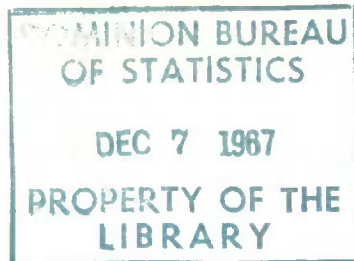


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ANNUAL



OTHER CHEMICAL INDUSTRIES

1965

ANNUAL CENSUS OF MANUFACTURES

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PUBLICATIONS

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OTHER CHEMICAL INDUSTRIES

1965

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.

Value of shipments and other revenue of the Other Chemical Industries totalled \$302 million, an increase of \$17 million over 1964. 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 \$173 million, and revenue from secondary products amounted to \$65 million and other revenue totalled \$64 million.

The cost of materials and supplies, fuel and electricity, etc. (inputs) used in the production of goods of own manufacture increased by \$14.3 million. Cost of inputs in 1965 represented 54.5 per cent of the value of shipments of own manufacture (outputs), compared to 53.8 per cent in 1964.

It should be noted that Table 13 covers the shipments of the establishments classified to this industry, whereas Table 14 presents the total value of shipments of 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, 1961-65

Year and province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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													
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	13	31	48	8	585	847	282	3	6	24	119	283
Prince Edward Island	1												
Nova Scotia	5												
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	x	x	49	224	903
British Columbia	39	143	297	605	130	2,312	5,498	2,941	x	x	280	1,281	3,317
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	365	4,139	8,866	17,104	2,813	111,428	214,099	100,433	65	223	8,397	44,003	118,598
1965													
Newfoundland	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island	1	15	33	57	28	660	1,109	482	3	3	27	131	447
Nova Scotia	5												
New Brunswick	1												
Quebec	102	1,002	2,155	3,866	802	23,366	51,718	27,866	20	81	2,156	11,351	32,014
Ontario	186	2,997	6,541	13,189	1,964	91,289	166,907	75,409	26	104	6,149	33,996	85,098
Manitoba	10	51	125	231	34	4,734	6,985	2,330	x	x	110	602	2,639
Saskatchewan	4	11	23	41	6	1,205	1,361	146	—	—	34	145	353
Alberta	9	28	59	106	11	1,463	1,989	577	x	x	49	244	774
British Columbia	36	137	291	621	143	2,838	6,431	3,502	x	x	275	1,355	4,176
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	31	8	15	17	—	77	174	95	19	34	22	40	95
\$ 10,000 to \$ 24,999	30	30	57	80	1	201	470	270	19	58	47	119	297
25,000 " 49,999	39	66	132	192	15	703	1,431	755	18	69	114	374	846
50,000 " 99,999	45	130	270	447	45	1,668	3,334	1,663	5	36	244	1,045	2,136
100,000 " 199,999	48	179	373	632	64	3,377	6,899	3,232	4	26	400	1,904	3,766
200,000 " 499,999	68	561	1,181	1,944	285	11,776	22,563	10,410	—	—	1,156	5,635	13,544
500,000 " 999,999	38	572	1,229	2,410	265	14,192	28,044	13,707	—	—	1,238	6,733	17,517
1,000,000 " 4,999,999	63	2,322	5,060	10,352	2,046	66,363	128,569	60,771	—	—	4,468	24,498	66,389
5,000,000 and over	3	271	549	1,030	91	13,072	22,615	9,539	—	—	546	2,806	13,323
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	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
1965													
Under \$10,000	26	8	15	17	—	68	166	97	18	36	17	30	102
\$ 10,000 to \$ 24,999	27	33	62	84	6	223	482	258	14	54	53	136	278
25,000 " 49,999	26	50	100	156	10	454	946	486	11	49	83	291	575
50,000 " 99,999	47	138	288	432	39	1,893	3,425	1,525	6	36	260	1,042	2,043
100,000 " 199,999	55	221	480	845	127	3,962	7,874	3,819	3	26	474	2,241	4,926
200,000 " 499,999	62	503	1,065	1,859	241	10,821	20,817	9,753	—	—	1,045	5,531	11,811
500,000 " 999,999	40	546	1,167	2,308	306	15,707	29,863	14,136	—	—	1,143	6,427	16,262
1,000,000 " 4,999,999	68	2,410	5,342	11,061	2,145	72,119	142,583	70,057	—	—	4,824	27,532	78,782
5,000,000 and over	3	332	709	1,350	114	20,309	30,345	10,181	—	—	685	3,297	10,142
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	53	23	43	58	1	281	530	246	34	73	45	99	273
\$ 10,000 to \$ 24,999	51	85	171	270	27	1,363	2,317	852	17	66	161	581	1,138
25,000 " 49,999	46	124	262	427	47	2,237	4,031	1,493	12	73	232	949	1,803
50,000 " 99,999	57	281	592	954	144	6,882	11,195	4,135	2	11	538	2,491	5,082
100,000 " 199,999	46	398	851	1,510	190	10,051	16,781	6,606	—	—	793	3,903	8,155
200,000 " 499,999	49	761	1,616	3,018	448	20,209	36,424	16,157	—	—	1,492	7,822	21,661
500,000 " 999,999	38	1,108	2,440	4,932	683	28,460	56,418	27,514	—	—	2,327	12,847	29,767
1,000,000 " 4,999,999	25	1,359	2,892	5,935	1,273	41,945	86,403	43,440	—	—	2,647	14,460	50,034
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	162	850	685
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	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
1965													
Under \$10,000	41	44	85	140	39	358	590	159	23	54	69	205	529
\$ 10,000 to \$ 24,999	52	92	194	304	27	1,554	2,425	859	22	96	180	711	1,384
25,000 " 49,999	48	156	324	504	48	3,075	4,801	1,733	7	52	289	1,165	2,364
50,000 " 99,999	47	208	432	724	78	5,592	9,055	3,409	—	—	410	1,868	4,073
100,000 " 199,999	45	328	696	1,214	157	7,631	14,217	6,484	—	—	658	3,356	7,326
200,000 " 499,999	54	765	1,656	3,230	509	21,752	40,183	18,079	—	—	1,570	8,874	21,718
500,000 " 999,999	37	1,059	2,323	4,678	812	30,669	57,990	27,037	—	—	2,044	11,555	29,376
1,000,000 " 4,999,999	30	1,589	3,515	7,317	1,318	54,925	107,240	52,550	—	—	3,364	18,793	58,151
5,000,000 and over .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under \$10,000	52	21	39	56	2	296	537	247	33	70	43	99	246
\$ 10,000 to \$ 24,999	46	73	144	212	18	1,132	2,026	749	17	65	135	446	760
25,000 " 49,999	43	109	232	376	42	1,968	3,604	1,358	12	64	201	765	1,491
50,000 " 99,999	51	215	454	706	83	5,305	8,450	3,176	3	23	404	1,774	3,610
100,000 " 199,999	51	375	774	1,348	164	8,948	15,265	6,185	—	—	727	3,548	7,101
200,000 " 499,999	50	688	1,479	2,669	458	19,570	34,336	14,478	—	—	1,336	6,883	16,899
500,000 " 999,999	44	1,273	2,807	5,731	782	32,101	61,719	29,233	—	—	2,533	14,139	33,062
1,000,000 " 4,999,999	28	1,385	2,936	6,006	1,266	42,107	88,164	45,016	—	—	2,856	15,500	54,743
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	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
1965													
Under \$10,000	39	25	44	59	7	222	398	162	23	54	46	103	166
\$ 10,000 to \$ 24,999	41	54	115	171	12	817	1,464	650	21	90	94	320	693
25,000 " 49,999	46	139	288	426	38	2,271	3,750	1,489	7	42	240	895	1,685
50,000 " 99,999	45	187	394	652	74	5,001	8,049	2,942	1	16	352	1,547	3,248
100,000 " 199,999	56	396	829	1,414	178	8,754	15,507	6,669	—	—	791	3,874	8,065
200,000 " 499,999	50	623	1,368	2,697	466	18,332	33,691	15,039	—	—	1,273	7,467	16,557
500,000 " 999,999	42	1,091	2,381	4,767	816	31,894	59,444	27,199	—	—	2,165	11,932	30,964
1,000,000 " 4,999,999	35	1,725	3,809	7,926	1,398	58,264	114,198	56,160	—	—	3,623	20,390	63,544
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Employees		Value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1964													
Under 5 employed	121	127	257	403	37	2,477	4,527	1,975	56	171	231	829	2,161
5- 14 employed	112	468	988	1,806	222	16,261	28,380	12,085	9	52	927	4,786	16,165
15- 49 "	81	1,171	2,512	4,791	997	38,977	71,190	31,086	—	—	2,255	12,126	34,545
50- 99 "	37	1,206	2,591	5,219	1,028	29,606	60,312	30,071	—	—	2,489	13,372	34,336
100-199 "	10	697	1,491	2,858	445	17,714	31,685	13,582	—	—	1,320	6,674	15,819
200-499 "	4	470	1,026	2,028	84	6,393	18,005	11,643	—	—	1,013	5,367	14,888
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	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
1965													
Under 5 employed	105	122	248	393	43	3,060	5,249	2,161	45	152	219	790	2,330
5- 14 employed	115	494	1,058	1,918	283	15,359	27,838	12,417	7	49	997	5,054	14,173
15- 49 "	81	1,143	2,443	4,682	958	36,421	66,927	29,777	—	—	2,225	12,375	34,568
50- 99 "	36	1,121	2,482	5,165	875	31,292	66,440	35,286	—	—	2,366	13,805	39,332
100-199 "	12	686	1,459	3,151	682	18,602	35,179	16,383	—	—	1,459	8,146	18,867
200-499 "	5	675	1,537	2,802	147	20,821	34,868	14,286	—	—	1,318	6,358	15,651
500 employed and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

