copper compounds and seed treatments)	"	..	2,565	..	2,710
Herbicides (chlorates, borates, 2, 4-D, 2, 4, 5-T, etc.) Other agricultural dusts and sprays	"	..	6,018	..	6,178
Household and industrial insecticides (fumigants, powders, dusts, sprays and repellents)	"	..	4,069	..	5,679
Rodenticides (mouse and rat poisons, gopher poisons, etc.)	"	..	120	..	180
Other pest control products	"	..	5,300	..	2,105
Pitch	ton	82,826	3,524	89,210	3,426

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963 - Concluded
B. Other Chemical Industries, n.e.s. - Concluded

Description	1962		1963	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products - Concluded:				
Polishes:				
Automobile .....	..	928	..	843
Brass .....	..	29	..	23
Floor wax:				
Paste	lb. 7,397,150	3,498	7,215,857	3,489
Liquid (including self-polishing)	Imp. gal. 4,311,030	12,889	4,496,487	13,301
Furniture:				
Cream .....	..	184	..	114
Oil .....	..	512	..	456
Silver:				
Paste, liquid or cream .....	..	50	..	59
Shoe:				
Paste .....	..	857	..	924
Liquid or cream .....	..	998	..	1,090
Other polishes .....	..	63	..	70
Printers' rollers (see also Section A) .....	..	762	..	821
Rust preventatives .....	..	708	..	825
Soaps:				
Liquid	lb. 7,006,418	1,540	8,214,192	1,965
Soft	" 70,462	12	52,503	7
Textile	" 213,391	48	355,843	80
Other	" 1,538,645	488	3,088,574	414
Sweeping powders .....	..	1,028	..	1,033
Tar, refined	Imp. gal. 718,101	164	496,992	111
Textile and leather specialties .....	..	4,956	..	5,526
Wood preservatives .....	..	723	..	726
All other products .....	...	59,367	...	68,997
2. Amount received in payment for work done on materials and products owned by others .....	...	776	...	935
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(2,184)	...	(2,760)
Net adjustment for establishments receiving progress payments .....	...	-	...	-
Total adjusted value of shipments and work done .....	...	167,207	...	178,398
Grand totals .....	...	187,263	...	198,775

TABLE 8. 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 Inks and Printers' Rollers, 1959 - 63

Year	Printing inks		Printers' rollers and composition
	pounds	\$'000	\$'000
1959	33,041,000	16,001	822
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

B. Writing Inks, 1959 - 63

Year	Selling value at plant
	\$'000
1959	555
1960	556
1961	650 ⁷
1962	636
1963	600

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
C. Boiler Compounds, 1959-63

Year	Selling value at plant			
	For use by railroads	For marine use	For industrial use	Total
	\$'000			
1959	315	156	3,199	3,670
1960	189	158	3,974	4,321
1961	190	189	3,976	4,355
1962	182	174	3,948	4,304
1963	174	157	4,063	4,394

D. Charcoal, 1959-63

Year	Quantity
	tons
1959	14,310
1960	17,411
1961	13,398
1962	17,324
1963	15,098

E. Disinfectants and Deodorants, 1959-63

Year	Selling value at plant	
	Disinfectants	Deodorants ¹
	\$'000	
1959	1,357	523
1960	1,387	1,594
1961	1,218	1,613
1962	1,844	1,909
1963	2,448	2,034

F. Pest Control Products of All Kinds,² 1959-63

Year	Selling value at plant
	\$'000
1959	8,851
1960	11,166
1961	12,962
1962	13,969
1963	12,943

G. Book Matches, 1959-63

Year	Quantity	Selling value at plant
	No.	\$'000
1959	675,292,000	2,816
1960	727,604,000	3,025
1961	747,034,000	3,023
1962	864,146,000	3,372
1963	943,927,000	3,597

See footnotes at end of table.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
H. Sweeping Compounds, 1959 - 63

Year	Selling value at plant
	\$'000
1959	999
1960	1,337
1961	1,104
1962	1,055
1963	1,095

