

46-201
C16
D55
C.7

Historical File Copy



CANADA



CHEMICALS AND ALLIED PRODUCTS

1955

General Review

Published by Authority of
The Honourable Gordon Churchill, Minister of Trade and Commerce

Canada

DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division
Metal and Chemical Products Section

6512-586-125

Price 25 cents

Vol. 2—Part XVI—A-1

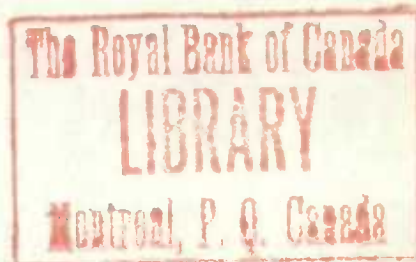
100-34
10

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** - The Primary Industries, including mining, forestry and fisheries; **Volume II** - Manufacturing; **Volume III** - Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I - General Review of the Manufacturing Industries, \$1.50
- II - The Manufacturing Industries of Canada, (7 sections, as follows:)
 - Section A. Summary for Canada, 25¢
 - Section B. Atlantic Provinces, 50¢
 - Section C. Quebec, 25¢
 - Section D. Ontario, 25¢
 - Section E. Prairie Provinces, 40¢
 - Section F. British Columbia, 25¢
 - Section G. The Manufacturing Industries of Canada, Regional Distribution, 75¢
- III - Foods and Beverages
- IV - Tobacco and Tobacco Products
- V - Rubber Products
- VI - Leather Products
- VII - Textile Mills
- VIII - Knitting Mills
- IX - Clothing
 - X - Wood and Paper Products
- XI - Printing Trades
- XII - Iron and Steel Products
- XIII - Transportation Equipment
- XIV - Non-ferrous Metal Products
- XV - Electrical Apparatus and Supplies
- XVI - Non-metallic Mineral Products
- XVII - Products of Petroleum and Coal
- XVIII - Chemicals and Allied Products
- XIX - Miscellaneous Manufactures



C16
D
1955

661.071

The present report belongs in Part XVI, Non-metallic Mineral Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A - General Review, 25¢
- B - The Artificial Abrasives Industry, 25¢
- C - The Asbestos Products Industry, 25¢
- P - The Cement Manufacturing Industry (also in Mining), 25¢
- D - The Concrete Products Industry, 25¢
- E - The Glass and Glass Products Industry, 25¢
- K - The Gypsum Industry (also in Mining), 25¢
- Q - The Clay and Clay Products Industry (also in Mining), 25¢
- R - The Lime Industry (also in Mining), 25¢
- M - The Salt Industry (also in Mining), 25¢
- T - The Stone Industry (also in Mining), 25¢
- G - The Miscellaneous Non-metallic Mineral Products Industry, 25¢

(9 APR 1958)

CHEMICALS AND ALLIED PRODUCTS

1955

General Review

Production of chemicals and allied products totalled \$1,044.1 millions in 1955 compared with \$935.7 millions in 1954, an increase of about 11.6 per cent. The net value of production, or the value added by manufacturing, also advanced, the \$528.9 millions in 1955 being 11 per cent higher than the \$476.1 millions in 1954.

The gross values of production by industries were as follows, in millions of dollars: Acids, alkalies and salts, \$172.3; fertilizers, \$92.5; medicinals and pharmaceuticals, \$108.1; paints and varnishes, \$117.2; primary plastics, \$75.1; soaps, washing compounds and cleaning compounds, \$100.1; toilet preparations, \$36.8; vegetable oils, \$50.3; inks, \$14.7; adhesives, \$10.9; polishes and dressings, \$19.6; compressed gases, \$16.5; coal tar distillation, \$11.9; and miscellaneous chemical products, \$218.0.

In the entire group there were 1,126 plants in 1955 with approximately 52,000 employees and an aggregate payroll of \$185 millions. The 553 works in Ontario accounted for 55 per cent of the production and 48 per cent of the employees and the 371 plants in Quebec accounted for 32 per cent of the total output and 41 per cent of the workers. The other provinces with 202 plants accounted for about 13 per cent of the total Canadian production. Materials used in manufacturing processes cost \$480.1 millions and fuel and electricity cost \$33.1 millions.

The exports of chemicals and allied products showed an increase in 1955, the value of \$210.0 being about 30 per cent higher than the \$161.3 millions in 1954. Exports to the United States amounted to \$111.7 millions or 53 per cent of the total shipped to all foreign countries.

Imports at \$260.5 millions increased about 18 per cent over the \$220.6 reported in 1954. About 85 per cent of the imports came from the United States while the United Kingdom accounted for about 10 per cent.

Note: Figures for value added by manufacture prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1953, value added figures for the latter year were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, and 1955 information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figures.

CHEMICALS AND ALLIED PRODUCTS

TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1954 and 1955

Industry	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture ¹	Selling value of products at works
	No.						
1954							
Acids, alkalis and salts	43	8,408	33,425,864	13,358,379	49,400,551	79,376,289	142,001,601
Fertilizers	38	3,049	11,603,480	2,992,340	41,275,216	39,654,741	78,149,303
Medicinals and pharmaceuticals	216	7,380	22,648,147	864,899	31,257,738	66,414,045	97,395,558
Paints and varnishes	124	5,719	19,624,624	831,292	55,060,771	51,899,254	107,727,373
Primary plastics	22	2,808	11,190,653	1,685,824	30,973,562	26,892,324	58,881,800
Soaps, washing compounds and cleaning preparations	141	3,756	13,561,863	1,250,280	41,125,268	50,835,903	92,526,204
Toilet preparations	94	2,048	5,147,118	119,948	12,197,035	19,877,952	31,943,143
Vegetable oils	12	668	2,462,494	628,717	45,087,723	8,205,689	53,120,709
Inks	33	964	3,166,802	114,890	5,144,564	8,245,627	13,396,490
Adhesives	28	621	1,987,142	367,922	6,213,522	5,946,176	12,772,801
Polishes and dressings	50	850	2,587,366	102,966	7,884,495	9,802,348	17,718,078
Compressed gases	46	1,305	4,355,140	513,145	2,622,602	12,746,776	15,873,288
Coal tar distillation	11	544	2,101,870	655,821	7,417,777	4,752,227	12,878,275
Miscellaneous chemical products	258	13,483	43,449,377	8,726,824	101,390,267	91,475,977	201,340,257
Total	1,116	51,603	177,311,960	32,213,247	437,051,091	476,125,328	835,724,880
1955							
Acids, alkalis and salts	45	8,597	35,547,851	15,033,501	61,686,514	95,023,999	172,255,750
Fertilizers	39	2,935	11,542,380	2,641,870	41,396,928	45,895,045	92,498,839
Medicinals and pharmaceuticals	210	7,629	23,937,050	871,026	33,819,677	72,703,379	108,121,734
Paints and varnishes	122	5,994	20,768,461	874,952	59,785,089	58,245,997	117,184,189
Primary plastics	23	3,036	12,332,507	1,490,621	40,264,982	33,760,502	75,052,166
Soaps, washing compounds and cleaning preparations	141	3,827	14,047,369	1,263,680	44,918,815	54,284,965	100,105,140
Toilet preparations	98	2,166	5,890,056	143,007	13,842,997	23,029,087	36,849,128
Vegetable oils	12	682	2,503,689	693,961	42,018,137	7,017,207	50,322,215
Inks	35	996	3,416,557	126,112	5,903,527	8,739,452	14,748,162
Adhesives	29	576	1,934,597	369,578	5,030,858	5,368,263	10,908,938
Polishes and dressings	48	805	2,563,953	99,573	8,746,585	10,412,904	19,605,544
Compressed gases	52	1,387	4,759,759	591,850	2,942,918	12,985,965	16,501,924
Coal tar distillation	11	528	2,080,557	611,810	7,010,908	4,802,463	11,892,812
Miscellaneous chemical products	261	12,698	43,943,157	8,254,029	112,736,255	96,659,281	218,032,459
Total	1,126	51,856	185,267,943	33,085,570	480,104,190	528,928,509	1,044,079,000

