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CHEMICALS AND ALLIED PRODUCTS

1958

General Review

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PUBLICATIONS

The results of the annual Census of Industry are published by the Dominion Bureau of Statistics in a series of industry reports which are released each year as the compilations are completed. Reports for industries classified to the **Chemicals and Allied Products** Major Group are listed below, along with current and annual publications of related interest. Similar reports are issued for other industries. A complete catalogue of publications of the Bureau is available on request from the Information Services Division, Dominion Bureau of Statistics, Ottawa, or from the Queen's Printer, Ottawa.

Catalogue number	Title	Frequency	Price
		A - Annual B - Biennial M - Monthly S.C. - Special Compilation	
46-201	Chemicals and Allied Products - General Review (A)		.50
46-202	Acids, Alkalies and Salts Industry (A)		.50
46-203	Adhesives Industry (A)		.50
46-204	Coal Tar Distillation Industry (A)		.25
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Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information Services Division, Dominion Bureau of Statistics, or to the Queen's Printer, Ottawa, Canada.

EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1958 Census of Manufactures. Most reports in this series refer to specific industries, but there are summary reports for Canada and the provinces and for major industry groups. An annual Census of Manufactures has been carried out by the Dominion Bureau of Statistics since 1916.

Industry statistics given in these reports refer to number of establishments, employees, salaries and wages, cost of materials, supplies, fuel and electricity, gross value of shipments, inventories and value added by manufacturing. Details of materials used and products shipped are also given. Descriptions of the principal industry statistics, with special reference to 1958, are as follows:

Period Covered

Firms are asked to submit figures for the calendar year, if at all possible, and most reports are on this basis. Financial year reports for periods differing from the calendar year are accepted in instances where the firms find it impossible to supply calendar year data from accounting records. However the data on employees, salaries and wages are requested on a calendar year basis in all cases.

Establishment

Data for the annual census is collected on an establishment basis. A firm with more than one plant is required to file a report for each plant. In most cases an establishment is a complete factory. Sometimes, however, a plant is divided into two or more establishments when it carries out operations classifiable to different industries and when separate accounting records are available. Usually the statistics for an establishment relate only to the manufacturing activities. Other activities such as construction at the plant by its own employees, wholesale or retail activities carried on at the plant location, etc., are not included. Plants engaged solely in repair work (except in the case of furniture, shipbuilding, boat building, aircraft and railway rolling stock industries) are not included but plants occupied in assembling parts into complete units are included.

Employees

Administrative and office employees include all executives and supervisory officials such as presidents, vice-presidents, secretaries, treasurers, etc., together with managers, professional and technical employees, superintendents and factory supervisors above the working foremen level and clerical employees. Working owners and partners are also included in this category.

Production and related workers include all other factory workmen whether paid on a monthly, weekly, hourly or piece-work basis. Working foremen doing work similar to that of the employees they supervise are included, as are maintenance, warehousing and delivery staffs. Employees on new construction work, in retail or wholesale operations, on outside piece work etc., are not included.

Production workers are reported by months, an average for the year being obtained by summing the monthly figures and dividing by twelve. This procedure is followed even though the plant did not operate in all months. Figures on employment refer to calendar years whether or not some establishments reported other data on a financial year basis.

Salaries and Wages

Salaries and wages refer to gross earnings of the employees described above, including salaries, wages, commissions, bonuses, the value of room and board where provided, deductions for income tax and social services such as sickness and unemployment insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. Payments for overtime are included.

Salaries refer to amounts paid to administrative and office employees. Withdrawals by working owners or partners for normal living expenses for self and family are included but not their withdrawals for income tax. Wages refer to the amounts paid to production and related workers as defined above. Data on earnings refer to the calendar year whether or not some establishments reported other data on a financial year basis.

Cost of Fuel and Electricity

Figures for fuel refer to amounts actually used, (including fuel used in cars and trucks), not to purchases unless the quantities are the same. Values refer to the laid-down cost at the works, including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the works, of materials and supplies actually used during the year whether purchased from others or received as transfers from other plants of the reporting company. Amounts paid to other manufacturers for work done on materials owned by the reporting company are included. Returnable containers or any other items charged to capital account are not included. Fuels are not included. Goods bought from others or received as transfers from other plants of reporting companies

for resale without further processing are not included. Maintenance and repair supplies not chargeable to capital account are included.