I. Herbicides (Weed Killer), 1959 - 63

Year	Selling value at plant
	\$'000
1959	3,598
1960	3,572
1961	4,252
1962	6,051
1963	6,205

J. Polishes, 1961 - 63

Product		1961	1962	1963
Floor, wax, paste	lb.	9,023,000	8,413,000	8,112,000
	\$'000	3,614	3,828	3,786
Floor wax and polish, liquid ¹	Imp. gal.	5,059,000	5,015,000	5,289,000
	\$'000	14,189	14,641	15,419
Shoe polishes and dressings	"	2,191	2,301	2,491
Furniture polish	"	858	762	664
Stove polishes	"	18	..	..
Brass polishes	"	95	107	175
Silver polishes	"	151	140	221
Auto polishes, including wax	"	1,077	929	844
Polishes, kind not specified	"	212	75	136
Totals	"	22,405	22,783	23,736

K. Creosote Oils, Pitch and Refined Tars, 1959 - 63

Year	Creosote and other oils	Pitch	Refined tar, tarvia, etc.
	Imp. gal.	ton	Imp. gal.
1959 ⁴	10,666,000	134,000	2,540,000
1960	14,079,000	127,000	2,630,000
1961	9,202,000	84,000	3,754,000
1962	7,418,000	90,000	6,131,000
1963	8,881,000	87,000	3,610,000

L. Crude Tar Used in Tar Distilleries,⁵ 1959 - 63

Year	Imp. gal.
1959	38,039,000
1960	37,277,000
1961	30,551,000
1962	32,818,000
1963	30,950,000

See footnotes at end of table.

TABLE 8. Shipments of Selected Goods of Own Manufacture - All Industries - Continued
M. Adhesives and Cements, 1962 and 1963

Year	1962		1963	
	Quantity	Value of factory shipments \$'000	Quantity	Value of factory shipments \$'000
Linoleum cement .....	..	960	..	979
Rubber adhesives:				
Neoprene gal.	265,000	1,287	447,000	1,711
Reclaims "	19,000	55	54,000	167
Other (including natural rubber) "	1,110,000	3,484	1,538,000	3,781
Synthetic resin adhesives:				
Polyvinyl acetate lb.	16,686,000	5,241	15,898,000	4,766
Other	6	6	6	6
Glue:				
Bone and hide ⁷ lb.	7,799,000	1,787	7,546,000	1,773
Casein "	1,008,000	246	1,652,000	366
Fish .....	..	397	..	309
Flexible lb.	2,242,000	580	3,243,000	657
Vegetable:				
Dry "	4,450,000	715	2,244,000	328
Liquid "	20,411,000	2,153	15,134,000	1,755
Mucilage and paste .....	..	1,594	..	1,812
Adhesives and cements, other .....	..	2,893	..	4,009

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.

³ Includes self-polishing wax.

⁴ Since 1959 includes shipments by distilleries included as divisions of establishments classified to Asphalt Roofing Manufacturers.

⁵ Including tar used by distilleries included as divisions of establishments classified to Asphalt Roofing Manufacturers.

⁶ The largest volume of adhesives in this class is accounted for by a group of urea-formaldehyde and phenol-formaldehyde resin solutions which are sold for other applications as well. Under these 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.

⁷ Includes some imported glue used to increase the bonding strength of this type of glue.

TABLE 9. Principal Statistics classified by Industry Sub-group, 1961-63

Year and industry	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
Manufacturers of printing inks:													
1961	32	630	1,370	2,674	193	8,362	19,038	10,571	x	x	1,122	5,658	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
Other chemical industries, n.e.s.:													
1961	313	3,126	6,605	11,463	2,367	77,241	150,206	72,553	x	x	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	x	6,849	34,381	92,795