1. See footnote to text.

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1954 and 1955

Province	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture	Selling value of products at works
	No.						
1954							
Newfoundland	6	78	214,722	16,708	616,327	651,695	1,289,270
Prince Edward Island and Nova Scotia	18	317	891,500	126,157	3,973,354	2,717,235	6,943,521
New Brunswick	7	147	429,175	61,506	2,810,179	1,080,094	4,014,430
Quebec	367	21,647	71,384,181	9,088,446	144,825,598	157,777,274	311,816,125
Ontario	550	24,725	86,759,306	19,284,510	239,579,301	257,894,377	513,632,938
Manitoba	41	698	1,890,054	160,336	6,629,932	5,205,052	11,934,183
Saskatchewan	9	199	697,766	39,521	2,217,228	1,531,183	3,257,153
Alberta	31	1,427	6,017,895	1,899,650	10,088,705	15,475,127	25,923,020
British Columbia	87	2,365	9,027,361	1,536,413	28,310,467	33,793,291	56,914,240
Canada	1,116	51,603	177,311,960	32,213,247	437,051,091	476,125,328	835,724,880
1955							
Newfoundland	5	78	224,468	19,099	742,303	689,105	1,429,900
Prince Edward Island and Nova Scotia	18	319	889,787	137,637	4,128,756	2,850,898	7,008,361
New Brunswick	7	131	441,001	64,706	3,116,055	1,138,912	4,211,083
Quebec	371	21,236	73,975,901	9,075,066	159,643,404	166,549,304	334,497,949
Ontario	553	25,137	90,764,804	20,353,293	266,606,480	291,452,789	578,133,840
Manitoba	38	743	1,969,907	160,907	6,748,407	5,067,371	12,124,065
Saskatchewan	10	200	743,057	22,857	2,255,904	541,533	3,170,604
Alberta	31	1,513	6,717,633	2,131,612	11,822,005	21,822,372	36,865,383
British Columbia and Northwest Territories	93	2,499	9,541,385	1,120,393	25,040,876	38,816,225	66,637,815
Canada	1,126	51,856	185,267,943	33,085,570	480,104,190	528,928,509	1,044,079,000

TABLE 3. Inventories¹ in the Chemical and Allied Products Group, by Industries, 1955

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Acids, alkalies and salts	14,469,017	1,218,836	8,838,929	24,526,782
Fertilizers	6,258,197	6,845,180	11,204,511	24,307,888
Medicinals and pharmaceuticals	9,969,972	5,435,870	10,233,467	25,639,309
Paints and varnishes	8,851,854	1,425,789	13,135,358	23,413,001
Primary plastics	4,897,139	925,323	4,414,624	10,237,086
Soaps, washing compounds and cleaning preparations	5,704,406	1,189,180	7,674,628	14,568,214
Toilet preparations	3,788,929	241,185	2,678,104	6,708,218
Vegetable oils	10,750,266	55,523	1,932,853	12,738,642
Inks	947,123	147,194	689,117	1,783,434
Adhesives	877,390	161,454	1,165,062	2,203,906
Polishes and dressings	1,235,007	121,780	1,326,045	2,682,832
Compressed gases	497,918	811	100,504	599,233
Coal tar distillation	760,622	143,334	796,306	1,700,262
Miscellaneous chemical products	49,331,282	18,241,100	10,203,509	77,775,891
Total	118,339,122	36,152,559	74,393,017	228,884,698
Closing:				
Acids, alkalies and salts	14,858,902	1,534,017	8,327,193	24,720,112
Fertilizers	8,860,288	7,377,898	8,639,515	24,877,701
Medicinals and pharmaceuticals	10,451,449	6,862,353	9,505,815	26,819,617
Paints and varnishes	9,728,507	1,605,748	14,207,526	25,541,781
Primary plastics	5,217,778	821,327	4,878,563	10,917,668
Soaps, washing compounds and cleaning preparations	6,357,012	1,370,000	8,056,948	15,783,960
Toilet preparations	4,428,519	252,918	2,844,067	7,525,504
Vegetable oils	10,813,006	218,717	1,339,943	12,371,666
Inks	1,091,907	216,283	710,046	2,018,236
Adhesives	866,365	84,601	1,124,823	2,075,789
Polishes and dressings	1,445,252	112,675	979,563	2,537,490
Compressed gases	560,244	48,525	119,313	728,082
Coal tar distillation	991,281	130,213	1,328,675	2,450,169
Miscellaneous chemical products	53,576,607	12,854,244	9,820,615	76,251,466
Total	129,247,117	33,489,519	71,882,605	234,619,241

1. See footnote to table 4.

TABLE 4. Inventories¹ in the Chemical and Allied Products Group, by Provinces, 1955

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
Opening:				
Newfoundland	220,069	2,564	79,493	302,126
Prince Edward Island and Nova Scotia	663,232	337,472	567,407	1,568,111
New Brunswick	439,304	694,335	280,189	1,413,828
Quebec	58,604,133	21,498,772	22,348,869	102,451,774
Ontario	50,299,203	12,816,769	37,092,808	100,208,780
Manitoba	1,351,244	90,368	1,449,406	2,891,018
Saskatchewan	123,582	—	564,117	687,699
Alberta	1,921,139	313,338	2,727,576	4,962,053
British Columbia and North West Territories	4,717,216	398,941	9,283,152	14,399,309
Canada	118,339,122	36,152,559	74,393,017	228,884,698
Closing:				
Newfoundland	265,625	1,300	100,100	367,025
Prince Edward Island and Nova Scotia	688,282	429,421	676,337	1,794,040
New Brunswick	455,673	723,550	388,779	1,568,002
Quebec	63,095,797	16,475,728	23,218,694	102,790,219
Ontario	53,470,064	14,858,059	36,721,849	105,049,972
Manitoba	1,250,473	288,516	1,302,026	2,841,015
Saskatchewan	646,622	8,660	213,807	869,089
Alberta	2,556,872	292,082	1,638,182	4,487,136
British Columbia and North West Territories	6,817,709	412,203	7,622,831	14,852,743
Canada	129,247,117	33,489,519	71,882,605	234,619,241

1. The opening inventory for the current year may not necessarily agree with the closing inventory published the previous year because of changes in the composition of the industry such as; the addition of new establishments, the disappearance of old ones, or the transfer of establishments to other industries for statistical purposes. The figure for value added by manufacture for the previous year does not need to be altered because of such changes in the composition of the industry.

TABLE 5. Principal Statistics by Size of Establishment, for the Chemicals and Allied Products Group, 1955

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Gross value of factory shipments
	No.	No.	\$	\$	\$	\$
(a) Factory shipments						
Under \$10,000.....	155	229	304,633	24,758	287,473	759,392
\$10,000 to \$24,999.....	108	308	622,300	46,587	652,234	1,809,520
\$25,000 to \$49,999.....	114	541	1,282,329	103,234	1,695,142	4,165,885
\$50,000 to \$99,999.....	119	842	2,190,412	158,115	3,767,470	8,747,397
\$100,000 to \$199,999.....	136	1,406	4,200,372	344,850	8,790,588	19,568,577
\$200,000 to \$499,999.....	170	3,550	11,172,876	805,334	24,170,602	55,060,586
\$500,000 to \$999,999.....	131	5,045	16,611,478	1,400,672	41,882,566	92,809,416
\$1,000,000 to \$4,999,999.....	152	14,654	50,225,501	5,563,013	150,894,042	314,875,047
\$5,000,000 and over.....	41	23,324	88,212,817	24,639,007	247,964,073	546,283,180
Head offices.....	-	1,957	10,445,225	-	-	-
Totals.....	1,126	51,856	185,267,943	33,085,570	480,104,190	1,044,079,000
(b) Employees						
Under 5 employees.....	362	800	1,817,581	147,753	4,870,713	10,761,420
5 to 14 employees.....	322	2,746	8,247,093	693,711	25,925,144	52,880,965
15 to 49 employees.....	246	6,745	22,267,722	2,068,278	77,429,970	151,231,233
50 to 99 employees.....	105	7,252	23,897,750	2,982,020	77,858,142	153,845,210
100 to 199 employees.....	43	6,099	21,229,041	2,351,164	71,026,300	144,533,221
200 to 499 employees.....	31	9,481	36,205,864	6,558,355	81,371,575	212,151,653
500 to 999 employees.....	11	7,831	29,009,044	8,382,567	58,164,778	146,033,413
1,000 to 1,499 employees.....	4	8,945	32,148,623	9,901,722	83,457,568	172,641,885
1,500 and over.....	2					
Head offices.....	-	1,957	10,445,225	-	-	-
Totals.....	1,126	51,856	185,267,943	33,085,570	480,104,190	1,044,079,000

TABLE 6. New Investment in Durable Physical Assets and Repair and Maintenance, in the Chemicals and Allied Products Group, 1946-1955

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
Millions of dollars							
1946.....	11.6	8.0	19.6	2.9	10.3	13.2	32.8
1947.....	14.4	19.3	33.7	4.0	12.5	16.5	50.2
1948.....	15.0	26.9	41.9	4.3	15.8	20.1	62.0
1949.....	11.9	25.9	37.8	3.9	17.3	21.2	59.0
1950.....	7.3	19.0	26.3	4.3	19.1	23.4	49.7
1951.....	19.2	38.5	57.7	4.0	24.8	28.8	86.5
1952.....	81.2	79.8	141.0	4.5	26.6	31.1	172.1
1953.....	32.0	90.3	122.3	4.3	26.5	30.8	153.1
1954.....	15.2	24.8	40.0	6.2	31.4	37.6	77.6
1955.....	21.6	34.3	55.9	4.8	29.7	34.5	90.4