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		Employees		Value added
		Number	Man-hours paid	Wages					Number	With-drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
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
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	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
1965													
Individual ownerships	42	44	86	115	7	534	1,030	493	42	157	57	170	557
Partnerships	5	9	19	25	5	150	243	88	10	44	10	29	96
Incorporated companies	307	4,188	9,122	17,971	2,977	124,872	235,228	109,730	...	...	8,517	46,328	124,270
Co-operatives													
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	216	1,296	578
Totals	354	4,241	9,227	18,112	2,988	125,556	236,501	110,311	52	202	8,800	47,824	125,500

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

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1964	1965	1964	1965	1964	1965
\$'000						
Output						
1. Shipments and other revenue	214,099	236,501	71,023	64,304	285,122	300,805
Inventories— Goods of own manufacture:						
Add closing— Goods in process	1,458	1,741	...	...	1,458	1,741
Finished goods	14,971	16,951	...	...	14,971	16,951
Deduct opening— Goods in process	1,469	1,495	...	...	1,469	1,495
Finished goods	14,375	14,843	...	...	14,375	14,843
2. Net inventory change	585	2,354	...	...	585	2,354
3. Gross output (1 + 2)	214,684	238,855	71,023	64,304	285,707	303,159
Input						
4. Purchases of goods not of own manufacture .....	...	...	52,550	48,418	52,550	48,418
Inventories— Goods not of own manufacture:						
Add opening .....	...	...	4,784	5,144	4,784	5,144
Deduct closing .....	...	...	5,670	5,739	5,670	5,739
5. Cost of goods sold (not of own manufacture) .....	...	...	51,664	47,823	51,664	47,823
6. Materials, supplies, etc.	111,428	125,556	1,203	1,292	112,631	126,848
7. Fuel and electricity	2,813	2,988	...	...	2,813	2,988
8. Gross input (5 + 6 + 7)	114,241	128,544	52,867	49,115	167,108	177,659
Value added (3 - 8)	100,443	110,311	18,155	15,189	118,598	125,500

TABLE 8. Employment and Payroll, 1964 and 1965

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufac- turing	Other				
	number										\$'000					
1964																
Newfoundland	}															
Prince Edward Island																
Nova Scotia		12	1	-	-	9	1	1	-	22	2	48	-	64	6	119
New Brunswick																
Quebec		880	119	41	-	408	243	385	5	1,714	367	3,766	99	3,927	2,693	10,484
Ontario		2,367	531	1	4	1,127	737	966	96	4,461	1,368	12,356	25	11,341	7,582	31,304
Manitoba		47	2	-	-	20	13	21	-	88	15	197	-	122	132	450
Saskatchewan		9	1	-	-	11	1	7	2	27	4	33	-	48	62	143
Alberta		23	4	-	-	9	9	4	-	36	13	100	-	90	34	224
British Columbia		122	21	-	-	58	36	41	2	221	59	605	-	405	271	1,281
Yukon and Northwest Terri- tories		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals		3,460	679	42	4	1,642	1,040	1,425	105	6,569	1,828	17,104	123	15,996	10,779	44,003
1965																
Newfoundland	}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island																
Nova Scotia		14	1	-	-	9	1	2	-	25	2	57	-	60	14	131
New Brunswick																
Quebec		885	117	37	-	412	254	437	14	1,771	385	3,866	94	4,088	3,303	11,351
Ontario		2,368	629	4	5	1,161	791	1,080	111	4,613	1,536	13,189	37	11,933	8,837	33,996
Manitoba		48	3	-	-	16	13	28	2	92	18	231	-	149	221	602
Saskatchewan		11	-	-	-	11	4	8	-	30	4	41	-	47	57	145
Alberta		24	4	-	-	9	7	5	-	38	11	106	-	102	35	244
British Columbia		116	21	-	-	62	31	42	3	220	55	621	-	446	288	1,355
Yukon and Northwest Terri- tories		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals		3,466	775	41	5	1,680	1,101	1,602	130	6,789	2,011	18,112	130	16,826	12,756	47,824

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

Month	1964		1965	
	Male	Female	Male	Female
	number			
Establishments reporting monthly detail (large establishments only):				
January	2,950	620	2,949	635
February	2,975	600	2,975	661
March	2,987	573	3,013	712
April	3,069	598	3,110	693
May	3,103	596	3,169	673
June	3,182	639	3,219	713
July	3,085	512	3,106	590
August	3,163	609	3,193	633
September	3,057	599	3,125	785
October	3,043	652	3,052	759
November	3,027	585	3,017	680
December	3,017	620	2,977	648
Averages	3,070	601	3,227	706
Establishments reporting annual averages (small establishments only)	390	78	239	69
Average for all establishments	3,460	679	3,466	775

TABLE 10. Inventories, 1965

Province	Manufacturing				Non-manufacturing	Total inventories
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	106	—	76	182	5	186
Nova Scotia						
New Brunswick						
Quebec	2,963	313	2,503	5,779	827	6,606
Ontario	12,780	1,007	10,639	24,426	3,641	28,067
Manitoba	750	67	372	1,188	335	1,523
Saskatchewan	149	56	306	511	74	585
Alberta	97	8	354	459	51	510
British Columbia	531	44	593	1,168	212	1,380
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	17,375	1,495	14,843	33,713	5,144	38,857
Closing:						
Newfoundland	—	—	—	—	—	—
Prince Edward Island	156	—	137	293	15	307
Nova Scotia						
New Brunswick						
Quebec	3,141	356	2,776	6,273	916	7,189
Ontario	14,498	1,221	12,180	27,899	4,183	32,082
Manitoba	941	55	496	1,493	243	1,736
Saskatchewan	180	48	310	538	79	618
Alberta	115	9	415	539	55	594
British Columbia	614	50	638	1,302	248	1,550
Yukon and Northwest Territories	—	—	—	—	—	—
Totals	19,645	1,741	16,951	38,337	5,739	44,076