Factory Shipments

Factory shipments refer to shipments of goods made from own materials either in the reporting plant or by other manufacturers on the basis of a charge to the reporting plant for work done. All products and by-products shipped from the establishment are included whether for domestic use, export, or for government departments. Transfer shipments to sales outlets, distributing warehouses or to other manufacturing units of the reporting firm are included. Goods bought or received as transfers and resold without further processing are not included. Values are computed on f.o.b. plant or plant warehouse basis, and do not include sales tax or excise duties. Values of containers not returnable are included. Amounts received in payment for work done on materials owned by others are included.

In a few industries such as shipbuilding, aircraft, etc., where work on principal products extend over a relatively long period, the value of production is recorded rather than the value of shipments. For those industries production is computed from the value of deliveries of complete units during the year plus the value of work done during the year on unfinished units less the value of work done in previous years on finished units delivered in the year under review.

Inventories

Values represent the book values of manufacturing inventories owned and held at the reporting plant. Figures include inventories held in warehouses or selling outlets which have been included with plant operations for purposes of reporting shipments.

Value Added by Manufacturing

Figures are computed from value of shipments plus or minus changes in inventories of finished

goods and goods in process less cost of materials, fuel and electricity. This figure is sometimes referred to as net production.¹

Standard Industrial Classification

The Standard Industrial Classification Manual, prepared by the Dominion Bureau of Statistics, provides for 135 three-digit industries in the manufacturing sector, arranged in 17 major groups. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Short Forms

Prior to 1949 all manufacturing firms, regardless of size, were required to complete a standard form annually covering all census details, but for later years an effort was made to ease the reporting burden for smaller firms which usually do not maintain regular records in the required detail. A modified or short form was introduced in 1949 asking for the total value of shipments only, or in industries with a large number of small firms, for total value of shipments and quantities and values of a few principal products. Using the ratio of value of shipments in the current year to value of shipments in the base year, 1948, estimates of other census data were made for each plant for inclusion in the regular compilations. In general, the cut-off point for short forms was set at \$50,000 gross value of shipments annually, but there were lower cut-offs for a number of industries in which the small firms accounted for a larger share of total shipments. About 40 per cent of the total number of establishments reported on the modified or short form. They accounted for less than 3 per cent of the total value. In 1958, to establish a new base year, the small firms were again asked to report data on employees, salaries and wages, and other principal statistics together with some detail on material and products.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of office supplies used, advertising, insurance and other goods and services obtained from other businesses. Data on these inputs are not collected on the annual Census of Manufactures. Value added figures for "The primary industries and construction" are published in D.B.S. publication 61-202, *Survey of Production*.

SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- ^r revised figures.

CHEMICALS AND ALLIED PRODUCTS

1958

General Review

Production of chemicals and allied products totalled \$1,293.3 millions in 1958 compared with \$1,203.4 millions in 1957, an increase of about 7.5 per cent. The net value of production, or the value added by manufacturing, also advanced, the \$664.8 millions in 1958 being 9.8 per cent higher than the \$605.3 millions in 1957.

Factory shipments by industries were as follows, in millions of dollars; acids, alkalies and salts, \$261.0; fertilizers, \$89.1; medicinals and pharmaceuticals, \$155.0; paints and varnishes, \$144.0; primary plastics, \$97.8; soaps, washing compounds and cleaning preparations, \$132.0; toilet preparations, \$51.9; vegetable oils, \$53.8; inks, 17.5; adhesives, \$14.4; polishes and dressings, \$24.5; compressed gases, \$23.7; coal tar distillation, \$12.0; miscellaneous chemical products, \$217.5.

In the entire group there were 1,143 plants in 1958 with approximately 55,000 employees and an aggregate payroll of \$234 millions. The 555 plants in Ontario accounted for 58 per cent of the production and 50 per cent of the employees and the 373 plants in Quebec accounted for about 30 per cent of the total output and 39 per cent of the workers. The other provinces with 215 plants accounted for about 12 per cent of the total Canadian production. Materials used in manufacturing processes cost

\$589.3 millions and fuel and electricity cost \$47.8 millions.

The exports of chemicals and allied products showed an increase in 1958, the value of \$197.1 millions being about 1 per cent higher than the \$195.3 millions in 1957. Exports to the United States amounted to \$79.4 or 40 per cent of the total shipped to all foreign countries.