TABLE 7. Employees and Their Earnings in the Chemicals and Allied Products Group, by Industries, 1954 and 1955

Industry	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1954								
Acids, alkalis and salts	2,034	568	5,764	42	8,408	11,696,998	21,728,866	33,425,864
Fertilizers	710	146	2,179	14	3,049	3,788,129	7,815,351	11,603,480
Medicinals and pharmaceuticals	1,512	1,474	2,257	2,137	7,380	11,643,992	11,004,155	22,648,147
Paints and varnishes	1,504	807	3,086	322	5,719	9,125,176	10,499,448	19,624,624
Primary plastics	769	297	1,656	86	2,608	4,838,966	6,351,687	11,190,653
Soaps, washing compounds and cleaning preparations	1,013	554	1,792	397	3,756	6,265,135	7,296,748	13,561,883
Toilet preparations	326	428	457	837	2,048	2,654,897	2,492,221	5,147,118
Vegetable oils	187	69	430	2	668	1,024,526	1,437,968	2,462,494
Inks	210	105	597	52	964	1,338,492	1,828,310	3,166,802
Adhesives	145	89	357	30	621	849,081	1,138,061	1,987,142
Polishes and dressings	206	183	295	166	850	1,485,255	1,102,111	2,587,366
Compressed gases	341	237	726	1	1,305	1,899,043	2,456,097	4,355,140
Coal tar distillation	132	35	370	7	544	805,866	1,296,004	2,101,870
Miscellaneous chemical products	2,755	1,163	7,637	1,928	13,483	15,996,177	27,453,200	43,449,377
Total	11,824	6,155	27,603	6,021	51,603	73,411,733	103,900,227	177,311,960
1955								
Acids, alkalis and salts	2,112	586	5,847	52	8,597	12,801,557	22,746,294	35,547,851
Fertilizers	637	155	2,135	8	2,935	3,642,456	7,899,924	11,542,380
Medicinals and pharmaceuticals	1,603	1,498	2,319	2,209	7,629	12,410,327	11,526,723	23,937,050
Paints and varnishes	1,630	911	3,118	335	5,994	10,038,668	10,729,793	20,768,461
Primary plastics	841	303	1,804	88	3,036	5,204,969	7,127,538	12,332,507
Soaps, washing compounds and cleaning preparations	1,107	530	1,801	389	3,827	6,506,265	7,541,104	14,047,369
Toilet preparations	349	443	480	894	2,166	2,969,756	2,920,300	5,890,056
Vegetable oils	189	67	443	3	682	1,066,019	1,437,670	2,503,689
Inks	198	106	841	51	996	1,437,379	1,979,178	3,416,557
Adhesives	139	82	328	27	576	863,958	1,070,639	1,934,597
Polishes and dressings	176	174	266	189	805	1,484,121	1,079,832	2,563,953
Compressed gases	429	259	699	—	1,387	2,130,862	2,628,897	4,759,759
Coal tar distillation	136	30	356	6	528	807,533	1,273,024	2,080,557
Miscellaneous chemical products	2,823	1,156	7,125	1,594	12,698	17,078,074	26,665,083	43,943,157
Total	12,349	6,300	27,362	5,845	51,856	78,441,944	106,825,999	185,267,943

TABLE 8. Employees and Their Earnings in the Chemicals and Allied Products Group, by Provinces, 1954 and 1955

Province	Number of employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
1954								
Newfoundland	12	5	48	13	78	67,896	146,826	214,722
Prince Edward Island and Nova Scotia	76	28	199	14	317	319,427	572,073	891,500
New Brunswick	19	8	120	—	147	95,363	333,812	429,175
Quebec	4,795	2,423	11,349	3,080	21,647	30,342,749	41,041,432	71,384,181
Ontario	5,725	3,277	12,998	2,725	24,725	36,096,353	50,662,953	66,759,306
Manitoba	155	95	372	76	698	785,723	1,104,331	1,890,054
Saskatchewan	83	45	67	4	199	499,581	196,185	695,766
Alberta	387	133	886	21	1,427	2,163,269	3,854,626	6,017,895
British Columbia and Northwest Territories	572	141	1,564	88	2,365	3,041,372	5,985,989	9,027,361
Canada	11,824	6,155	27,603	6,021	51,603	73,411,733	103,900,227	177,311,960
1955								
Newfoundland	12	5	47	14	78	70,317	154,151	224,468
Prince Edward Island and Nova Scotia	83	31	189	16	319	334,817	554,970	889,787
New Brunswick	19	7	105	—	131	102,486	338,515	441,001
Quebec	4,991	2,598	10,877	2,770	21,236	33,168,323	40,807,578	73,975,901
Ontario	5,936	3,248	13,114	2,839	25,137	37,642,303	53,122,501	90,764,804
Manitoba	173	96	389	65	743	846,732	1,123,175	1,969,907
Saskatchewan	86	45	63	4	200	524,859	216,198	743,057
Alberta	444	116	929	24	1,513	2,435,493	4,282,140	6,717,633
British Columbia and Northwest Territories	603	154	1,649	93	2,499	3,318,614	6,224,771	9,541,385
Canada	12,349	6,300	27,362	5,845	51,856	78,441,944	106,825,999	185,267,943

TABLE 9. Production and Related Workers (wage-earners) in the Chemicals and Allied Products Group, by Industries and by Months, 1955

Month	Acids, alkalis and salts	Fertilizers	Medicinals and pharmaceuticals	Paints and varnishes	Primary plastics	Soaps and cleaning preparations	Toilet preparations			
	Number									
January	5,688	2,206	4,414	3,199	1,780	2,114	1,196			
February	5,800	2,184	4,414	3,263	1,794	2,120	1,125			
March	5,795	2,190	4,430	3,346	1,832	2,116	1,242			
April	5,696	2,343	4,456	3,446	1,856	2,077	1,297			
May	5,878	2,515	4,499	3,525	1,857	2,095	1,321			
June	6,001	2,073	4,522	3,607	1,908	2,208	1,378			
July	6,051	1,963	4,502	3,620	1,958	2,249	1,350			
August	6,037	2,073	4,669	3,553	1,955	2,274	1,478			
September	5,994	2,100	4,613	3,538	1,954	2,242	1,487			
October	6,002	2,035	4,591	3,488	1,912	2,332	1,570			
November	5,964	2,010	4,643	3,468	1,966	2,277	1,555			
December	5,886	2,018	4,584	3,394	1,954	2,176	1,354			
Average	5,899	2,143	4,528	3,453	1,892	2,190	1,374			
	Vegetable oils	Inks	Adhesives	Polishes and dressings	Compressed gases	Coal tar distillation	Miscellaneous	Total		
	Number									
January	440	673	334	436	677	352	9,268	32,777		
February	463	681	338	464	878	356	9,224	33,006		
March	411	680	350	456	679	358	9,057	32,942		
April	421	685	353	459	685	357	9,061	33,192		
May	412	686	358	450	699	368	8,959	33,622		
June	410	689	359	470	714	376	8,675	33,390		
July	412	693	359	473	751	377	8,572	33,330		
August	416	702	361	450	747	369	8,613	33,697		
September	452	700	361	455	707	361	8,430	33,394		
October	536	701	365	459	693	362	8,400	33,446		
November	516	710	365	446	692	359	8,253	33,224		
December	462	704	365	432	689	356	8,158	32,532		
Average	446	692	355	455	699	362	8,719	33,207		

TABLE 10. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Provinces and by Months, 1955

Month	Newfoundland	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories	Canada
	Number									
January	58	169	102	13,911	15,420	458	54	895	1,690	32,777
February	58	184	101	14,038	15,444	453	56	896	1,776	33,006
March	58	188	88	13,871	15,552	447	63	888	1,787	32,942
April	58	251	153	13,851	15,783	453	70	883	1,690	33,192
May	63	269	206	13,929	15,937	465	62	945	1,746	33,622
June	62	208	92	13,506	16,105	493	102	991	1,631	33,390
July	66	189	75	13,575	16,042	511	72	1,036	1,764	33,330
August	65	190	80	13,682	16,336	496	64	1,031	1,753	33,697
September	60	187	90	13,554	16,206	482	68	977	1,770	33,394
October	60	200	90	13,480	16,370	486	68	991	1,701	33,446
November	60	209	91	13,320	16,310	488	67	965	1,714	33,224
December	60	203	99	13,073	15,904	472	67	956	1,698	32,532
Average	61	205	105	13,647	15,953	474	67	953	1,742	33,207