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

Description	1964		1965	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments reporting commodity detail:				
Bituminous coal:				
(a) From Canadian mines	ton	11,563	12,478	144
(b) Imported	"	7,419	4,214	52
Sub-bituminous coal (from Alberta mines only)	"	—	—	—
Anthracite coal	"	728	497	8
Lignite coal	"	—	—	—
Coke	"	—	—	—
Gasoline (including gasoline used in cars and trucks)	1mp. gal.	395,264	1,034,915	409
Fuel oil including kerosene or coal oil	"	11,959,842	9,616,816	940
Wood	cord	440	710	6
Gas:				
(a) Liquefied petroleum gases	1mp. gal.	43,188	31,574	8
(b) Other manufactured gas	M cu. ft.	92,480	79,341	22
(c) Natural gas	"	260,106	288,195	247
Other fuel .....	"	...	...	36
Electricity purchased	kwh.	81,019,316	77,614,750	798
Steam purchased .....		...	...	177
2. Small establishments not reporting commodity detail:				
Estimate for fuel and electricity		133	...	142
3. All establishments:				
Total fuel and electricity used		2,813	...	2,988

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

A. Manufacturers of Printing Inks

Description		1964		1965	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:					
Carbon black.....	lb.	2,148,204	261	2,390,242	292
Driers	"	..	158	..	141
Dry colours	"	..	2,982	..	3,252
Dyes	"	..	50	..	64
Flushed colours	"	..	864	..	1,029
Glue	lb.	58,217	21	32,180	16
Glycerine	"	80,962	20	57,440	17
Gums and resins:					
Natural	"	401,412	103	392,803	114
Synthetic	"	4,422,861	1,185	4,678,245	1,252
Oils:					
China-wood (Tung).....	"	49,432	17	63,329	20
Linseed	Imp. gal.	98,964	169	116,387	186
Petroleum ink oils	"	1,582,211	434	1,607,696	434
Other oils	lb.	108,529	18	68,846	20
Solvents (benzol, naphtha, alcohol, etc.)	Imp. gal.	995,020	519	1,107,872	596
Varnishes	"	308,446	881	405,819	970
Wax (beeswax, carnauba, paraffin, etc.)	lb.	105,532	38	91,365	38
All other materials and components used	"	..	1,495	..	1,808
2. Containers and other packaging materials and supplies used	"	..	555	..	571
3. Operating, maintenance and repair supplies used (excluding fuel)	"	..	228	..	223
4. Amount paid out to others for work done on materials owned by establishments	"	..	11	..	-
Totals			10,009		11,042

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

Description		1964		1965	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used:					
Acetone	lb.	539,735	54	679,416	61
Acids:					
Cresylic (including cresols)	"	357,586	49	397,902	55
Hydrochloric (muriatic)	"	564,704	61	518,882	37
Oxalic	"	652,379	126	930,483	178
Oxalic	"	261,094	53	167,700	37
Phosphoric	"	2,324,793	201	2,379,253	192
Stearic	"	1,228,222	201	1,229,204	211
Sulphuric, 100%	"	24,207,301	338	29,959,470	409
Alcohol:					
Butyl (including isobutanol)	"	300,479	67	352,886	68
Ethyl	Imp. gal.	641,178	730	1,089,981	1,272
Isopropyl	lb.	4,990,381	364	5,359,598	436
Methyl	Imp. gal.	474,858	294	1,551,946	429
Aldrin, technical	lb.	255,148	229	295,250	261
Ammonia, anhydrous	"	3,846,565	183	6,957,891	221
Arsenic, white (As ₂ O ₃)	"	437,099	29	421,646	27
Arsenic acid (As ₂ O ₅)	"	435,440	17	247,920	10
Asphalt	Imp. gal.	902,816	153	494,158	93
Bones	ton	9,916	397	10,168	427
Borax	lb.	1,718,065	100	1,571,606	91
Calcium arsenate	"	40,094	3	24,875	2
Calcium carbonate (whiting and chalk)	"	1,633,949	36	2,211,679	59
Calcium chloride	"	2,303,907	70	2,979,982	64
Carbon black	"	366,327	41	210,850	32
Carbon tetrachloride	"	363,757	49	327,933	45
Casein	"	794,071	208	716,502	239
China clay (kaolin)	"	3,424,320	79	3,766,215	92
Copper sulphate	"	156,601	44	94,217	25
D.D.T. (dichloro, diphenyl trichlorethane)	"	769,032	142	719,939	160
Dextrine	"	11,022,004	1,110	6,806,678	723
Dry colours	"	..	347	..	194
Ethanolamines (mono, di, tri)	lb.	1,990,581	536	1,948,492	499
Ethylene glycol (see also "glycols, other")	"	8,253,492	1,208	10,077,922	1,504
Flour:					
Potato	"	137,532	11	181,832	17
Tapioca	"	206,716	23	216,529	24
Wheat	"	4,006,752	152	1,496,478	102
Other	"	187,005	10	218,478	14
Formaldehyde, 100% solids basis	"	1,184,053	128	1,872,163	195
Glycerine	"	872,402	229	992,006	285
Glycols, other (see also "ethylene glycol")	"	662,853	153	895,326	173
Glucose	"	592,596	54	626,304	56
Glue:					
Bone and hide	"	1,046,752	332	1,129,712	360
Fish	"	216,551	42	373,663	77
Grass	"	1,282,199	120	1,205,142	112
Gums and resins, natural	"	660,460	188	832,594	221
Hides and hide trimmings	ton	19,630	288	18,432	276
Iron, scrap	"	1,673	37	1,739	38
Lignin liquor	Imp. gal.	557,165	79	708,354	107
Linseed	ton	3,939	69	2,303	55
Maleic acid, technical	lb.	51,696	61	88,734	104
Litharge	"	390,887	55	256,291	41