Imports at \$290.4 millions decreased about 1.2 per cent from the \$293.8 millions reported in 1957. About 85 per cent of the imports came from the United States while the United Kingdom accounted for about 8 per cent.

Note: Due to the lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the "Value added" adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturers. Beginning with 1956 the calculation of the "Value added" figure was further adjusted to take into account the "Goods in process" as well as the finished goods held at plant or plant warehouses.

TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1957 and 1958

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
	number		dollars				
1957							
Acids, alkalis and salts	54	9,981	46,965,641	20,384,094	95,237,538	104,278,255	215,834,187
Fertilizers	44	3,011	12,899,267	3,151,337	47,134,450	35,459,400	83,807,556
Medicinals and pharmaceuticals	207	8,146	28,656,116	1,071,778	42,336,512	97,276,687	140,092,919
Paints and varnishes	129	6,316	24,288,330	1,002,965	65,590,927	64,528,051	131,132,991
Primary plastics	29	3,443	15,709,733	1,995,912	48,088,585	42,457,576	91,836,820
Soaps, washing compounds and cleaning preparations	139	3,680	15,411,154	1,372,986	49,530,366	69,747,619	118,872,856
Toilet preparations	86	2,429	7,230,451	181,098	18,532,081	31,173,115	49,838,084
Vegetable oils	11	656	2,663,046	756,414	50,899,324	8,924,511	60,951,564
Inks	32	977	4,015,365	136,893	6,935,556	9,972,013	16,912,330
Adhesives	29	627	2,321,588	456,150	6,475,344	6,720,361	13,707,648
Polishes and dressings	44	842	3,074,914	138,178	10,027,310	12,084,077	22,324,359
Compressed gases	55	1,624	5,976,046	750,304	4,124,884	19,619,406	24,280,515
Coal tar distillation	11	530	2,600,013	770,891	8,200,347	4,809,942	13,663,996
Miscellaneous chemical products	267	12,446	50,232,825	9,932,741	112,633,167	98,222,608	220,155,372
Totals	1,137	54,708	222,044,489	42,101,741	565,746,391	605,273,621	1,203,411,197
1958							
Acids, alkalis and salts	59	10,073	49,780,443	24,563,054	111,593,209	126,831,706	260,967,832
Fertilizers	45	2,993	13,424,810	3,281,095	48,593,959	37,209,183	89,145,796
Medicinals and pharmaceuticals	196	7,996	29,847,315	1,084,043	44,289,303	111,162,375	155,006,181
Paints and varnishes	131	6,234	25,221,595	963,046	70,560,548	73,063,764	143,096,594
Primary plastics	34	3,435	16,255,231	2,832,055	52,091,681	42,565,649	97,802,453
Soaps, washing compounds and cleaning preparations	137	3,882	17,020,895	1,515,602	55,530,784	76,077,926	132,022,831
Toilet preparations	83	2,393	7,361,071	198,346	18,628,395	33,659,484	51,856,286
Vegetable oils	11	614	2,675,234	818,662	45,502,890	8,157,210	53,795,209
Inks	42	1,015	4,059,844	158,252	7,486,995	9,837,464	17,481,629
Adhesives	28	642	2,556,561	499,027	7,120,720	6,872,624	14,380,563
Polishes and dressings	43	833	3,301,694	139,841	10,705,496	13,606,383	24,508,033
Compressed gases	57	1,477	6,383,678	769,443	3,991,445	18,795,761	23,742,234
Coal tar distillation	10	572	2,761,006	744,488	7,611,604	3,463,246	12,018,034
Miscellaneous chemical products	267	12,411	53,169,953	10,329,917	105,608,965	103,550,460	217,508,017
Totals	1,143	54,570	233,819,330	47,836,871	589,315,994	664,853,235	1,293,331,692

¹ See note to text.