TABLE 11 Materials Used in the Industries in the Chemicals and Allied Products Group, 1954 and 1955

Item	1954		1955	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acetic anhydride	lb. 2,349,221	256,852	2,682,799	293,281
Acetone	" 3,997,944	428,165	4,309,849	419,192
Acetanilid	" 7,932	4,179	6,851	3,455
Acetylene	cu. ft. 161,770,987	1,168,814	199,597,730	1,369,730
Acid:				
Acetic	lb. 16,928,006	1,966,681	23,498,929	2,134,684
Acetylsalicylic	" 597,402	342,046	674,888	373,935
Arsenic (As ₂ O ₅)	" 1,397,596	73,093	910,444	40,590
Benzoic	" 240,638	57,279	257,506	61,578
Boric or boracic	" 116,536	13,046	94,374	11,024
Citric	" 436,362	133,808	416,852	118,166
Cresylic (see also cresol)	" 138,533	20,019	119,251	16,462
Fatty, n.e.s.	" 2,017,882	147,522	2,320,189	229,918
Formic	" 104,000	20,316	154,000	29,229
Gallic	" 731	890	781	1,321
Hydrochloric (muriatic)	" 4,196,690	122,794	6,122,254	171,237
Naphthenic	" 2,796,965	232,514	2,708,586	226,850
Nitric	" 8,463,604	318,540	9,515,282	356,690
Oleic	" 930,239	134,194	1,303,789	212,620
Oxalic	" 380	93	120	28
Phosphoric	" 760,975	69,783	1,098,494	80,001
Stearic	" 1,573,689	223,185	1,417,950	211,540
Sulphuric	" 1,347,602,165	6,273,972	1,293,451,423	5,572,791
Tannic	" 2,854	3,858	6,495	5,789
Tartaric	" 460,076	137,973	615,485	167,115
Alcohol:				
Amyl (fusel oil)	gal. 2,916	4,867	337	659
Butyl	lb. 2,790,876	444,198	4,494,731	616,076
Ethyl	gal. 1,203,477	1,549,509	1,138,331	1,510,010
Isopropyl	lb. 3,139,042	309,966	2,905,119	254,937
Methyl (wood) refined	gal. 2,194,747	835,942	2,804,639	996,941
Aluminum rod, strip, etc.	lb. 55,827	27,357	49,018	23,376
Aluminum hydrate	" 31,894,522	797,363	42,148,444	1,053,711
Aluminum sulphate	" 937,534	24,211	873,940	23,595
Ammonia, anhydrous	" 202,525,258	5,755,828	214,334,283	5,756,729
Ammonium chloride	" 254,826	26,528	210,465	20,567
Ammonium nitrate	" 16,052,625	636,761	17,904,724	663,308
Ammonium phosphate	tons 5,541	553,688	5,008	487,647
Ammonium sulphate	" 40,303	1,932,751	39,074	1,796,777
Amyl acetate	lb. 544,162	97,202	503,857	86,554
Arsenic, white (As ₂ O ₃)	" 13,389	840	11,163	703
Asphalt	gal. 4,437,875	584,227	764,065	145,810
Barium chloride	lb. 517,216	33,116	515,478	34,545
Barium nitrate	" 154,387	17,228	159,747	17,979
Barytes	" 3,952,044	144,405	2,116,983	70,569
Bentonite (filtral, Pembina, etc.)	tons 586	47,857	1,022	61,828
Benzol ¹	lb. 86,260,963	4,749,584	73,321,807	3,863,074
Bismuth metal	" 19,094	45,433	41,400	93,196
Bismuth salts	" 14,168	50,663	17,617	57,617
Black, lamp, bone and other, n.e.s.	" 299,187	61,993	214,338	41,799
Blanc fixe	" 499,637	16,645	899,498	35,576
Blood, dried	tons 42	4,124	76	7,298
Blue, ultramarine	lb. 218,685	64,290	205,146	80,704
Bone meal and bone flour	tons 37	2,903	66	5,164
Bones	" 14,001	439,214	12,273	360,665
Borax	lb. 2,080,665	90,305	2,273,618	98,629
Brass rod, strip, etc.	" 1,589,248	558,360	7,864,649	3,094,414
Butyl acetate	lb. 3,935,922	574,340	3,821,028	581,090
Butyl cellusolve	" 152,268	35,220	226,000	53,412
Caffeine	" 26,599	84,576	31,340	97,643
Calcium arsenate	" 493,729	44,518	301,929	25,547
Calcium carbide	" 24,886,010	1,278,410	26,832,670	1,361,770
Calcium carbonate (ground chalk whiting)	" 26,459,180	464,663	30,650,726	522,972
Calcium chloride	" 3,104,351	72,384	3,167,353	69,585
Calcium sulphate	" 2,069,830	28,625	1,969,781	27,887
Campbor	" 51,880	31,141	55,682	37,546

1. Includes usage for production of synthetic rubber.

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Carbon bisulphide	lb.	5,144,509	318,117	5,208,629	313,578
Carbon black	"	2,176,984	315,008	2,009,561	302,166
Carbon dioxide gas (unpurified)	-	-	35,825	-	148,512
Carbon tetrachloride	lb.	240,174	31,787	336,093	38,530
Casein	"	1,229,358	254,060	1,511,750	343,185
Chalk, precipitated	"	690,831	36,311	468,374	23,713
Charcoal	"	6,261,329	181,977	7,102,883	196,905
Chloride of lime	"	1,217,680	83,505	1,576,448	69,530
Chlorine, liquid	"	54,361,871	1,421,174	16,671,850	616,778
Coal:					
Anthracite (except for fuel)	tons	50,109	712,352	38,237	495,678
Bituminous (except for fuel)	"	-	-	-	-
Cobalt acetate	lb.	1,764	2,045	3,482	4,039
Cobalt sulphate	"	2,605	2,866	2,900	3,280
Coke:					
Petroleum (except for fuel)	tons	-	-	3,181	55,209
For making carbon dioxide	-	-	-	-	-
Other (except for fuel)	tons	267,348	4,799,941	324,987	5,694,957
Colours, chrome (see also zinc chromate)	lb.	2,382,936	929,420	2,430,937	953,785
Copper strip, sheet, etc.	"	2,456,838	727,224	1,482,453	442,120
Copper sulphate	"	551,976	129,771	493,760	123,438
Copra or dried cocconut kernels	"	46,526,860	3,913,065	14,352,000	1,074,712
Cotton linters	"	347,574	38,984	405,636	42,934
Creosote	"	387,907	25,296	435,403	27,934
Cresol (see also cresylic acid)	"	457,015	66,609	797,562	102,577
D.D.T.	"	1,189,232	259,063	1,160,572	261,760
Dextrine	"	8,798,558	895,259	9,129,647	827,161
Diatomaceous earth	tons	9,384	448,533	9,166	429,140
Dibutyl phthalate	lb.	487,552	152,345	377,354	121,170
Dinitrotoluene	"	881,418	182,137	456,613	89,053
Driers:					
Linoleate	lb.	12,251	4,422	18,410	6,063
Naphthenate	"	2,243,001	858,187	2,176,437	620,427
Resinate	"	41,983	8,651	27,475	5,755
Other	"	278,350	134,022	546,060	188,742
Dyes and colours, other	"	314,534	180,749	343,664	251,915
Electrodes	-	-	685,217	-	687,100
Ether, sulphuric	lb.	58,962	11,762	45,450	8,479
Ethyl acetate	"	5,361,667	689,654	3,971,237	509,234
Ethylene glycol	lb.	24,480,151	3,094,091	26,934,093	3,862,793
Feldspar	tons	933	16,946	2,297	37,210
Ferric chloride	lb.	171,210	8,014	36,814	2,714
Flaxseed	bu.	3,602,126	10,528,574	3,088,429	9,683,089
Flour:					
Potato	lb.	403,589	27,525	306,661	22,740
Soya bean	"	274,559	19,297	170	13
Tapioca	"	606,833	76,912	629,970	61,202
Wheat	"	5,058,345	197,002	5,193,543	202,517
Other	"	249,692	17,213	87,870	8,375
Fluorspar	tons	63,751	1,985,027	68,592	1,978,468
Foos, olive and cotton seed	lb.	6,675,566	377,634	7,297,852	441,862
Formaldehyde	"	34,993,034	1,307,549	45,848,186	1,666,828
Fuller's earth	tons	289	15,392	370	19,980
Glucose	lb.	1,463,658	110,348	1,770,935	137,842
Glue	"	3,389,847	768,977	3,054,496	727,288
Glycerine:					
Crude	lb.	4,089,975	853,441	6,050,875	1,247,283
Refined	"	9,415,465	3,064,332	10,263,208	3,296,247
Graphite	"	665,808	130,980	822,655	164,750
Grease	"	3,703,728	269,424	3,904,622	317,576
Gun powder	-	734,468	354,290	1,019,069	614,680
Herbs, roots and vegetable drugs	-	-	556,213	-	528,766
Hides and hide trimmings	tons	17,599	285,771	14,857	240,056
Hydrogen chloride, anhydrous	lb.	9,172,949	409,641	13,220,544	607,609