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

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

Description		1964		1965	
		Quantity	Cost \$'000	Quantity	Cost \$'000
1. Materials used - Concluded:					
Malathion, technical	lb.	79,242	81	80,653	84
Naphthalene	"	12,566,681	569	15,534,970	720
Oils:					
Castor	"	561,000	103	588,574	96
China-wood (Tung)	"	88,598	29	108,276	35
Cocconut	"	1,298,575	224	1,207,249	208
Cod	"	798,277	80	663,489	79
Essential	"	..	1,133	..	1,154
Fish	lb.	1,189,293	148	3,462,731	362
Lard	"	1,747,805	222	1,923,928	249
Linseed:					
Raw	Imp. gal.	87,168	103	107,805	125
Boiled or processed	"	14,713	24	45,708	70
Mineral	"	1,019,458	196	1,451,484	639
Neat's foot	lb.	199,829	30	191,299	28
Pine	"	1,194,817	225	568,827	105
Silicone oil	"	56,506	113	89,443	204
Soyabean	"	2,062,893	249	1,856,618	259
Tall (refined and crude)	"	29,944,642	1,125	30,490,522	1,164
Other oils	"	4,538,953	368	6,906,599	625
Paradichlorobenzene	"	2,732,721	332	3,671,772	436
Pentachlorophenol	"	93,702	23	182,027	35
Petroleum distillates (naphtha, gasoline, etc.)	Imp. gal.	5,293,596	1,589	10,092,552	2,203
Phenol	lb.	1,689,721	233	1,770,620	226
Phosphorus, amorphous	"	32,830	18	41,272	24
Phosphorus sesquisulphide	"	30,614	12	26,248	11
Phthalic anhydride	"	695,421	87	925,638	104
Potassium bichromate	"	125,355	26	246,675	44
Potassium chlorate	"	861,006	109	987,375	129
Potassium hydroxide (caustic potash)	"	1,522,371	127	1,202,167	108
Pyrethrum	"	..	249	..	178
Resins, synthetic	lb.	23,317,491	4,637	24,676,606	5,223
Rotenone	"	153,456	36	156,134	35
Rubber or latex	"	5,780,280	1,698	5,827,727	1,707
Shellac:					
Bleached	"	190,435	103	202,051	98
Orange	"	36,551	12	30,957	11
Other grades	"	900,172	193	492,543	115
Silica sand or ground quartz	"	4,259,601	62	5,147,287	118
Sodium bichromate	"	778,075	104	825,554	117
Sodium carbonate (soda ash)	"	8,550,493	217	9,171,987	329
Sodium chlorate	"	643,110	47	195,259	13
Sodium fluoride	"	261,813	34	232,022	33
Sodium hydroxide (caustic soda)	"	14,993,573	521	15,677,396	603
Sodium, phosphates of:					
Monosodium phosphate	"	443,119	54	490,557	60
Disodium phosphate	"	690,254	69	739,035	78
Trisodium phosphate	"	1,832,522	133	2,127,033	155
Tetrasodium phosphate	"	7,178	1	44,847	6
Sodium tripolyphosphate	"	3,271,220	327	3,783,545	381
Tetrasodium pyrophosphate	"	787,247	81	798,241	76
Starch, corn	"	1,527,928	148	1,364,583	131
Sugar	"	1,228,066	138	1,029,050	80
Sulphur	"	7,952,663	101	8,521,735	116
Talc, ground	"	4,113,064	50	3,731,315	60
Tar, coal (crude)	Imp. gal.	26,060,721	3,009	22,627,403	2,687
Titanium oxide	lb.	1,072,107	256	1,201,589	285
Toluol (toluene)	"	4,865,088	196	3,576,240	162
Turpentine	Imp. gal.	20,892	11	24,103	14
Urea	lb.	4,383,506	205	5,453,413	251
Wax:					
Beeswax	"	102,202	61	91,166	51
Candelilla	"	8,880	6	14,559	10
Carnauba	"	289,981	190	528,037	246
Paraffin (including slack wax)	"	67,387,150	2,591	72,059,379	2,964
Synthetic	"	1,562,792	634	1,478,359	620
Other waxes	"	1,187,198	273	494,362	126
Xylol (xylene)	"	4,694,633	222	4,671,409	221
Zinc oxide	"	346,593	54	391,470	70
Zinc sulphate	"	538,702	43	915,912	134
2, 4-D, technical	"	4,575,156	1,682	5,016,952	1,748
Hardwoods	cord	15,673	128	12,378	100
Paper board	lb.	11,104,573	1,008	11,429,865	1,505
Wood blocks	"	..	..	..	..
Wood splints	"	..	291	..	241
All other materials and components used ¹	"	..	45,749	..	52,829
2. Containers and other packaging materials and supplies used		..	15,692	..	18,022
3. Operating, maintenance and repair supplies used (excluding fuel)		..	1,868	..	2,039
4. Amount paid out to others for work done on materials owned by establishments		..	1,100	..	636
Totals		..	101,419	..	114,514
Grand totals		..	110,428	..	125,566

¹ No detailed information on materials used was collected from small establishments, the estimated costs for which are included here. These estimated costs were \$7,482,895 in 1964 and \$7,764,367 in 1965.

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

A. Manufacturers of Printing Inks

Description	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Printers' inks:				
Newspaper	lb. 17,312,066	2,306	18,337,641	2,342
Letterpress	" 6,299,501	6,479	6,219,090	7,064
Lithographing	" 3,680,695	5,875	4,096,793	6,703
Other	" 10,802,978	5,517	12,205,464	6,243
Printers' rollers (see also Section B) .....	...	289	...	1
All other products .....	...	515	...	745
2. Amount received in payment for work done on materials and products owned by others .....	...	—	...	—
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	...	(23)	...	(178)
Net adjustment for establishments receiving progress payments	—	—	—	—
Total adjusted value of shipments and work done .....	...	20,959	...	22,918

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

Description	1964		1965	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
1. Products:				
Adhesives and cements:				
Linoleum cement	lb. 4,895,385	379	5,664,945	537
Rubber adhesives:				
Neoprene	gal. 489,167	1,977	531,950	1,984
Reclaims	" 67,174	212	1	1
Other (including natural rubber)	" 264,854	897	1,625,215	1,484
Synthetic resin adhesives:				
Polyvinyl acetate	lb. 19,651,063	6,038	19,672,509	5,668
Other	" ..	768	..	637
Glue:				
Bone and hide	lb. 6,276,378	1,559	6,552,561	1,564
Casein	" 443,675	85	791,576	200
Fish	" 1	1	363,598	241
Flexible	" 2,660,262	638	3,519,231	812
Vegetable:				
Dry	" 4,199,887	620	5,888,650	660
Liquid	" 17,114,101	2,085	16,820,427	1,975
Mucilage .....	...	1	...	1
Paste:				
Dry	lb. 9,650,301	1,473	12,087,589	1,876
Liquid	" ..	1,974	..	1,938
Adhesives and cements, other .....	...	..	..	..
Automobile chemicals:				
Antifreeze preparations	Imp. gal. 961,753	1,981	970,319	2,106
Brake fluids	" 298,904	946	301,672	1,007
Radiator compounds	" ..	284	..	455
Other	" ..	2,769	..	3,851
Boiler chemicals:				
For use by railroads .....	..	192	..	1
For marine use .....	..	182	..	1
For industrial use .....	..	5,168	..	5,518
Caulking compounds	lb. 4,871,969	404	2,009,688	245
Charcoal	ton 20,599	1,139	18,613	1,103
Cleaning preparations and washing compounds:				
Drain pipe cleaner	lb. 45,557	14	511,739	200
Floor cleaners	" ..	855	..	1,373
Hand cleaner	lb. 759,997	200	753,580	209
Scouring pastes and powders	" 77,393	24	77,485	19
Toilet bowl cleaner	" 3,780,534	1,029	5,752,393	1,110
Other cleaning preparations and washing compounds .....	..	5,176	..	5,908
Concrete admixtures (hardeners and proofers) .....	..	4,195	..	4,491
Creosote oil	Imp. gal. 7,286,306	1,334	1	1
Deodorants (except personal) .....	..	1,813	..	2,166
Detergents (synthetic organic)	lb. 19,513,297	3,237	19,713,656	3,465
Dyes	" 4,753,269	472	5,011,560	459
Disinfectants .....	..	1,304	..	1,011
Emulsifying fluid .....	..	325	..	702
Engine oil additives .....	..	219	..	64
India writing .....	..	64	..	168

¹ Confidential, included with "All other products".