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1957 and 1958

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
	number		dollars				
1957							
Newfoundland	5	77	216,281	20,588	754,171	735,198	1,510,857
Prince Edward Island and Nova Scotia	17	329	1,012,538	191,459	4,332,292	3,137,893	7,306,112
New Brunswick	9	150	473,437	89,551	3,070,360	1,307,214	4,344,891
Quebec	372	21,835	87,168,720	12,054,069	171,520,780	183,014,716	365,900,512
Ontario	554	26,836	111,182,216	25,464,966	329,778,344	352,476,904	702,383,835
Manitoba	37	749	2,257,544	183,326	8,362,710	7,447,957	16,163,547
Saskatchewan	9	223	903,832	38,282	2,849,887	1,386,010	4,159,342
Alberta	36	1,940	8,495,390	2,577,086	17,229,543	26,032,779	42,955,847
British Columbia	98	2,569	10,334,531	1,482,414	27,848,304	29,734,950	58,686,254
Canada	1,137	54,708	222,044,489	42,101,741	565,746,391	605,273,621	1,203,411,197
1958							
Newfoundland	6	82	271,179	23,319	912,880	1,054,972	1,996,866
Prince Edward Island and Nova Scotia	17	337	1,055,229	159,600	4,352,858	2,975,340	7,644,897
New Brunswick	7	143	495,682	77,926	3,062,220	1,267,260	4,885,739
Quebec	373	21,346	89,235,755	12,652,720	170,467,150	211,401,583	390,656,361
Ontario	555	27,327	119,559,986	29,888,806	350,199,306	374,548,476	750,576,807
Manitoba	37	728	2,439,200	197,983	9,218,012	8,498,911	17,746,830
Saskatchewan	10	215	955,798	38,090	3,001,688	1,308,105	4,359,950
Alberta	37	1,836	8,737,681	2,725,924	17,955,587	28,410,559	49,114,078
British Columbia and Northwest Territories	101	2,556	11,068,820	2,072,443	30,146,293	35,388,029	66,350,164
Canada	1,143	54,570	233,819,330	47,836,871	589,315,994	664,853,235	1,293,331,692

TABLE 3. Inventories¹ in the Chemical and Allied Products Group, by Industries, 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Acids, alkalies and salts	22,562,890	3,447,518	15,617,018	41,627,426
Fertilizers	10,828,937	6,758,463	9,258,204	26,845,604
Medicinals and pharmaceuticals	11,298,554	6,626,375	9,904,255	27,829,184
Paints and varnishes	9,552,660	1,883,019	12,525,736	23,961,415
Primary plastics	7,306,818	1,332,484	5,728,756	14,368,058
Soaps, washing compounds and cleaning preparations	6,742,374	1,503,972	9,563,600	17,809,946
Toilet preparations	4,771,228	395,272	2,620,788	7,787,288
Vegetable oils	8,267,755	49,942	1,758,982	10,076,679
Inks	1,220,566	333,295	740,236	2,294,097
Adhesives	1,037,174	63,482	1,048,993	2,149,649
Polishes and dressings	1,782,114	152,844	1,264,667	3,199,625
Compressed gases	1,094,261	173,926	193,433	1,461,620
Coal tar distillation	920,623	138,375	1,503,907	2,562,905
Miscellaneous chemical products	45,816,795	11,654,732	10,922,561	68,394,088
Totals	133,202,749	34,513,699	82,651,136	250,367,584
Closing:				
Acids, alkalies and salts	22,076,521	3,969,811	17,114,862	43,161,194
Fertilizers	11,273,350	5,169,061	10,786,047	27,228,458
Medicinals and pharmaceuticals	11,837,411	6,188,436	11,871,734	29,897,581
Paints and varnishes	10,080,653	1,866,180	14,033,339	25,980,172
Primary plastics	6,577,787	1,188,887	5,559,285	13,325,959
Soaps, washing compounds and cleaning preparations	7,728,236	1,587,490	10,581,563	19,897,289
Toilet preparations	4,817,087	368,921	3,277,078	8,463,086
Vegetable oils	7,524,335	89,441	2,403,036	10,016,812
Inks	1,248,357	339,972	734,641	2,322,970
Adhesives	1,070,799	65,186	1,099,097	2,235,082
Polishes and dressings	1,907,524	143,157	1,218,041	3,268,722
Compressed gases	739,504	..	181,774	921,278
Coal tar distillation	737,686	113,907	1,329,679	2,181,272
Miscellaneous chemical products	36,261,379	11,876,692	12,681,926	60,819,997
Totals	123,880,629	32,967,141	92,872,102	249,719,872

¹ See footnote to Table 4.TABLE 4. Inventories¹ in the Chemical and Allied Products Group, by Provinces, 1958