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Material	1954		1955	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Iodine, crude	lb. 103,863	124,471	94,269	131,294
Iron, scrap	tons 6,337	159,048	7,324	216,955
Iron oxide pigments	lb. 4,380,473	389,588	4,595,932	407,762
Javel concentrate of sodium hypochlorite for dilution	—	94,896	—	106,751
Kaolin or china-clay	lb. 7,565,878	135,031	3,527,251	66,780
Lanolin	" 207,133	88,484	226,774	95,696
Lead arsenate	" 50,544	8,870	56,115	9,862
Lead, basic carbonate, white, dry	" 1,378,463	251,961	1,268,904	242,140
Lead, basic carbonate, white, in oil	" 359,687	75,946	286,700	59,023
Lead, basic sulphate, white	" 487,024	78,669	288,680	50,120
Lead, pig	" 10,410,028	1,391,396	9,366,134	1,304,391
Lead, red	" 1,217,737	228,533	996,622	201,206
Lime:				
Hydrated	tons 45,767	373,548	21,155	209,459
Quick	" 16,349	256,720	17,747	289,574
Land plaster	" 1,169	26,755	70	1,726
Limestone	tons 985,246	1,812,259	1,057,632	1,932,519
Litharge	lb. 2,823,793	472,539	3,219,309	568,519
Lithopone	" 5,414,688	494,865	3,785,941	334,869
Lumber	M bd. ft. 163	10,898	176	11,670
Magnesium oxide	tons 1,536	71,276	1,497	62,614
Magnesium sulphate (Epsom salts)	lb. 1,018,324	34,699	1,069,834	36,525
Malt extract	" 377,179	52,848	360,509	49,529
Meal, ivory nut and other	" 2,720,935	73,053	3,100,813	77,120
Menthol	" 21,114	97,319	22,360	117,541
Mercury metal	" 180,539	419,974	157,822	452,284
Mercuric oxide	" 3,292	3,820	—	—
Methyl chloride	" 3,597,297	437,439	2,809,175	343,594
Mica, ground	" 1,802,747	85,564	1,721,152	94,953
Nitrocellulose or nitro cotton	" 4,265,204	1,371,980	3,195,782	1,032,201
Nitrogen solutions	—	2,236,738	—	2,521,849
Ochres, siennas and umbers	lb. 423,830	52,691	441,155	55,745
Oil:				
Castor	gal. 379,983	518,282	413,591	537,125
Castor, dehydrated	" 101,633	229,055	114,844	241,699
China wood (tung)	lb. 3,938,964	824,090	4,038,283	986,285
Cocoanut	" 15,993,996	2,517,200	13,931,034	1,810,642
Cod	" 1,112,592	104,266	1,046,342	107,917
Cod liver	" 426,809	96,091	472,404	108,021
Corn	" 34	13	—	—
Essential and perfume	—	2,693,501	—	2,847,327
Fish	lb. 1,761,284	169,032	1,455,600	140,775
Linseed:				
Raw	gal. 1,565,134	1,870,493	1,697,560	2,237,575
Boiled and other	" 2,048,408	2,821,292	2,176,029	3,304,917
Polymerol	lb. 766,875	106,069	645,830	113,512
Varnol	" 449,652	89,750	513,116	107,521
Mineral, other	gal. 943,989	262,280	935,830	261,218
Mineral, white	lb. 2,179,846	221,489	2,547,411	250,258
Neat's foot	" 361,133	44,481	475,844	70,068
Oiticica	" 73,123	15,854	95,570	15,977
Olive	" 61,348	17,562	58,530	16,001
Palm	" 151,340	16,838	1,979,781	237,152
Petroleum ink	" 1,184,158	287,904	1,300,666	320,264
Pine	" 350,950	51,981	512,790	82,196
Silicone	" 19,157	80,929	17,897	69,624
Soya bean	gal. 1,046,729	1,626,125	1,455,287	1,954,981
Sperm	lb. 365,687	45,829	319,996	44,951
Tall	" 2,145,757	128,107	2,715,572	161,756
Other	—	1,075,228	—	1,097,620
Paradichlorobenzene	lb. 1,853,223	234,302	2,306,487	308,876
Pentasol	" 163,990	26,473	91,630	14,873
Petrolatum	" 1,097,800	104,836	1,297,456	122,627
Petroleum distillates	gal. 7,614,455	2,674,773	8,533,844	3,000,104
Penicillin	—	546,812	—	619,391
Phenacetin	lb. 145,477	156,758	150,042	160,222
Phenobarbital and other barbiturates	" 26,952	143,438	29,147	156,205
Phenol	" 14,792,487	2,227,029	20,284,153	3,038,339
Phosphorus, amorphous	" 46,808	20,552	68,886	29,458

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Phosphorus sesquisulphide.....	lb.	68,360	27,117	29,240	10,268
Phosphate rock	tons	606,883	8,354,843	562,845	7,824,636
Phthalic anhydride	lb.	11,777,727	2,086,368	13,996,761	2,677,067
Pigments, all colours and fillers, n.e.s.	"	-	4,414,830	-	4,568,476
Pitch, coal tar.....	lb.	1,538,670	47,908	2,885,353	100,775
Plasticizers, n.e.s.	"	2,407,093	860,399	3,126,708	1,092,451
Polyvinyl chloride.....	"	2,984,262	1,089,642	3,841,315	1,341,063
Potassium bichromate.....	"	233,674	32,502	264,787	38,004
Potassium chlorate	lb.	1,052,059	119,671	476,604	52,293
Potassium chloride (muriate of potash)	tons	111,775	3,970,780	120,909	4,299,379
Potassium hydroxide.....	lb.	1,719,959	137,058	2,011,177	161,109
Potassium iodide	"	56,084	81,577	45,323	70,719
Potassium magnesium sulphate.....	"	3,936,000	60,012	3,838,000	57,841
Potassium nitrate	"	549,076	39,645	678,634	48,741
Potassium perchlorate	"	98,778	16,712	109,897	18,562
Potassium sodium tartrate	"	19,466	5,007	17,524	4,752
Potassium sulphate.....	"	25,973,868	708,119	24,283,183	589,928
Powders, metallic (bronze, aluminum, etc.)	"	1,121,638	496,760	1,127,319	523,506
Pyrethrum extract and powder	-	-	46,169	-	14,565
Pyrites	tons	74,465	659,581	123,619	999,695
Quartz and quartzite	"	30,568	139,893	30,787	147,525
Quebracho extract.....	lb.	108,663	14,838	76,552	10,520
Rapeseed	"	12,881,660	439,374	18,706,850	739,409
Resins and gums, natural.....	"	5,816,227	721,992	6,108,552	784,348
Resins, synthetic, other.....	"	40,585,622	8,979,321	43,257,077	9,124,704
Resins, phenolic	"	2,830,807	848,562	3,197,880	916,348
Rosin.....	-	-	1,266,270	-	810,486
Rubber:					
Chlorinated.....	lb.	291,913	148,749	200,594	116,472
Latex.....	"	9,562,438	1,638,930	9,452,717	1,543,676
Sawdust.....	"	1,656,399	18,104	1,257,497	13,256
Shellac:					
Orange.....	"	277,542	110,006	824,873	522,392
Bleached.....	"	1,477,066	936,807	770,014	442,452
Other.....	"	691,790	363,911	548,693	324,356
Silica sand	tons	73,085	639,382	69,371	518,232
Silver bullion	troy oz.	257,510	214,904	212,942	186,582
Sodium azide	lb.	7,600	9,181	9,301	11,601
Sodium benzoate	"	12,337	4,639	15,986	6,572
Sodium bicarbonate	"	2,040,010	67,879	2,031,639	70,530
Sodium bichromate.....	lb.	908,582	115,796	2,370,836	280,771
Sodium bromide	"	46,788	13,212	63,496	17,404
Sodium carbonate (soda ash)	"	102,888,570	2,261,041	108,360,057	2,326,694
Sodium carboxymethylcellulose.....	"	797,689	172,927	646,985	176,481
Sodium chlorate	"	2,548,314	251,308	3,440,574	297,788
Sodium chloride (brine).....	"	883,666,874	643,359	1,093,261,400	998,415
Sodium chloride (common salt)	"	434,491,460	2,391,606	481,414,543	2,566,212
Sodium fluoride	"	382,756	43,737	347,479	39,107
Sodium hydroxide (caustic soda).....	"	93,442,449	3,197,293	101,591,350	3,454,366
Sodium metasilicate	"	3,489,789	110,625	2,710,561	136,645
Sodium nitrate (chile saltpetre).....	"	32,045,864	909,085	35,044,766	1,005,252
Sodium peroxide.....	"	49,156	9,948	59,031	11,863
Sodium phosphate (di)	"	1,850,465	160,657	1,851,811	160,893
Sodium phosphate (tetra)	"	315,306	31,459	105,000	11,164
Sodium phosphate (tri)	"	7,134,131	401,942	7,660,867	446,861
Sodium salicylate	"	11,917	7,333	12,428	7,463
Sodium silicate (water glass)	"	26,813,519	398,319	24,852,098	370,663
Sodium sulphate	"	2,561,432	57,836	3,183,955	80,378
Sodium sulphide	"	145,833	7,881	151,377	7,099
Solvents, n.e.s.	gal.	2,542,498	1,002,279	3,534,533	2,369,145