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

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

Description	1964		1965	
	Quantity	Value \$'000	Quantity	Value \$'000
1. Products - Concluded:				
Lacquers Imp. gal.	371,986	953	372,575	810
Leather dressings and finishes (except polish) ..	..	2,070	..	3,010
Lighter fluid .....	..	286	..	258
Matches, in books..... No. of books	1,124,683,317	4,146	1,260,952,872	4,377
Oils, sulphonated:				
Castor lb.	422,760	77	500,061	87
Cocanut "	54,575	10	..	..
Neat's foot	183,637	42	..	..
Other, including special blends	1,778,820	201	1,171,684	174
Oils, except sulphonated	15,169,594	2,640	17,939,708	3,568
Paints, ready mixed (interior and exterior types) .. Imp. gal.	338,682	1,262	419,759	1,592
Pest control products:				
Agricultural dusts and sprays (arsenicals, synthetic organics, copper compounds and seed treatments) ..	..	2,891	..	7,562
Herbicides (chlorates, borates, 2, 4-D, 2, 4, 5-T, etc.) Other agricultural dusts and sprays ..	..	7,181	..	5,972
Household and industrial insecticides (fumigants, powders, dusts, sprays and repellents) ..	..	5,276	..	5,624
Rodenticides (mouse and rat poisons, gopher poisons, etc.) ..	..	161	..	179
Other pest control products .....	..	1,937	..	1,621
Pitch ton	90,072	3,781	..	..
Polishes:				
Automobile .....	..	840	..	977
Brass .....	..	33	..	..
Floor wax:				
Paste lb.	6,703,602	3,157	6,191,581	3,013
Liquid (including self-polishing)	Imp. gal.	4,719,708	4,594,807	13,786
Furniture:				
Cream .....	..	116	..	101
Oil .....	..	385	..	..
Silver:				
Paste, liquid or cream .....	..	49	..	..
Shoe:				
Paste .....	..	964	..	955
Liquid or cream .....	..	1,194	..	322
Other polishes .....	..	66	..	327
Printers' rollers (see also Section A) .....	..	933	..	868
Rust preventatives .....	..	1,070	..	1,456
Soaps:				
Liquid lb.	7,017,288	2,276	4,596,669	1,055
Soft	92,761	13	323,151	99
Textile	195,639	43	174,222	33
Other	4,831,691	624	6,272,312	1,349
Sweeping powders				
Tar, refined	Imp. gal.	879,210	..	1,081
Textile and leather specialties .....	..	3,994	..	4,307
Wood preservatives .....	..	718	..	1,366
All other products .....	..	78,747	..	93,678
2. Amount received in payment for work done on materials and products owned by others				
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	..	(3,443)	..	(3,392)
Net adjustment for establishments receiving progress payments .....	..	..	..	..
Total adjusted value of shipments and work done .....	..	193,140	..	213,582
Grand totals .....	..	214,099	..	236,501

¹ Confidential, included with "All other products".

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 Inks and Printers' Rollers, 1961-65

Year	Printing inks		Printers' rollers and composition
	pounds	\$'000	
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	1,173
1965	42,097,000	27,054	1,183

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued

B. Writing Inks, 1961-65

Year	Selling value at plant
	\$'000
1961	650
1962	636
1963	600
1964	482
1965	327

C. Boiler Compounds, 1961-65

Year	Selling value at plant			
	For use by railroads	For marine use	For industrial use	Total
	\$'000			
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
1965	1	262	5,519	5,781

D. Charcoal, 1961-65

Year	Quantity
	tons
1961	13,398
1962	17,324
1963	15,098
1964	24,294
1965	20,013

E. Disinfectants and Deodorants, 1961-65

Year	Selling value at plant	
	Disinfectants	Deodorants ²
	\$'000	
1961	1,216	1,613
1962	1,844	1,909
1963	2,448	2,034
1964	2,428	2,395
1965	2,536	2,827

F. Pest Control Products of All Kinds,³ 1961-65

Year	Selling value at plant
	\$'000
1961	12,962
1962	13,969
1963	12,943
1964	12,348
1965	17,364

See footnote at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries - Continued

G. Book Matches, 1961 - 65

Year	Quantity	Selling value at plant
	No.	\$'000
1961	747,034,000	3,023
1962	864,146,000	3,372
1963	943,927,000	3,597
1964	1,124,683,000	4,146
1965	1,260,953,000	4,377

H. Sweeping Compounds, 1961 - 65

Year	Selling value at plant
	\$'000
1961	1,104
1962	1,055
1963	1,095
1964	1,051
1965	1,091

I. Herbicides (Weed Killer), 1961 - 65

Year	Selling value at plant
	\$'000
1961	4,252
1962	6,051
1963	6,205
1964	7,181
1965	6,974

J. Polishes, 1963 - 65

Product	1963	1964	1965
Floor wax, paste	lb. 8,112,000	7,524,000	6,800,493
	\$'000 3,786	3,453	3,235
Floor wax and polish, liquid*	Imp. gal. 5,289,000	5,526,000	5,619,886
	\$'000 15,419	15,998	15,789
Shoe polishes and dressings	" 2,491	2,739	2,263
Furniture polish	" 664	609	"
Stove polishes	" 175	161	151
Brass polishes	\$'000 221	197	262
Silver polishes	" 844	840	977
Auto polishes, including wax	" 136	244	2,811
Polishes, kind not specified	"		
Totals	23,736	24,241	25,487

K. Creosote Oils, Pitch and Refined Tars, 1961 - 65

Year	Creosote and other oils	Pitch	Refined tar, tarvia, etc.
	Imp. gal.	tons	Imp. gal.
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
1964	7,551,000	100,000	1,845,000
1965	8,422,000	87,000	617,000

L. Crude Tar Used in Tar Distilleries, 1961 - 65

Year	Imp. gal.
1961	30,551,000
1962	32,818,000
1963	30,950,000
1964	30,075,000
1965	26,431,000

See footnotes at end of table.

TABLE 14. Shipments of Selected Goods of Own Manufacture - All Industries, 1964 and 1965 - Concluded
M. Adhesives and Cements, 1964 and 1965

Year	1964		1965	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$'000		\$'000
Linoleum cement .....	..	891	..	1,179
Rubber adhesives:				
Neoprene gal.	596,000	2,342	666,000	2,434
Reclaims "	110,000	318	79,000	216
Other (including natural rubber) "	1,367,000	4,613	1,692,000	5,471
Synthetic resin adhesives:				
Polyvinyl acetate lb.	19,651,000	6,038	19,673,000	5,668
Other	6	6	6	6
Glue:				
Bone and hide ⁷ lb.	6,276,000	1,559	6,553,000	1,564
Casein "	1,032,000	245	1,419,000	425
Fish "	..	263	..	410
Flexible lb.	2,660,000	638	3,519,000	812
Vegetable:				
Dry "	4,200,000	620	5,889,000	660
Liquid "	17,114,000	2,085	16,820,000	1,975
Mucilage and paste .....	..	1,866	..	1,906
Dextrines ⁸ lb.	14,850,000	1,425	13,693,000	1,694
Adhesives and cements, other .....	..	3,699	..	3,420

¹ Confidential, included with "For marine use".

² Does not include personal type.

³ 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.

⁴ Includes self-polishing wax.

⁵ Confidential, included with "Polishes, kind not specified".

⁶ 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. 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.

⁸ Listed for first time in 1964. Not previously considered as "Adhesives" for the purpose of this compilation.

TABLE 15. Principal Statistics classified by Industry Sub-group, 1961-65

Year and industry	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	
Manufacturers of printing inks:													
1961	32	630	1,370	2,674	193	8,362	19,038	10,571	x	x	1,222	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
1964	37	691	1,497	3,164	220	10,009	20,959	10,779	x	x	1,242	6,876	12,443
1965	37	676	1,495	3,297	247	11,042	22,918	11,773	x	x	1,242	7,320	14,059
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
1964	328	3,448	7,368	13,940	2,593	101,419	193,140	89,664	x	x	7,155	37,127	106,155
1965	317	3,565	7,732	14,814	2,741	114,514	213,582	98,538	x	x	7,558	40,504	111,441