List of Establishments classified to This Industry, 1963

(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	
Quebec:	
Ault and Wiborg Co. of Canada Limited, The	5520 Chabot, Montreal
Canada Printing Ink Company Limited, The	8490 Jeanne Mance, Montreal
Columbian Carbon (Canada) Ltd.	7147 Park Ave., Montreal
Frontenac Ink Works Limited	400 Aqueduct St., Montreal
Gresham Company Reg'd., The	1081 Smith St., Montreal
Parkinson Inks (Montreal) Ltd.	6658 Esplanade Ave., Montreal
Sinclair and Valentine Company of Canada Limited	6765 Hutchinson, Montreal
Schmidt Printing Inks of Canada	880 De l'Epée, Montréal
Ontario:	
Ault and Wiborg Co. of Canada Limited, The	82 Peter St., Toronto
Bordon Chemical Co. (Canada) 1962 Ltd., The	West Hill
Bowers Printing Ink Co. of Canada Ltd.	345 Carlaw Ave., Toronto
Canada Printing Company Limited, The	Brockhouse Rd., Toronto
Canadian Fine Color Co. Limited	2 Sheffield St., North York
Columbian Carbon (Canada) Ltd.	24 Bethridge Rd., Rexdale
Gaetjens, Berger and Wirth (Canada) Ltd.	440 Birchmount Rd., Toronto
General Printing Ink Corporation of Canada Ltd.	821 Queen St., Toronto
Hendershot Inks Ltd.	240 Logan Ave., Toronto
Hostmann-Steinberg (Canada) Ltd.	22 Hobson Ave., Toronto
Inter-Provincial Inks Limited	28 Nashville Ave., Toronto
Manton Printing Inks Ltd.	133 Cartwright, Toronto
Markrite Manufacturing Company	120 Church St., Toronto
Parkinson Inks Ltd.	445 Nightingale, London
Rieger Printing Ink Company Limited	41 Clarkson Ave., Toronto
Sinclair and Valentine Company of Canada Limited	240 Madison Ave., Toronto
Toronto Star Limited	20 Queen's Quay E., Toronto
Tanzer Printing Inks Ltd.	588 Eastern Ave., Toronto
Manitoba:	
Ault and Wiborg Co. of Canada Limited, The	321 Stanley, Winnipeg
Sinclair and Valentine Company of Canada Limited	800 Berry St., St. James
Alberta:	
Ault and Wiborg Co. of Canada Limited, The	310-2nd St. E., Calgary
Canada Printing Ink Company Limited, The	10333-112th St., Edmonton
British Columbia:	
Ault and Wiborg Co. of Canada Limited, The	496 Prior, Vancouver
Columbia Printing Ink and Roller Co. Ltd.	1410 William St., Vancouver
Columbian Carbon (Canada) Ltd.	1370 E. Georgia St., Vancouver
Rieger Printing Ink Co. Ltd.	688 Derwent Way, New Westminster
Sinclair and Valentine Company of Canada Limited	1277 E. Georgia St., Vancouver
B. Other Chemical Industries, n.e.s.	
Nova Scotia:	
Christie Products	Truro
Jet Charcoal	R.R. 1, Bridgewater
Marden-Wild of Canada Ltd.	Rockhead Works, Halifax
Nu-Mac Manufacturing Company Limited	Dayspring
Swift Canadian Co. Ltd.	Bridgewater
New Brunswick:	
Laurentides Chemicals Inc.	Richibucto
Quebec:	
Actol Chemical Ltd.	Delson
Adams Chemical Company Limited	4905 Dagenais St., Montreal
Aerocide Dispensers Quebec Ltd.	5710 Royalmount Ave., Montreal
Allaire, A.E. Reg'd.	2071 Florian, Montreal
Anachemia Chemicals Ltd.	500-2nd Ave., Ville St. Pierre
Anti-Hydro of Canada Ltd.	2070 Harvard St., Montreal
Arol Chemical Co. Ltd.	2520 Bates Rd., Montreal
Ashdon Chemicals and Plastics Ltd.	St. Hilaire
Avmor Limited	431 St. Helen, Montreal
B.B. Chemical Co. of Canada Ltd.	4445 Hochelaga St., Montreal
Bardahl Lubricants (Canada) Ltd.	Pointe Claire
Barschel and Co.	955-14 Ave., Lachine
Bean, D.D. and Sons (Canada) Ltd.	St. Césaire
Beaver Products Co. Ltd.	1775 Edouard Laurin Blvd., St. Laurent