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Concluded

Name	1954		1955	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Soya beans..... lb.	577,576,140	28,909,238	670,163,830	28,617,320
Starch:				
Corn..... "	2,320,239	176,933	2,068,808	164,999
Other..... "	739,732	62,368	737,544	63,633
Strontium carbonate..... "	1,978	1,027	1,845	915
Strontium nitrate..... "	564,423	67,836	692,847	83,072
Strontium oxalate..... "	275	190	220	155
Strychnine..... "	752	9,585	689	8,350
Sugar..... "	4,363,861	341,652	4,751,524	368,146
Sulpha drugs..... "	—	422,414	—	534,510
Sulphur (elemental)..... tons	87,122	3,255,307	88,594	3,355,227
Sulphur dioxide..... "	—	412,809	—	744,660
Sunflower seed..... lb.	5,456,986	224,759	12,735,010	520,803
Superphosphate:				
18%..... tons	30,255	628,700	29,148	633,006
20%..... "	285,869	7,192,723	284,031	6,921,746
38-48%..... "	15,814	944,561	33,236	1,983,500
Ammoniated, 3-18-0..... "	240	12,833	549	20,185
Talc..... lb.	35,739,359	607,154	28,788,862	559,180
Tallow, grease and other soap stock..... "	94,019,027	5,807,170	93,156,809	8,515,225
Tankage..... tons	169	9,121	279	12,718
Tar:				
Crude, coal..... gal.	37,421,955	5,326,318	38,171,929	5,511,020
Water gas, crude..... "	1,496,931	161,042	1,954,165	254,430
Tetrayl..... lb.	21,400	19,481	14,700	13,378
Titanium pigments, white..... "	23,238,704	5,548,443	23,566,779	5,856,644
Titanium oxide, extended..... "	26,309,370	2,528,698	27,871,290	2,752,536
Toluol..... "	15,786,797	826,015	15,379,635	797,411
Trichlorethylene..... "	18,561	1,690	87,034	12,014
Trinitrotoluol (T.N.T.)..... "	551,846	107,610	714,609	135,960
Turpentine..... gal.	346,390	285,136	310,382	257,355
2,4-D..... lb.	724,847	381,499	905,547	504,349
Urea crystals..... "	5,589,381	335,960	7,144,418	417,716
Varnishes..... gal.	672,180	1,489,280	749,489	1,358,878
Vitamins (A, B, C and D)..... "	—	1,333,965	—	1,290,406
Wax:				
Beeswax..... lb.	308,509	187,009	371,786	243,258
Candelilla..... "	59,891	46,288	57,992	39,909
Carnauba..... "	1,457,892	1,408,506	1,634,251	1,277,156
Ouricury..... "	53,463	48,838	74,395	65,687
Paraffin, including slack wax..... "	37,996,533	1,664,481	42,277,303	1,950,866
Synthetic..... "	320,407	111,753	168,244	69,568
Other..... "	2,661,913	538,466	3,173,364	674,605
Wood:				
Blocks and splints..... "	—	954,204	—	790,689
Flour..... lb.	2,290,628	49,984	2,765,060	66,642
Hardwood for distillation..... cords	26,090	296,875	17,994	240,871
Pulp..... lb.	42,283,950	4,171,229	43,370,297	4,334,055
Xylol..... "	8,361,660	460,905	8,184,873	443,806
Yarns..... "	836,049	394,073	764,745	338,990
Zinc chromate..... "	586,037	168,087	571,271	166,036
Zinc dross..... "	1,227,467	96,135	2,092,093	167,288
Zinc oxide:				
Pure..... "	5,461,522	748,159	5,742,987	777,713
Leaded..... "	1,357,647	203,264	1,189,065	173,239
Zinc spelter..... "	14,683,916	1,429,111	15,556,160	1,646,046
Zinc stearate..... "	22,039	10,798	22,584	10,327
Zinc sulphate..... "	128,864	7,021	81,117	4,285
Containers and packing material..... "	—	58,218,533	—	63,162,860
All other materials..... "	—	135,479,556	—	165,146,151
Total..... "	—	437,851,891	—	480,104,190

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1954 and 1955

Note. This is simply a list of the principal products made for sale by concerns in the Chemicals and Allied Products group of industries with corresponding output figures where it is possible to publish them. It is not intended to be a complete list of chemicals made in Canada as numerous chemicals are made in other industries; similarly, the production figures may not represent totals for Canada as there may have been a production in other industries.

Item	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
Acetaldehyde		\$		\$
Acetic anhydride
Acetone
Acetylene black
Acetylene in cylinders or delivered by pipeline	cu. ft. 150,026,906	5,060,711	159,005,717	5,372,647
Acid:				
Acetic, glacial, 99%
Cresylic
Crotonic
Fatty, other	lb. 10,558,170	1,176,358	6,321,439	870,977
Hydrochloric (muriatic):				
Commercial
C.P.
Hydrofluosilicic
Monochloro acetic
Nitric:				
Commercial
C.P.
Oleic
Phosphoric
Stearic
Sulphuric:				
Commercial, 100% (for sale)	lb. 1,646,673,639	9,719,703	1,699,156,099	10,082,671
C.P.
Aluminum chloride
Aluminum fluoride
Aluminum stearate
Aluminum sulphate
Ammonia:				
Anhydrous
Aqua
Ammonia powder	lb. 1,367,184	124,659	1,581,268	138,666
Ammonium chloride
Ammonium hydroxide:				
Commercial
C.P.
Ammonium nitrate:				
Regular
Fertilizer compound
Ammonium phosphate (fertilizer)
Ammonium sulphate (fertilizer)
Ammonium sulphate (milled, screened and bagged only)	tons 945	57,536	639	40,807
Anesthetics, other	—	153,766	—	151,951
Aniline oil	—	.	—	.
Anti-freeze preparations	Imp. gal. 1,258,905	2,706,206	2,003,487	3,600,657
Automobile chemicals (brake fluid, tar remover, etc.)	—	1,928,095	—	2,359,020
Biological preparations and vaccines	—	4,820,692	—	4,423,808
Boiler compounds	—	2,712,909	—	3,117,378
Bone meal:				
Raw	lb. 3,730,000	126,300	2,668,113	119,121
Steamed	" 288,000	9,190	4,378,000	148,141
Butane
Butyl acetate
Butyl alcohol
Butyraldehyde
Caffeine, anhydrous
Calcium acid phosphate
Calcium arsenate
Calcium carbide
Calcium chloride
Calcium cyanamide
Calcium cyanide
Calcium naphthenate
Calcium stearate
Carbon bisulphide