List of Establishments classified to this Industry, 1965

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

Name	Location
A. Manufacturers of Printing Inks	
Quebec:	
Ault and Wiborg Div., Interchem Canada Ltd.	5520 Chabot, Montreal
Canada Printing Ink Company Limited, The	8490 Jeanne Mance St., Montreal
Columbia Carbon (Canada) Ltd.	7147 Park Ave., Montreal
Comm-Lith Chemicals Ltd.	130 Dupont St., 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'Épée, Montreal
Ontario:	
Ault and Wiborg Div., Interchem Canada Ltd.	82 Peter St., Toronto
Bowers Printing Ink Co. of Canada Ltd.	345 Carlaw Ave., Toronto
Canada Printing Ink Company Limited, The	506 Evans Ave., Toronto
Canadian Fine Color Co. Limited	2 Sheffield St., Toronto
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
Kohl and Madden Printing Ink Co. of Canada Ltd.	24 Ronson Dr., Rexdale
Manton Printing Inks Ltd.	133 Cartwright, Toronto
Markrite Manufacturing Company	120 Church St., Toronto
Parkinson Inks Ltd.	463 Nightingale Ave., London
Rieger Flexo and Gravure Ltd.	84 Martin Ross Rd., Downsview
Rieger Printing Ink Co. Ltd.	41 Clarkson Ave., Toronto
Sinclair and Valentine Co. of Canada Ltd.	240 Madison Ave., Toronto
Tanzer Printing Inks Ltd.	588 Eastern Ave., Toronto
Toronto Star Ltd.	20 Queen's Quay E., Toronto
Manitoba:	
Ault and Wiborg Div., Interchem Canada Ltd.	331 Stanley, Winnipeg
Sinclair and Valentine Company of Canada Limited	430 Berry St., St. James
Alberta:	
Ault and Wiborg Div., Interchem Canada Ltd.	218 - 2nd St. E., Calgary
Canada Printing Ink Company Limited, The	10333 - 112th St., Edmonton
British Columbia:	
Ault and Wiborg Div., Interchem Canada Ltd.	496 Prior, Vancouver
Cal/Ink Chemical Co. of Canada 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.	
Prince Edward Island:	
Hancock Laboratories	Summerside
Nova Scotia:	
Christie Products	Truro
Jet Charcoal	Bridgewater
Marden-Wild of Canada Ltd.	Rockhead Works, Halifax
Nu-Mac Manufacturing Company Limited	Dayspring
Swift Canadian Co. Ltd.	Halifax
New Brunswick:	
Laurentide Chemicals Inc.	Richibucto
Quebec:	
Actol Chemical Ltd.	Delson
Adams Chemical Company Limited	4905 Dagenais St., Montreal
Allaire, A.E. Reg'd	2071 Florian, Montreal
Anachemia Chemicals Ltd.	500 - 2nd Ave., Ville St-Pierre
Anti-Hydro of Canada Ltd.	2070 Favard St., Montreal
Aro-Feu Canada Ltée	Jonquière
Arol Chemical Co. Ltd.	2520 Bates Rd., Montreal
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
Betz Laboratories Ltd.	1000 Sherbrooke St., Lachine
Bilodeau, Claude	St-Fabien-de-Panet

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
B. Other Chemicals Industries, n.e.s. - Continued	
Quebec - Concluded:	
Blachford, H.L., Limited	977 Aqueduct St., Montreal
Canadian Adhesives Ltd.	420 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
Cascade Charcoal Co.	Herouxville
Charcoal Supply and Sales of Quebec Ltd.	Weedon Centre
Chipman Chemicals Limited	Buckingham
Chemical and Technical Services Inc.	9120 St-Laurent, Montreal
Chemor Corporation Ltd.	236 St-Augustin St., Montreal
Clough Chemical Company Ltd.	St-Jean
Clough Industries Ltd.	1375 Cote Verte, Montreal
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
Davies Irwin Limited	121 Bates Rd., Town of Mount Royal
Davison Chemical Co. Ltd.	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 Cie, Ltée	St. Raymond
Dural Products Ltd.	Dorval Station
Dust-Less Sweeping Powder Enrg.	1280 Ste-Elizabeth, Montreal
Dust-No-Dirt Mfg. Co.	6572 Chateaubriand, Montreal
Entrol Limited	Mille Isles
Gelex Limited	1407 Iberville St., Montreal
Grace, W.R. and Co. of Canada Ltd.	255 La Fleur Ave., Ville La Salle
Industrial Adhesives Ltd.	2524 Bois Franc Rd., St-Laurent
Inter-City Petroleum Co.	3670 Gouin Blvd, East, Montreal Nord
Kem-O-Tex Chemicals Ltd.	425 - 21st Ave., Lachine
Kennedy, W. Alan, Limited	112 McGill St., Montreal
Kleen-Flo Corp.	8677 Desmeade Rd., Mount Royal
Laboratoires Cholsy Ltée	Louiseville
La Briquette Degelis Ltée (degels Charcoal Ltd.)	Ste-Rose-du-Dogelé
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.	10, Blvd des Capucins, Quebec
Madelon Degel Enrg.	6296 St-André, Montreal
Magnus Chemicals Ltd.	4040 Masson St., Montreal
Metasol Canada Ltd.	245 Victoria Ave., Westmount
Moran Chemical Co. Ltd.	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 Remembrance Rd., Lachine
Osmose Wood Preserving Co. of Canada Ltd.	1080 Pratt Ave., Outremont, Montreal
Para Products Corp. Ltd.	10581 L'Archevêque, Montréal Nord
Pentagon Chemicals Limited	Greenfield Park
Polycol Ltd.	6645, rue Magloire, St-Leonard
Pope, Allen, Products Reg'd.	385 Concord, Montreal
Printeraft Supply Co. Ltd.	254 Queen St., Montreal
Produits Chimiques Empire Inc.	720 St-Vallier W., Quebec
Produits Durables Enrg.	4219 Hogan, Montreal
Quebec-O-Chimie Inc.	88 - 61eme Ave., Drummondville
Quinn, K.J. & Co. (Canada) Ltd.	Granby
Record Chemical Co. Ltd.	840 Montée de Liesse, Montreal
Richelleu Chemical Co. Ltd.	144 Laurier St., St-Jean
Robert Chemical Co. Ltd.	550 Sebastopol St., Montreal
Robertson, J.S. Ltd.	175 Lagauchetière St. W., Montreal
Royal Ink and Blacking Co.	17 Ontario St. E., Montreal
Sanfax Corp. (Canada) Ltd.	8203 Montreal-Toronto Blvd., Montreal West
Service Adhesives Corp.	10001 St-Vital St., Montreal Nord
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-Vallier East, Quebec
Swift Canadian Co. Ltd.	215 Maguire St., Montreal
Trio Packaging Ltd.	St-Janvier
Union Products Inc.	155 Richer St., Ville St-Pierre
Vac Inc.	Ville St-Michel
Vaillancourt, A.	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.	8020 - 17e Ave., Ville St-Michel
Wunder-Sweep Mfg. Reg'd.	St. Andrews East
Wood, G.H. and Co. Ltd.	Mount Royal
Ontario:	
Accratex Products & Dev. Ltd.	Scarborough
Adhesion Colloids (Can.) Ltd.	Shaver St., Brantford
Adams, J.C., Co. Ltd.	Orangeville
Aerocide Dispensers Limited	13 Bethridge Rd., Rexdale
Aerosol D.D.T. Bug-Blitzer Co.	10 Dell Park Ave., Toronto
Aerosol Packaging Ltd.	8001 Keele St., Maple
Aggressi of Canada Ltd.	2238 Harold Rd., Burlington
Airkem of Canada Ltd.	156 Front St. W., Toronto