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
B. Other Chemical Industries, n.e.s. - Continued	
Quebec - Concluded:	
Betz Laboratories Ltd.	1000 Sherbrooke St., Lachine
Blachford, H.L. Limited	977 Aqueduct St., Montreal
Breard Chemical Division Inc.	335 St. Joseph E., Quebec City
Canadian Adhesives Ltd.	410 Marien Ave., Montreal East
Carron, Joseph	La Macaza
Carter's Ink Co. of Canada Ltd.	4501 Drolet St., Montreal
Cartier Chemical Co. Ltd.	445-21 Ave., Lachine
Charcoal Supply and Sales of Quebec Ltd.	Weedon Centre
Chipman Chemicals Limited	Buckingham
Chemical and Technical Services Inc.	9120 St. Laurent, Montreal
Clough Chemical Company Limited	St. John's
Colle Royale Enrg.	4675 Frontenac, Douville
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	Town of Mount Royal
Davison Chemical Co. Ltd.	Valleyfield
Denalt Chemical Inc.	St. Leonard De Port Maurice
Dixie Paint and Chemical Co. Ltd.	338 Notre Dame E., Montreal
Dominion Flour and Paste Co., The	2619 Charlemagne, Montreal
Dontar Chemicals Ltd.	Ville La Salle
Dufresne, Paquet et Cie. Ltée	St. Raymond
Durable Products Reg'd.	4219 Hogan, Montreal
Dural Products Ltd.	Dorval Station
Dust-Less Sweeping Powder Enrg.	1280 Ste. Elizabeth, Montreal
Dust-No-Dirt Mfg. Co.	6572 Chateaubriand, Montreal
Entrol Limited	571 Robert St., Lachute
Faymor Chemicals Ltd.	Greenfield Park
Gallowhur Chemicals Canada Ltd.	333 Canal Rd., Lachine
Grace, W.R. and Co. of Canada Ltd.	255 La Fleur Ave., Ville La Salle
Gusto Limited	Fort Chambly
Industrial Adhesives Ltd.	2524 Bois Frank Rd., St. Laurent
Inter-City Petroleum Co.	3745 Bouin Blvd. East, Montreal
Kem-O-Tex Chemicals Ltd.	425-21 Ave., Lachine
Kennedy, W. Alan Limited	112 McGill St., Montreal
Kleen-Flo Corp.	8677 Delmeade Rd., Mount Royal
Laboratoire Vincent Inc.	999 Ave. De Salaberry, Montreal
Laboratoires Choisy Ltée	Louisville
La Compagnie Unica	6715 Chateaubriand, Montreal
Laurentian Concentrates Ltd.	Thurso
Laurentide Chemicals Inc.	Shawinigan Sud
Les Produits Marquette Limitée	25 Courcellette, Quebec
Lignosol Chemicals Ltd.	Box 2025, Quebec
Madelon Degel Enrg.	6296 St. Andre, Montreal
Magnus Chemicals Ltd.	4040 Masson St., Montreal
Moran Chemical Co. Ltd.	7944-14 Ave., St. Laurent
Morvan Limited	531 St. Louis, Lachine
National Starch and Chemical Co. Canada Ltd.	2125 Remembrance 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	Greenfield Park
Pope, Allen Products Reg'd.	385 Concord, Montreal
Prescott Robinson Sales Company Limited	50 Maple Blvd., Lachine
Printcraft Supply Co. Ltd.	254 Queen St., Montreal
Produits Chimiques Empire Inc.	720 St. Vallier W., Quebec
Produits Lypol Products	Pont Viau
Protection Chemical & Aerosol Products Ltd.	5747 Souigny St., Montreal
Quinn, K.J. and Co. (Canada) Ltd.	5955 Souigny, Montreal
Record Chemical Co. Inc.	840 Montee De Liesse, Montreal
Richelieu Chemical Co. Ltd.	144 Laurier St., St. Johns
Robert Chemical Co. Ltd.	550 Sebastopol St., Montreal
Robertson, J.S. Ltd.	175 Lagauchetiere St. W., Montreal
Royal Ink and Blacking Co.	17 Ontario St. E., Montreal
Service Adhesives Corp.	10001 St. Vital St., Montreal North
Sew Fast Sales Reg'd.	Lachute
Sherwin-Williams Co. of Canada Ltd.	2875 Centre St., Montreal
Siltan Chemicals Reg'd.	St. Joseph
Stahl Finish Co. (Canada) Ltd.	380 Deslauriers St., St. Laurent
Success Wax Limited	238 St. Valliers East, Quebec
Swift Canadian Co. Ltd.	215 Maguire St., Montreal
Trio Packaging Ltd.	St. Janvier
Union Products Inc.	1150 Conway St., Montreal
Utility Products Co.	911 Ontario St. E., Montreal
Vac Inc.	Ville St. Michel
Vaillancourt, A. and C.	R.R. 1, Val Limoges
Waldox Corporation	7498-19th Ave., St. Michel, Montreal
West Chemical Products Ltd.	5621 Casgrain Ave., Montreal
Wolverine Products and Sales Ltd.	1501 Bercy St., Montreal
Wonder-Sweep Mfg. Reg'd.	St. Andrews East
Wood, G.H. and Co. Ltd.	4600 Jean Talon St. W., Montreal
Ontario:	
Acheson Colloids (Can.) Ltd.	Shaver St., Brantford
Adams, J.C. Co. Ltd.	Orangeville
Aerocide Dispensers Limited	Rexdale