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Carbon dioxide (in cylinders and solid).....		*		*
Carboxymethylcellulose		*		*
Cellulose film		*		*
Cellulose sponges		*		*
Cement:				
Linoleum..... gal.	610,586	535,534	997,057	602,243
Rubber..... "	125,461	304,160	158,880	398,208
Other..... "	—	281,829	—	205,443
Charcoal..... tons	11,820	696,080	7,478	375,884
Chloride of lime..... lb.	465,894	69,112	505,478	71,978
Chlorine liquid or gas..... "	197,542,048	6,301,097	199,093,015	6,249,498
Chloroform		*		*
Cleaners:				
Toilet bowl..... lb.	2,655,553	256,586	2,983,918	283,102
Drain pipe..... "	502,475	92,128	1,290,491	205,646
Hand..... "	3,996,189	609,018	4,481,192	635,430
Glass..... "	—	217,185	—	247,886
Cleaning and scouring powder and paste..... lb.	37,332,545	4,687,170	34,594,687	5,081,482
Cleaning preparations, other..... "	—	3,458,651	—	3,709,684
Cobalt naphthenate		*		*
Coke, pitch.....		*		*
Colours:				
Butter, cheese, etc.		*		*
Dry..... "	—	2,434,474	—	2,882,440
In oils and japans..... gal.	60,650	429,222	48,835	361,696
Copper naphthenate.....		*		*
Croton aldehyde.....		*		*
Cresol.....		*		*
Cryolite.....		*		*
D.D.T. products..... "	—	1,223,419	—	1,200,661
Dentifrices, liquid, powder and paste		7,125,899		8,023,643
Detergents, synthetic..... lb.	123,132,249	32,420,527	138,156,180	36,573,027
Dextrines.....		*		*
Dibutyl phthalate.....		*		*
Dichloroethyl ether.....		*		*
Dicyandiamide.....		*		*
Diocetyl phthalate.....		*		*
Disinfectants and deodorants (except for personal use)..... "	—	1,626,931	—	1,608,711
Dressings and finishes, leather, except polish..... "	—	1,347,757	—	1,517,739
Dyes:				
Leather..... "	—	23,317	—	24,203
Embalming fluid..... "	—	259,917	—	201,106
Enamels, ready-mixed, oil and synthetic type..... gal.	6,445,837	28,838,490	8,068,325	35,151,665
Ethyl acetate.....		*		*
Ethylene oxide.....		*		*
Ethylene dichloride.....		*		*
Explosives and ammunition.....		*		*
Ferric chloride.....		*		*
Ferrophosphorus.....		*		*
Fertilizers, mixed..... tons	663,761	31,803,378	680,938	32,773,767
Flavouring extracts..... "	—	455,096	—	477,207
Flour bleaching compound.....		*		*
Fluorspar, flotation.....		*		*
Glue:				
Bone and hide..... lb.	6,954,985	1,857,627	8,847,746	2,173,614
Casein..... "	803,064	218,397	392,976	112,763
Fish..... "	1,093,100	297,397	1,076,500	295,980
Flexible..... "	2,104,512	535,397	2,383,193	583,759
Soya bean..... "	389,250	63,026	—	—
Synthetic resin..... "	28,913,225	3,796,978	31,367,909	4,060,717
Vegetable, dry..... "	2,234,343	258,665	2,433,260	306,184
Vegetable, liquid..... "	17,522,596	1,928,818	18,638,962	2,147,512
Other..... "	283,925	64,930	488,838	123,288
Glycerine:				
Crude..... "	2,066,608	481,981	1,409,092	322,977
Refined..... "	10,242,583	3,443,570	11,260,069	3,652,250

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
Glycols:		\$		\$
Ethylene.....		.		.
Diethylene.....		.		.
Triethylene.....		.		.
Guanidine nitrate.....		.		.
Hydrogen chloride, anhydrous.....		.		.
Hydrogen peroxide, liquid.....		.		.
Inks:				
Newspaper.....	lb. 14,912,487	1,533,196	15,641,953	1,576,795
Letterpress.....	" 5,191,993	5,296,600	7,121,935	6,702,434
Lithographing.....	" 1,595,538	2,084,343	2,172,744	3,052,513
Stamping.....	" 103,500	118,650	106,000	121,300
Other printing.....	" 5,050,832	2,616,001	3,385,708	1,329,973
Writing:				
Liquid.....	—	370,236	—	348,005
Powder and pellets.....	—	5,380	—	40,230
Insecticides, other:				
Agricultural dusts and sprays, not specified elsewhere.....	—	1,914,623	—	2,176,453
Fly spray.....	—	187,684	—	406,785
Gopher poison.....	—	8,068	—	2,159
Moth repellent.....	—	684,616	—	1,142,929
Rat and mouse poison.....	—	244,088	—	273,023
Other household.....	—	1,762,449	—	1,629,760
Livestock spray and powder.....	—	374,572	—	375,417
Iron oxide pigments, synthetic.....		.		.
Iron naphthenate.....		.		.
Isobutylene.....		.		.
Javel water.....	—	6,580,823	—	8,384,549
Lacquers, cellulose:				
Clear.....	gal. 1,604,731	4,100,011	1,670,232	4,367,183
Pigmented.....	" 674,552	2,858,969	984,098	3,785,232
Lead acetate.....		.		.
Lead arsenate.....		.		.
Lead naphthenate.....		.		.
Lead oxide:				
Red.....		.		.
Litharge.....		.		.
Lead, white:				
Dry.....		.		.
Ground in oil.....		.		.
Lecithin.....		.		.
Lighter fluid.....	—	223,824	—	269,826
Lime-sulphur solution.....	gal. 412,935	118,972	398,395	109,752
Magnesium stearate.....		.		.
Manganese naphthenate.....		.		.
Matches:				
In books.....	No. of books 483,690,308	1,837,654	457,183,600	1,715,036
Other.....	—	2,929,461	—	2,570,038
Medicinals and pharmaceuticals, other.....	—	63,192,514	—	72,598,689
Methyl hydrate:				
Refined.....	—	.	—	—
Crude.....	—	—	—	—
Muriate of potash (fertilizer):				
Milled, screened and bagged only.....	tons 1,746	94,742	3,224	181,109
Naphthalene.....		.		.
Nickel salts.....		.		.
Nitrous oxide.....		.		.
Nitrobenzol.....		.		.
Oil, sulphonated:				
Castor.....	lb. 745,246	161,919	706,011	129,449
Cocoonut.....	" 214,840	35,910	201,770	28,864
Cod.....	" 314,622	44,720	1,136,983	91,307
Neat's foot.....	" 246,760	45,219	328,713	60,275
Other blends.....	" 3,316,127	510,148	2,557,327	274,077
Oils:				
Castor, dehydrated.....		.		.
Cocoonut, crude.....		.		.
Core.....		.		.
Creosote.....	gal. 10,959,458	2,978,245	10,240,525	2,804,106
Lard.....		.		.
Linseed:				
Boiled.....	gal. 506,813	594,437	424,288	585,394
Processed.....	" 3,074,465	3,718,760	2,831,218	3,491,036
Raw (sold as such).....	" 3,943,143	4,145,070	3,164,444	3,306,206
Neat's foot, cold-pressed.....		.		.
Soya bean, crude.....	tons 49,077	14,432,912	51,151	14,455,610

TABLE 12 Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
Oils - concluded:		\$		\$
Soya bean, processed..... tons	1.640	488,451	1.204	358,263
Stand, blown and enamel..... gal.	42,257	43,525	51,590	54,218
Sunflower, crude.....	-	-	-	-
Other.....	-	1,126,889	-	1,376,352
Oilcake and oilcake meal:				
Cocanut..... tons	61,079	4,657,205	44,875	3,741,366
Linseed.....	234,616	19,406,619	279,069	20,131,457
Soya bean.....	-	-	-	-
Sunflower.....	-	-	-	-
Oxygen in cylinders or delivered by pipeline..... cu. ft.	747,316,892	6,603,981	797,802,832	6,823,950
Paint:				
Paste paints (not including water-paste paints)..... lb.	2,626,727	712,902	2,437,806	595,499
Water-thinned paints:				
Resin emulsion paints, paste and semi-paste form:				
Interior..... Imp. gal.	223,949	736,435	127,096	441,249
Exterior..... "	28,895	92,318	11,445	34,979
Cold water paints:				
Interior, casein and protein bound:				
Dry and semi-paste form..... Imp. gal.	35,724	79,380	20,597	43,616
Dry powder form..... lb.	1,435,968	198,456	990,805	108,215
Glue bound..... "	302,399	26,204	227,843	20,878
Exterior:				
Casein and protein bound..... "	21,601	2,754	280,109	39,435
Lime or cement bound..... "	1,821,551	241,670	1,834,518	291,384
Texture-type water paints..... "	1,385,023	117,785	1,144,158	101,065
Calcimines:				
Hot water..... "	420,279	40,063	797,211	105,742
Cold water..... "	541,217	69,594	188,490	19,284
Ready-mixed paints..... gal.	10,912,168	40,307,130	11,741,066	42,304,840
Paint and varnish remover..... "	136,532	367,789	128,093	348,958
Paraldehyde.....	-	-	-	-
Parathion.....	-	-	-	-
Paste:				
Dry powder.....	-	291,966	-	232,612
Liquid, including mucilage.....	-	407,635	-	262,860
Penicillin.....	-	-	-	-
Penicillin preparations.....	-	2,366,945	-	2,251,097
Pentacol acetate.....	-	-	-	-
Perchloroethylene.....	-	-	-	-
Phenol.....	-	-	-	-
Phenothiazine.....	-	-	-	-
Phosphorus:				
Amorphous.....	-	-	-	-
Yellow.....	-	-	-	-
Phenacetin.....	-	-	-	-
Phosphorous sesquisulphide.....	-	-	-	-
Phthalic anhydride.....	-	-	-	-
Patching material:				
For walls..... lb.	4,863,924	457,403	6,615,021	615,675
For floors..... "	295,670	55,874	166,958	25,803
Pitch, coal tar..... tons	135,912	4,756,895	118,649	4,679,193
Polish:				
Automobile (including wax).....	-	332,952	-	496,521
Brass.....	-	85,577	-	80,760
Furniture.....	-	1,071,795	-	1,188,333
Shoe and shoe dressing.....	-	1,177,320	-	1,120,399
Silver.....	-	161,440	-	161,787
Stove.....	-	53,930	-	55,101
Other.....	-	273,400	-	410,545
Polyethylene film.....	-	-	-	-
Polyvinyl alcohol.....	-	-	-	-
Potassium chlorate.....	-	-	-	-
Putty..... lb.	10,343,913	768,739	12,218,139	858,586
Railway signal bombs and signal boxes.....	-	438,949	-	530,338
Rennet extract.....	-	-	-	-
Resins, synthetic:				
Alkyd (for sale).....	-	3,722,169	-	5,478,582
Casein.....	-	-	-	-
Cellulose acetate.....	-	-	-	-
Phenol-formaldehyde.....	-	-	-	-
Polystyrene.....	-	-	-	-
Urea-formaldehyde.....	-	-	-	-
Vinyl acetate.....	-	-	-	-
Vinyl chloride.....	-	-	-	-
Rollers, printers'.....	-	676,912	-	669,260
Rust preventives.....	-	800,853	-	673,722