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
B. Other Chemical Industries, n.e.s. - Continued	
Ontario - Continued:	
Alchem Limited	Burlington
Anchem Products Inc.	2224 Walker Rd., Windsor
Apco Chemicals Ltd.	10 Industrial St., Leaside
Archer-Daniels-Midland Co. (Canada) Ltd.	200 Fairbank Ave., Toronto
Ardox Limited	Niagara-on-the-Lake
Armstrong-Lang Laboratories Ltd.	24 Curity Ave., Toronto
Atlas Chemical Industries Canada Ltd.	135 Elgin St., Brantford
Bars Leaks Distributors Ltd.	2776 Charles St., Windsor
Beacon Chemicals of Canada Limited	Milton
Bell Chemicals Ltd.	83 Mead Ave., Hamilton
Bellak Brothers Limited	1 Croft St., Toronto
Berlout Company (Canada) Limited, The	Box 84, London
Bird-Archer Co. Limited, The	Cobourg
Blachford, H.L., Limited	40 Titan Rd., Etobicoke
Blake Laboratories Ltd.	1710 Midland Ave., Scarborough
Blue Bird Dust Absorber	452 McArthur Rd., Ottawa
Bobby Calf Finishes and Dyes	Newmarket
Borden Chemical Co. (Canada) Ltd., The	395 Coronation Dr., West Hill
Boyle-Midway (Canada) Ltd.	Evans Ave. Toronto
Bubble Bath Laboratories Ltd.	Dunnville
Budget Products Limited	West Lorne
Busb 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 Chem-Fuel Additive Corp. Ltd.	Richmond Hill
Canadian Helmitin Co. Ltd., The	97 Shorncliffe, Toronto
Canadian Self Spray Dispensers	75 Saultier St., Toronto
Canadian Shaler Products Company Limited	29 Dartnell Ave., Toronto
Capo Polish Limited, The	Burlington
Carter, H.J., Limited	139 Stephenson Ave., Toronto
Charcoal Supply and Sales of Ontario Ltd.	South River
Chevron Chemical (Canada) Ltd.	Oakville
Chipman Chemicals Ltd.	Box 100 Station C., Hamilton
Commercial Oil Co. of Hamilton Ltd., The	420 Jackson St. W., Hamilton
Compagnie Parento Limited	70 Mack Ave., Scarborough
Connecticut Chemical (Canada) Ltd.	Curity and Hollinger Rds., Toronto
Continental Chemical Co.	275 Eilerslie, Ave., Willowdale
Copeland Products	7 Briarfield Dr., Don Mills
Cromac Chemical Co. Limited	203 Bentworth Ave., Toronto
Dearborn Chemical Company Limited	2454-2464 Dundas St. W., Toronto
Delpex Adhesives Ltd.	133 Jefferson Ave., Toronto
Dodge Chemical Co. (Canada) Ltd., The	26 Cumberland St., Toronto
Dominion Essential Oils Co.	Bancroft
Domtar Chemicals Ltd.	Hamilton, Sault Ste. Marie, Toronto
Deodor-x Company of Canada Limited	9 Phoebe St., Toronto
Drew, Chemical Ltd.	283 Station Rd., Ajax
Duhois Chemicals of Canada Ltd.	60 Kenhar Dr., Weston
Dura Chemical Co.	948 Burlington St. E., Hamilton
Dustbane Enterprises Ltd. (Dusthane Div.)	Avenue "K", 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 (Eddy Match Div.)	Pembroke
Elco Lubricant of Canada Ltd.	200 Fairbank Ave., Toronto
Embalmers Supply Co. of Canada Ltd., The	42 Haas Rd., Rexdale
Everett and Barron of Canada Ltd.	914 Dufferin St., Toronto
F.M.C. Machinery and Chemicals Ltd. (Niagara Brand Chemicals Div.)	Burlington
Fairview Chemical Company	56 Newcastle St., Toronto
Flexpac Products Ltd.	819 Farewell Ave., Oshawa
Forsythe Lubricating Associates Ltd.	203 McNabb St. S., Hamilton
Frisco Builders Specialty Ltd.	365 Enford Rd., Richmond Hill
Fuller, H.B. Co. (Canada) Ltd.	215 Midwest Rd., Scarborough
Grace, W.R., and Co. of Canada Ltd.	66 Hymus Rd., Scarborough
Grant Products Ltd.	Don Mills
Halton Chemical Co. Ltd.	Burlington
Harchem Limited	Fort Erie
Hart Chemical Ltd.	120 Victoria Rd. S., Guelph
Hercules Powder Company (Canada) Ltd.	Burlington
Heritage Manufacturing Co. Ltd.	60 Alness St., Downsview
Holcomb, J.L., Mfg. Co. of Canada Ltd.	890 Caledonia Rd., Toronto
Hollingshead, R.M., Co. of Canada Ltd., The	Bowmanville
Howard, A.H., Chemical Co. Ltd.	Orangeville
Huntington Laboratories Ltd.	Bramalea
Industrial Adhesives Ltd.	90 Tyons Drive, Toronto
Industrial Chemicals and Solvents Ltd.	995½ Barton E., Hamilton
Interchem Prestitile Ltd.	Georgetown
International Waxes Ltd.	50 Salome Dr., Agincourt
Interpace Canada Ltd.	Burlington
J.W. Enterprises Reg'd.	Maple
Johnson, S.C., and Son Ltd.	Brantford
Keiner and Co. (Canada) Limited	10 Trent Ave., Toronto
Kem-San Products Ltd.	1064 South Service Rd., Oakville
King Calcium Products Co. Ltd.	Campbellville
Kiwi Polish Co. (Canada) Ltd., The	Frid & Chatham Sts., Hamilton
Lastoplex Chemicals	11 Oakland Ave., Weston
Lecithin Products (Canada) Ltd.	48 Dundas St., Belleville
Le Page's Limited	404 Kipling Ave., Toronto
Lincoln Chemicals Ltd.	St. Catharines
London Laboratories	48 Paddington Ave., London