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
B. Other Chemical Industries, n.e.s. - Continued	
Ontario - Continued:	
Aerosol D.D.T. Bug-Blitzer Co.	10 Dell Park Ave., Toronto
Agressi of Canada Ltd.	2430 Fairview Ave., Burlington
Alkaril Chemicals Ltd.	Cooksville
Alchem Limited	Burlington
Amchem Products Inc.	2224 Walker Rd., Windsor
Archer-Daniels-Midland Company (Canada) Ltd.	200 Fairbank Ave., Toronto
Ardox Limited	Niagara on the Lake
Atlas Powder Co. of Canada Ltd.	Brantford
Barrett Co. Ltd., The	675 Lake Shore Blvd. E., Toronto
Beacon Chemicals of Canada Limited	Milton
Bell Chemicals Ltd.	83 Mead Ave., Hamilton
Bellak Brothers Limited	1 Croft St., Toronto
Berlou Company (Canada) Limited, The	Box 84, London
Bird-Archer Co. Limited, The	Cobourg
Blachford, H.L. Limited	Etobicoke
Blue Bird Dust Absorber	452 McArthur Rd., Ottawa
Bobby Calf Finishes and Dyes	Newmarket
Bordon Chemical Co. (Canada) Ltd., The	West Hill
Boyle-Midway (Canada) Ltd.	Box 7, Toronto
Bubble Bath Laboratories Ltd.	Dunnville
Budget Products Limited	West Lorne
Bush Roller Co. Ltd.	2242 Lake Shore Rd., Toronto
C.C. Chemicals Ltd.	Thornhill
Canada Glue Co. Ltd.	Mohawk Rd., Brantford
Canada Rex Spray Company Limited	Brighton
Canadian Aniline and Extract Co. Limited	162 Ward Ave., Hamilton
Canadian Helmitan Co. Ltd., The	97 Shorncliffe, Toronto
Canadian Marietta Ltd.	Georgetown
Canadian Self Spray Dispensers	75 Saultier St., Toronto
Canadian Shaler Products Company Limited	29 Dartnell Ave., Toronto
Canadye Corporation, The	129 Rebecca St., Hamilton
Capo Polish Limited, The	Burlington
Carter, H.J. Limited	139 Stephenson Ave., Toronto
Castle Chemical Works	1090 King St. W., Toronto
Charcoal Supply and Sales of Ontario Ltd.	South River
Chipman Chemicals Ltd.	Box 100 Station C., Hamilton
Commercial Oil Co. of Hamilton Ltd., The	420 Jackson St. W., Hamilton
Compagnie Parento Limited	Scarborough
Connecticut Chemical (Canada) Ltd.	Curity and Hollinger Rds., Toronto
Continental Chemical Co.	275 Ellerslie Ave., Willowdale
Copeland Products	383 Sutherland Drive, Leaside
Cromac Chemical Co. Limited	203 Bentworth Ave., Toronto
Curry Products Limited	87 Sheaffe St., Hamilton