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland	212,418	3,050	131,787	347,255
Prince Edward Island and Nova Scotia	874,300	350,151	1,103,514	2,327,965
New Brunswick	605,386	635,254	435,860	1,676,500
Quebec	54,013,477	14,865,774	24,148,387	93,027,638
Ontario	61,990,900	17,707,401	43,915,382	123,613,683
Manitoba	1,359,184	122,014	1,341,324	2,822,522
Saskatchewan	1,057,833	44,348	238,859	1,341,040
Alberta	5,365,002	574,557	5,451,418	11,390,977
British Columbia and North West Territories	7,724,249	211,150	5,884,625	13,820,024
Canada	133,202,749	34,513,699	82,651,136	250,367,584
Closing:				
Newfoundland	770,056	5,299	123,823	899,178
Prince Edward Island and Nova Scotia	717,062	352,806	943,820	2,013,688
New Brunswick	414,806	575,740	17,041	1,007,587
Quebec	45,694,545	14,943,784	27,935,469	88,573,798
Ontario	61,167,535	16,134,235	49,548,329	126,850,099
Manitoba	1,569,731	182,615	1,448,799	3,201,145
Saskatchewan	807,260	..	271,140	1,078,400
Alberta	4,549,312	439,417	5,564,550	10,553,279
British Columbia and North West Territories	8,190,322	333,245	7,019,131	15,542,698
Canada	123,880,629	32,967,141	92,872,102	249,719,872

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 Establishments, for the Chemicals and Allied Products Group, 1958

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of materials	Gross value of factory shipments
	number		dollars			
(a) Factory shipments						
Under \$10,000	116	163	271,815	19,066	226,904	617,633
\$10,000 to \$24,999	98	281	622,617	42,108	643,244	1,615,869
\$25,000 " \$49,999	120	528	1,476,731	83,771	2,064,674	4,386,261
\$50,000 " \$99,999	113	795	2,521,839	195,226	4,015,608	8,388,961
\$100,000 " \$199,999	125	1,153	3,868,115	276,380	8,011,616	18,000,923
\$200,000 " \$499,999	187	3,221	12,090,311	777,476	26,458,777	60,024,189
\$500,000 " \$999,999	136	4,470	17,557,988	1,530,432	46,726,169	96,978,414
\$1,000,000 " \$4,999,999	194	16,903	67,210,972	10,264,616	196,625,871	418,159,205
\$5,000,000 and over	54	24,655	114,074,197	34,647,796	304,543,131	685,160,237
Head offices .....	..	2,401	14,124,745	..	..	..
Totals	1,143	54,570	233,819,330	47,836,871	589,315,994	1,293,331,692
(b) Employees						
Under 5 employees	335	769	2,199,598	172,246	7,553,313	14,921,434
5 to 14 employees	325	2,708	9,946,576	726,560	29,458,500	60,906,344
15 " 49 employees	265	7,138	27,715,413	3,153,168	93,618,998	185,667,849
50 " 99 employees	115	7,962	30,995,239	4,558,539	112,128,896	226,367,492
100 " 199 employees	51	7,127	29,178,339	7,569,017	97,680,814	202,805,003
200 " 499 employees	34	10,330	45,946,149	8,902,310	97,881,528	248,234,659
500 " 999 employees	15	10,773	48,627,588	12,906,561	109,988,657	252,610,018
1,000 " 1,499 employees	2	5,334	25,085,683	9,948,470	41,005,288	101,618,893
1,500 and over	1					
Head offices .....	..	2,429	14,124,745	..	..	..
Totals	1,143	54,570	233,819,330	47,836,871	589,315,994	1,293,331,692

TABLE 6. New Investment in Durable Physical Assets and Repair and Maintenance, in the Chemicals and Allied Products Group, 1949-58

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
millions of dollars							
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	61.2	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
1956	57.9	87.0	144.9	6.2	31.9	38.1	183.0
1957	65.6	84.1	149.7	8.1	39.6	47.7	197.4
1958	43.1	73.5	116.6	9.2	41.9	51.1	167.7

Note: Data in the above table are final figures and, therefore, differ to some extent from the total of the preliminary figures shown in the bulletins for the individual industries.