List of Establishments classified to this Industry, 1965 - Continued

Name	Location
B. Other Chemical Industries, n.e.s. - Continued	
Ontario - Concluded:	
Iorax Chemical Co.	Scarborough
Lubrizol of Canada Ltd.	1800 Thorold Stone Rd., Niagara Falls
M and T Products of Canada Ltd.	670 Strathearn Ave. N., Hamilton
McKibbin, E., Ltd.	127 Raleigh Ave., Toronto
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	19 Vanley Cres., Downsview
Morningstar-Paisley of Canada Ltd.	7 Kenhar Dr., Weston
National Starch and Chemical Co. (Canada) Ltd.	363-379 Wallace Ave., Toronto
New Surpass Petrochemicals Ltd.	36 Upton Rd., Scarborough
Nonsuch Products	2398 Haines Rd., Cooksville
Nopco Chemical (Canada) Ltd.	123 St. George St., London
Norda Limited	2 Plants: Vankleek Hill, 833 King St. W., Toronto
North American Ferites Ltd.	3336 Elmbank Rd., Malton
Nymoc Products Co.	311 Adelaide St. E., Toronto
Parker Rust Proof Company of Canada Ltd.	165 Rexdale Blvd., Rexdale
Penn Chemicals Ltd.	1408, Kingston Rd., Toronto
Pennsalt Chemicals of Canada Ltd.	Oakville
Perma-Flex 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.	302 Cumberland Ave., Hamilton
Poole, J.E. Co. Ltd., The	164 Bentworth Ave., Toronto
Quaker City Chemical Co. of Canada Limited	16 Birmingham St., Hamilton
Radiator Specialty Co. of Canada Ltd.	340 Gerrard St. E., 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 Manufacturing Co.	625 Bartlett Dr., Windsor
Ross, Frank T., and Sons (1962) Ltd.	18 Clivic Rd. Scarborough
Roy Chemicals and Sales	403 Windermere Rd., Windsor
Russell, L.B., Chemicals (Canada) Ltd.	12 Carlaw Ave., Toronto
S.A.C. of Canada Ltd.	204 Evans Ave., Toronto
Scholler Brothers Limited	Welland & Vine Sts., St. Catharines
Sci-Rex of Canada Ltd.	1770 Woodward Dr., Ottawa
Shell Canada Limited (Pesticide Plant)	Simcoe
Shrader, Ralph, (Canada) Ltd.	3418 Mavis Rd., Cooksville
Simoniz Company Ltd.	244 Bartley Drive, Toronto
Sitko Products Co.	360 Antwerp Ave., Sudbury
Sluyter Chemical Corp. Ltd.	50 Wickware Gate, Scarborough
Somar Research Institute Ltd.	67 Frederick St., Toronto
Standard Wax Co.	80 Ossington Ave., Toronto
Stanley Home Products of Canada Ltd.	140 Ann St., London
Stein-Hall Limited	465 Coronation Dr., West Hill
Sterne, G.F., and Sons Ltd.	126 Bruce St., Brantford
Strike-Rite Matches Limited	100 Falcon St., London
Superior Biochemicals of Canada Ltd.	50 Raleigh Ave., Scarborough
Swift Canadian Co. Ltd.	1960 St. Clair Ave. W., Toronto
Taylor Atlas Products Ltd.	Woodbridge
Technical Adhesives Ltd.	Cooksville
Temuss Products Canada Ltd.	Ajax
Tumbler, J.A. Laboratories Ltd., The	2135 Lawrence Ave. E., Scarborough
Unichem Company Ltd.	51 Comstock Rd., Scarborough
Uniform Company Ltd.	122 Manville Rd., Scarborough
Van Camp Products and Sales Ltd.	60 Clarkson, Toronto
Ware Chemical of Canada Ltd.	152 Norseman St., Toronto
Washburn, T.F. Canada Ltd.	Preston
Wilson Laboratories Limited	Dundas
Wolverine Cements Ltd.	200 Grand River Ave., Brantford
Wood, G.H. and Co. Ltd.	Queen Elizabeth Blvd., Toronto
Wynn's Friction Proofing Canada Ltd.	Rexdale
Xzit Chemicals (Eastern Canada) Ltd.	Port Colborne
Manitoba:	
Chipman Chemicals Limited	1040 Coulter Ave., Winnipeg
Continental Chemicals Ltd.	93 Gomez St., Winnipeg
Dustbane Mfg. Div., Dust bane Enterprises Ltd.	730 Madison Ave., Winnipeg
Interprovincial Co-operatives Ltd.	945 Marion St., St. Boniface
Printer's Roller Co.	1045 Notre Dame Ave., Winnipeg
Sherwin Williams Co. of Canada Ltd.	110 Sutherland Ave., Winnipeg
Swift Canadian Co. Ltd.	Archibald St., St. Boniface
Ultra Modern Chemicals	437 Kensington St., Winnipeg
Saskatchewan:	
Chipman Chemicals Limited	Moose Jaw
Fairview Chemical Co. Ltd.	1355 St. John St., Regina
Niagara Brand Chemicals, Div. of F.M.C. Machinery and Chemicals Ltd.	1326 Atkinson St., Regina
Skyline Products Ltd.	1600 Toronto St., Regina
Alberta:	
Allied Chemical Services Ltd.	5507-1st St. S.E., Calgary
Canada West Products Co.	718 Second Ave. W., Calgary
Eternacrete Products Ltd.	14810-123rd Ave., Edmonton

List of Establishments classified to this Industry, 1965 - Concluded

Name	Location
R. Other Chemical Industries, n.e.s. - Concluded	
Alberta - Concluded:	
Glazol Manufacturing Ltd.	7730 Macleod Trail, Calgary
Helmer Chemical Co. Ltd.	222-35th Ave. N.E., Calgary
T-Line Chemicals Ltd.	828-24 Ave. S.E., Calgary
Wendar Adhesives Corp. Ltd.	8045 Coronet Rd., Edmonton
British Columbia:	
Adherite Products Ltd.	987 E. Cordova St., Vancouver
Aero-Pak Sales Ltd.	230 Brunette St., New Westminster
Ansell Chemical Co. Ltd.	Vernon
Bardahl Lubricants (Western) Ltd.	2060 W-10th Ave., Vancouver
Bri-San Chemicals Ltd.	1121 S.W. Marine Dr., Vancouver
Chemco Manufacturing Co. Ltd.	1196 E. Pender, Vancouver
Coloron Industries International Ltd.	843 West Road, Richmond
Concrete Control Products Ltd.	1477 S.W. Marine Drive, Vancouver
Dustbane Mfg. Div., Dustbane Enterprises Ltd.	845 East Hastings, Vancouver
Eastwest Chemicals Ltd.	60 E-4th Ave., Vancouver
Fleld, A.H.T., and Co. Ltd.	915 Cotton Dr., Vancouver
General Dye and Chemical Co. Ltd.	1603 Franklin St., Vancouver
Goddard Chemicals Ltd.	Sidney
Grip-Tex Products Ltd.	1111 Venables St., Vancouver
Industrial Formulators of Canada Ltd.	303 E-6th Ave., Vancouver
Later Chemicals Ltd.	300-330 Lysander Lane, Richmond
Micro-Metals Compounds Ltd.	5836-176th St., Cloverdale
Noxall Products Ltd.	1820 W. 3rd. Ave., Vancouver
Oliver Chemical, Co. Ltd., The	Penticton
Peerless Products (1954) Ltd.	625 Clarke Drive, Vancouver
Rayonier B.C. Limited (Silvachemical Div.)	Foot of Heather St., Vancouver
Renton Distributors Ltd.	1815 Franklin St., Vancouver
Sawyer's Supplies	15282 Fraser Hwy., North Surrey
Simpson, Harold, Ltd.	604 East 5th Ave., Vancouver
Sterne, G.F., and Sons (Western) Ltd.	7755 Venture St., Burnaby
Swift Canadian Co. Ltd. (Adhesive Products)	548 Brunette St., New Westminster
Tinit Manufacturing Co. Ltd.	215 Belleville St., Victoria
Universal Enterprises Ltd.	236 East Esplanade, North Vancouver
Western Chemical Industries Ltd.	Lapointe Pier, Vancouver
Western Match Co. Ltd.	8040 Enterprise St., Burnaby
Wood, G.H. and Co. Ltd.	1835 East Hastings St., Vancouver

CONCEPTS AND DEFINITIONS

Census of Manufactures

General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 55 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 176 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

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

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

The results of the Census are presented in some 135 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

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

Establishment

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

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

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

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

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

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

Head Offices and Auxiliary Units

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

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

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

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the firm, when all establishments are in the same industry (3 or 4 digit). When establishments of

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

Employees

(a) Production and related workers – Manufacturing activities

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. For those establishments reporting on the "long" form, production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. In the case of those establishments reporting on the "short" form, respondents are requested to report average annual figures. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). Data on man-hours are not collected from establishments reporting on the short form. Man-hours for these establishments are estimated on the basis of ratios derived from the 1958 census. During this census all establishments reported on the long form. In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

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

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

(c) Administrative and office employees

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

(d) Sales and distribution workers

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

(e) Total Employees

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

Working Owners or Partners

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

Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages,

bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

Fuel and Electricity

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

Materials and Supplies

(a) Manufacturing activities

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

(b) Non-manufacturing activities

1. Purchases for re-sale as such

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

2. Other materials and supplies used

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

purchased machinery and equipment. Also included is the cost of office supplies not chargeable to fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

Shipments

(a) General

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

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

(b) Shipments of goods of own manufacture

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

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

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity

are collected by means of the Commodity questionnaire referred to earlier. Such shipments together with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

(c) Shipments of goods not of own manufacture

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

(d) Other revenue

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

Inventories

(a) Manufacturing activities

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

receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

(b) Non-manufacturing activities

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

Value Added

(a) By manufacturing activities

Figures are compiled by deducting the cost of manufacturing materials, supplies, etc. and fuel and electricity consumed from the (value of shipments of goods of own manufacture adjusted for changes in the value of inventories of finished goods and goods in process).

(b) By non-manufacturing activities

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods pur-

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

(c) By Total activities

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net output or net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".

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