Dearborn Chemical Company Limited	2454-2464 Dundas St. W., Toronto
Deodor-x Company of Canada Limited	9 Phoebe St., Toronto
Deplex Adhesives Ltd.	133 Jefferson Ave., Toronto
De Soto Chemical Products Ltd.	133 Laird Drive, Toronto
Dodge Chemical Co. (Canada) Ltd., The	26 Cumberland St., Toronto
Domtar Chemicals Ltd.	Hamilton, Sault Ste. Marie, Toronto
Drew, E.F. and Co. Ltd.	Ajax
Dubois Chemicals of Canada Ltd.	Weston
Dura Chemical Co.	14 Bradford, Hamilton
Dustbane Mfg. Co. Ltd.	88 Metcalfe St., Ottawa
Dye and Chemical Co. of Canada Ltd.	River and Orchard Sts., Kingston
Eckels, H.S. and Company (Canada) Ltd.	349 Olivewood Rd., Toronto
Eddy Match Company Limited	Pembroke
Elco Lubricant of Canada Ltd.	200 Fairbank Ave., Toronto
Embalmers Supply Co. of Canada Ltd., The	Rexdale
Epoxy-lite of Canada Ltd.	Fort Erie
Everett and Barron of Canada Ltd.	914 Dufferin St., Toronto
F.M.C. Machinery and Chemicals Ltd.	Burlington
Fairview Chemical Company	56 Newcastle St., Toronto
Fuller, H.B. Co. (Canada) Ltd.	66 Carnforth Road, Toronto
Garnak Chemical Co. Ltd.	Port Hope
General Sawdust Co.	Rear 163 Manning Ave., Toronto
Halton Chemical Co. Ltd.	Burlington
Hart Products Company of Canada Limited	Guelph
Hawes, Edward Co. Ltd.	Don Mills
Hercules Powder Company (Canada) Ltd.	Burlington
Holcomb, J.I. Mfg. Co. of Canada Ltd.	890 Caledonia Rd., Toronto
Hollingshead, R.M. Co. of Canada Ltd., The	1 Mobile Drive, Toronto
Home, A.C. Co. Ltd.	Scarborough
Howard, A.H. Chemical Co. Ltd.	Orangeville
Industrial Adhesives Ltd.	90 Tycos Drive, Toronto
Industrial Chemicals and Solvents Ltd.	995½ Barton E., Hamilton
Industrial Waxes Limited	London
International Waxes Limited	Agincourt
"It" Company Ltd., The	18 Medulla Ave., Toronto
Johnson, S.C. and Son Ltd.	Brantford
Keimer and Co. (Canada) Limited	10 Trent Ave., Toronto
King Calcium Products Co. Ltd.	Campbellville
Kiwi Polish Co. (Canada) Ltd., The	Hamilton
Lastoplex Chemicals	66 Eugene St., Toronto
Lecithin Products (Canada) Ltd.	Belleville
Le Page's Limited	404 Kipling Ave., Toronto
Lincoln Chemicals Ltd.	St. Catharines
Lloyd's Laboratories Limited	Rouge Hill
Lubrizol of Canada Ltd.	Niagara Falls