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1954 and 1955 - Continued

Item	1954		1955	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Rubber plasticizers and accelerators.....	—	•	—	•
Rubber, synthetic..... lb.	195,819,062	45,508,824	229,735,117	54,278,468
Sex hormones.....	—	2,098,008	—	2,475,971
Size.....	—	1,281,347	—	1,390,720
Soap:				
Castile:				
Bolled..... lb.	339,680	78,843	363,871	86,867
Cold-pressed..... "	458,724	108,522	530,356	135,019
Chips and flakes:				
Household packages..... "	8,574,821	2,356,053	7,478,515	1,601,670
Bulk..... "	10,210,459	1,183,475	13,297,367	1,739,126
Laundry, bar:				
Household:				
White..... lb.	5,669,728	1,016,469	2,720,623	347,143
Yellow..... "	13,050,426	1,993,533	15,854,515	2,728,957
Liquid..... "	12,628,531	1,466,644	12,924,094	1,725,562
Polishing and scouring..... "	85,631	8,525	375,707	36,891
Powder:				
Household packages..... lb.	53,141,181	10,626,584	43,429,156	9,143,252
Bulk..... "	9,881,348	1,305,954	10,292,907	1,387,078
Shaving cream:				
Lather..... lb.	1,156,553	1,704,785	1,058,163	1,573,406
Brushless..... "	363,792	363,935	293,564	318,992
Other..... "	271,548	317,797	270,735	327,919
Soft, paste and jelly..... "	3,972,853	446,924	3,881,887	410,665
Textile and mill..... "	4,146,076	507,654	1,787,960	209,565
Toilet, bar..... "	38,801,566	12,184,124	40,678,718	12,110,024
Other, hard..... "	575,578	59,779	538,975	63,771
Other..... "	2,318,165	249,217	2,802,746	342,117
Sodium acid pyrophosphate.....		•		•
Sodium arsenate.....		•		•
Sodium arsenite.....		•		•
Sodium azide.....		•		•
Sodium benzoate.....		•		•
Sodium carbonate:				
Soda ash.....		•		•
Sai soda..... lb.	3,529,033	122,320	2,818,605	94,800
Sodium chlorate.....		•		•
Sodium cyanide.....		•		•
Sodium fluoride.....		•		•
Sodium hydrosulphide.....		•		•
Sodium hydroxide (caustic soda) (for sale)..... lb.	294,250,410	8,340,213	311,919,526	9,081,006
Sodium hypochlorite.....		•		•
Sodium (di) phosphate.....		•		•
Sodium (mono) phosphate.....		•		•
Sodium (tetra) phosphate, anhydrous.....		•		•
Sodium (tri) phosphate.....		•		•
Sodium metabisulphite.....		•		•
Sodium silicate.....		•		•
Sodium stearate.....		•		•
Sodium sulphate (saltcake).....		•		•
Sodium sulphamethazine.....		•		•
Sodium sulphite, anhydrous.....		•		•
Sodium thiosulphite.....		•		•
Sodium tripolyphosphate.....		•		•
Soldering flux.....		•		•
Stains (oil spirit, varnish, etc.)..... gal.	352,970	893,814	346,891	930,629
Starches, blended.....		•		•
Stearine.....		•		•
Streptomycin.....		•		•
Streptomycin preparations.....	—	103,784	—	150,727
Sulphur dioxide, liquid.....		•		•
Styrene.....		•		•
Superphosphate fertilizer:				
Actually made.....		•		•
Milled, screened and bagged, only..... tons	13,233	461,534	13,584	498,972
Sweeping compounds.....	—	685,308	—	797,657
2-ethylhexanol.....		•		•
Tankage..... tons	3,137	211,211	403	2,014
Tanners' bate.....		•		•

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products group, 1954 and 1955 - Concluded

Item	1954		1955	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Tar, refined.....gal.	3,789,771	732,543	4,380,369	897,497
Textile and leather finishes.....	-	3,341,147	-	3,546,025
Thinners, for lacquers, paints and enamels.....gal.	2,277,131	3,142,929	2,500,377	3,366,551
Toilet preparations (except dentifrices).....	-	31,345,125	-	36,205,082
Trichlorethylene, crude.....	-	.	-	.
Turpentine.....	-	.	-	.
Toluene.....	-	.	-	.
Vanillin.....	-	.	-	.
Varnishes (Japans, shellac, etc.).....gal.	3,432,478	8,092,385	3,188,257	8,128,931
Veterinary medicines.....	-	1,684,794	-	2,056,769
Vinyl acetate.....	-	.	-	.
Vitamin preparations.....	-	12,354,717	-	13,421,261
Washing blue.....	-	.	-	.
Washing compounds, other.....	-	506,912	-	1,086,911
Wax, floor:				
Paste.....lb.	8,040,887	3,047,489	8,730,584	3,094,465
Liquid.....gal.	779,951	1,503,004	899,575	1,634,743
Self-polishing....."	2,575,442	6,726,679	2,816,787	7,727,797
Wax, sealing.....	-	.	-	.
Wax, paraffin, refined.....	-	.	-	.
Weed killer.....	-	1,674,889	-	1,820,635
Welding compounds.....	-	.	-	.
Zinc chloride (50% solution).....	-	.	-	.
Zinc naphthenate.....	-	.	-	.
Zinc oxide.....	-	.	-	.
Zinc stearate.....	-	.	-	.
Zinc, white, in oil.....	-	.	-	.
All other products (including products reported by only one or two firms in this group marked* above).....	-	380,020,679	-	438,914,670
Total	-	935,724,880	-	1,044,079,000

TABLE 13. Imports into Canada and Exports of Chemicals and Allied Products, 1920-1955

(Values in 000's of dollars)

Year	Total Canada \$	From or to United Kingdom		From or to United States	
		\$	%	\$	%
(a) IMPORTS					
1920.....	40,010	6,811	17.0	31,330	78.6
1925.....	27,653	4,300	15.6	18,327	66.3
1930.....	36,785	4,709	12.8	23,960	65.0
1935.....	29,757	6,331	21.3	17,458	58.7
1940.....	51,824	7,546	14.5	41,493	80.1
1945.....	79,759	4,748	5.9	71,309	89.4
1950.....	158,221	14,047	8.9	134,603	85.1
1951.....	191,813	16,188	8.4	165,061	86.1
1952.....	187,713	12,225	6.5	166,249	88.6
1953.....	221,834	18,551	8.3	191,812	86.5
1954.....	220,406	18,590	8.4	190,489	86.4
1955.....	260,499	22,626	8.6	222,612	85.4
(b) EXPORTS					
1920.....	21,432	4,159	19.5	11,644	54.3
1925.....	17,450	3,451	19.8	8,937	51.2
1930.....	16,321	3,332	20.4	9,003	55.2
1935.....	16,372	3,022	18.5	7,983	48.7
1940.....	31,223	8,343	26.7	10,846	34.7
1945.....	111,318	16,437	14.8	51,891	46.6
1950.....	100,525	5,993	6.0	58,499	58.5
1951.....	131,690	10,370	7.9	67,253	51.1
1952.....	124,565	9,712	7.8	75,107	60.3
1953.....	137,885	8,551	6.2	84,598	61.4
1954.....	161,293	15,676	9.8	85,910	53.3
1955.....	210,040	19,945	9.5	111,724	53.2

STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010681664