List of Establishments classified to This Industry, 1963 - Continued

Name	Location
B. Other Chemical Industries, n.e.s. - Continued	
Ontario - Concluded:	
Lucidol Division Wallace and Tiernan	Fort Erie
M. and T. Products of Canada Ltd.	Rexdale
McAleer Mfg. Co. Ltd.	Etobicoke
MacCallum Mfg. Co. Ltd.	2 Primrose Ave., Toronto
Machon Sealing Wax Co., The	498 Eastern Ave., Toronto
Maitland Development Co. Ltd.	Maitland
Master Builders Co. Limited, The	North York Twp.
Mercury Chemical Co. Ltd.	1005 Walker Rd., Windsor
Momar Canada Limited	446 Birchmount Rd., Toronto
National Starch and Chemical Co. (Canada) Ltd.	363-379 Wallace Ave., Toronto
New Surpass Petrochemicals Ltd.	Scarborough
Nonsuch Products	1912 Mattawa Ave., Cooksville
Nopco Chemical Canada (1955) Ltd.	Box 649, Hamilton
Norda Limited	2 Plants: Vankleek Hill, 833 King St. W., Toronto
Nymoc Products Co.	47 Duke St., Toronto
Ortho Agricultural Chemicals Ltd.	Oakville
Parker Rust Proof Company of Canada Ltd.	Rexdale
Pennsalt Chemicals of Canada Ltd.	Oakville
Perm-Flex Industries Ltd.	90 Bridgeand Ave., Toronto
Peterman Products Company	1 Bathurst St., London
Plunkett Chemical Co. (Canada) Ltd.	302 Cumberland Ave., Hamilton
Poole, J.F. Co. Ltd., The	164 Bentworth Ave., Toronto
Quaker City Chemical Co. of Canada Limited	16 Birmingham St., Hamilton
Radiator	Toronto
Red Line Chemicals of Canada Limited	Mimico
Reeves, L.A., Ink Co. Ltd.	217 Niagara St., Toronto
Reliable Chemical Products Co.	85 Cannon St. W., Hamilton
Renovator	625 Bartlett Drive, Windsor
Ross, Frank T. and Sons Ltd.	Scarborough
Roy Chemicals and Sales	303 Windermere Rd., Windsor
Russell, L.B. Chemicals (Canada) Ltd.	12 Carlaw Ave., Toronto
S.A.C. of Canada Ltd.	Scarborough
Scholler Brothers Limited	Welland & Vine Sts., St. Catharines
Security Formula and Testing Ltd.	524 Front St. W., Toronto
Shell Oil Company of Canada Limited	Box 400 Terminal A, Toronto
Shell Oil Company of Canada Limited	Simcoe
Silton Chemicals	Acton
Simoniz Company Ltd.	244 Bartley Drive, Toronto
Sitko Products Co.	Sudbury
Somar Research Institute Ltd.	67 Frederick St., Toronto
Smith, Wilbor and Associates	Port Colborne
Stadex-Pirie Limited	119 Water St., Brockville
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	424 Ridout St., London
Superior Biochemicals of Canada Ltd.	Scarborough
Swift Canadian Co. Ltd.	1960 St. Clair Ave. W., Toronto
Taylor Atlas Products Ltd.	Woodbridge
Taylor and McKibbin Ltd.	127 Raleigh Ave., Toronto
Technical Adhesives Ltd.	Cooksville
Temuss Products Canada Ltd.	Ajax
Tennier Chemical and Sales Co.	124 Jackson St. E., Hamilton
Thompson, G.F. Company Ltd.	Scarborough
Tilleys Limited	430 College St., Toronto
Tumbler, J.S. Laboratories Ltd., The	Scarborough
Unichem Company Ltd.	Scarborough
Uniform Company Ltd.	Scarborough
Upward Investments Ltd.	Cooksville
Van Camp Products & Sales Ltd.	60 Clarkson, Toronto
Viegras, Gabriel	Utopia
Vix Products Co.	1057 Felix Ave., Windsor
Washburn, T.F. Canada Ltd.	Preston
Wilson Laboratories Limited	Dundas
Wolverine Cement Co. Ltd.	Brantford
Wood, G.H. and Co. Ltd.	Queen Elizabeth Blvd., Toronto
Wynn's Friction Proofing Canada Ltd.	Rexdale
Manitoba:	
Arctic Sur-Flow Co.	614 Des Meurons, St. Boniface
Chipman Chemicals Limited	Box 100 Station C., Hamilton
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.	2875 Centre St., Montreal
Swift Canadian Co. Ltd.	Archibald St., St. Boniface
Ultra Modern Chemicals Ltd.	437 Kensington St., Winnipeg
Saskatchewan:	
Chipman Chemicals Limited	Moose Jaw
Fairview Chemical Co. Ltd.	1355 St. John St., Regina
Grier Manufacturing Chemists Ltd.	1600 Toronto St., Regina
Niagara Brand Chemicals, Div. of F.M.C. Machinery & Chemicals Ltd.	Regina

List of Establishments classified to This Industry, 1963 - Concluded

Name	Location
B. Other Chemical Industries, n.e.s. - Concluded	
Alberta:	
Allied Chemical Services Ltd.	5507 - 1st St. S.E., Calgary
Brakesol Canada Limited	4134 - 16th St. S.E., Calgary
Canada West Products Co.	718 Second Ave. W., Calgary
Charlite Industries Ltd.	Hwy. 16 A. East, Edmonton
Cummings Specialized Products Ltd.	1105 - 12th St. S.E., Calgary
Custom Miracle Chemicals	Box 991, Calgary
Etemacrete Products Ltd.	14810 - 123 Rd. Ave., Edmonton
Glazol Manufacturing Ltd.	4235 - 16th St. S.E., Calgary
T-Line Chemicals Ltd.	828 - 24 Ave. S.E., Calgary
Windar Adhesives Corp. Ltd.	8045 Coronet Rd., Edmonton
British Columbia:	
Adherite Products Ltd.	987 E. Cordova St., Vancouver
Ansell Chemical Co. Limited	Vernon
Bardahl Lubricants (Western) Ltd.	2060 W-10th Ave., Vancouver
British American Chemicals Co. Ltd.	1001 E. Pender St., Vancouver
Chemco Manufacturing Co. Ltd.	1196 E. Pender, Vancouver
Concrete Control Products Ltd.	1477 S.W. Marine Drive, Vancouver
Custom Concrete Ltd.	2070 W-10th Ave., Vancouver
Dominion Wax Corporation Ltd.	2060 W-10th Ave., Vancouver
Dustbane Mfg. Co. Ltd.	845 East Hastings, Vancouver
East West Chemicals Ltd.	60 E-4th Ave., Vancouver
Eddy Match Co. Ltd.	Mission City
Field, A.H.T. and Co. Ltd.	1269 E. Broadway, Vancouver 12
General Dye and Chemical Co. Ltd.	1603 Franklin St., Vancouver
Goddard and Co.	Sidney
Industrial Formulators of Canada Ltd.	Vancouver
Later Chemicals Ltd.	300-330 Lysander Lane, Richmond
Noxall Products Ltd.	1820 W. 3rd. Ave., Vancouver
Oliver Chemical, Co. Ltd., The	Penticton
Ortho Agricultural Chemicals Ltd.	New Westminster
Peerless Products (1954) Ltd.	625 Clarke Drive, Vancouver
Pied Piper Products Ltd.	3129 Kingsway, Vancouver
Rayonier B.C. Limited (Silvachemical Div.)	Foot of Heather St., Vancouver
Renton Distributors Ltd.	1815 Franklin St., Vancouver
Sawyer's Sweeping Supplies	Langley
Simpson, A. Co.	1121 S.W. Marine Drive, Vancouver
Simpson, Harold	604 East 5th Ave., Vancouver
Swift Canadian Co. Ltd.	548 Brunette St., New Westminster
Tilton's Wax Ltd.	Burnaby
Tint Manufacturing Co. Ltd.	215 Belleville St., Victoria
Uniplast Products Ltd.	750 Powell St., Vancouver
Universal Enterprises Ltd.	236 East Esplanade, N. Vancouver
Wood, G.H. and Co. Ltd.	1835 East Hastings St., Vancouver
Xzit Chemicals Ltd.	1685 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 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

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

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

Establishment

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

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

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

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

Head Offices and Auxiliary Units

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

Employees

(a) Production and related workers – Manufacturing activity

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. 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. 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.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

(b) Production and related workers – Non-manufacturing activities

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

(c) Administrative and office employees

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,

etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

(d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

(e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

Salaries and Wages

Salaries and wages refer to gross earnings of employees **before** deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

(b) Shipments of goods of own manufacture

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

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the



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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 materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By 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

purchased for re-sale) and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

(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 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".