TABLE 7. Employees and their Earnings in the Chemicals and Allied Products Group, by Industries, 1957 and 1958

Industry	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
Acids, alkalis and salts	2,586	738	6,596	61	9,981	17,676,020	29,289,621	46,965,641
Fertilizers	713	159	2,126	13	3,011	4,415,344	8,483,923	12,899,267
Medicinals and pharmaceuticals	1,876	1,685	2,303	2,282	8,146	15,751,120	12,904,996	28,656,116
Paints and varnishes	1,851	1,004	3,138	323	6,316	12,461,952	11,826,378	24,288,330
Primary plastics	1,031	347	1,989	76	3,443	6,919,592	8,790,141	15,709,733
Soaps, washing compounds and cleaning preparations	984	519	1,796	381	3,680	7,269,472	8,141,632	15,411,154
Toilet preparations	362	461	584	1,022	2,429	3,403,817	3,826,634	7,230,451
Vegetable oils	188	64	401	3	656	1,254,021	1,409,025	2,663,046
Inks	215	107	623	32	977	1,705,048	2,310,317	4,015,365
Adhesives	132	92	379	24	627	906,711	1,414,877	2,321,588
Polishes and dressings	195	188	276	183	842	1,845,996	1,228,918	3,074,914
Compressed gases	624	287	713	—	1,624	3,043,259	2,932,787	5,976,046
Coal tar distillation	128	33	365	4	530	1,160,986	1,439,027	2,600,013
Miscellaneous chemical products	3,099	1,270	6,791	1,286	12,446	21,183,605	29,049,220	50,282,825
Totals	13,984	6,954	28,080	5,690	54,708	98,996,943	123,047,546	222,044,489
1958								
Acids, alkalis and salts	2,544	691	6,791	47	10,073	18,285,357	31,495,086	49,780,443
Fertilizers	723	173	2,087	10	2,993	4,860,583	8,584,227	13,424,810
Medicinals and pharmaceuticals	1,755	1,634	2,334	2,273	7,996	15,891,058	13,956,257	29,847,315
Paints and varnishes	1,809	989	3,101	335	6,234	12,905,267	12,316,328	25,221,595
Primary plastics	1,013	338	2,013	71	3,435	7,243,214	9,012,017	16,255,231
Soaps, washing compounds and cleaning preparations	1,028	554	1,890	410	3,882	7,908,170	9,112,725	17,020,895
Toilet preparations	352	475	557	1,009	2,393	3,507,538	3,853,533	7,361,071
Vegetable oils	182	60	371	1	614	1,309,851	1,365,383	2,675,234
Inks	198	131	631	55	1,015	1,663,728	2,396,116	4,059,844
Adhesives	149	93	375	25	642	1,155,396	1,401,165	2,556,561
Polishes and dressings	217	175	274	167	833	2,023,092	1,278,602	3,301,694
Compressed gases	542	242	687	6	1,477	3,433,962	2,949,716	6,383,678
Coal tar distillation	165	40	364	3	572	1,318,112	1,442,894	2,761,006
Miscellaneous chemical products	3,125	1,273	6,703	1,310	12,411	22,736,229	30,433,724	53,169,953
Totals	13,802	6,868	28,178	5,722	54,570	104,241,557	129,577,773	233,819,330

TABLE 8. Employees and their Earnings in the Chemicals and Allied Products Group, by Provinces, 1957 and 1958

Province	Employees					Earnings		
	Supervisory and office		Production and related workers		Total	Supervisory and office	Production and related workers	Total
	Male	Female	Male	Female				
	number					dollars		
1957								
Newfoundland	16	4	43	14	77	65,837	150,444	216,281
Prince Edward Island and Nova Scotia	87	32	197	13	329	420,467	592,071	1,012,538
New Brunswick	29	8	110	3	150	118,882	354,555	473,437
Quebec	5,864	2,930	10,560	2,481	21,835	41,922,302	45,246,418	87,168,720
Ontario	6,425	3,488	13,943	2,980	26,836	47,671,209	63,511,007	111,182,216
Manitoba	189	113	372	75	749	1,043,383	1,214,161	2,257,544
Saskatchewan	103	39	79	2	223	599,127	304,705	903,832
Alberta	609	145	1,160	26	1,940	3,302,048	5,193,342	8,495,390
British Columbia and Northwest Territories	662	195	1,616	96	2,569	3,853,688	6,480,843	10,334,531
Canada	13,984	6,954	28,080	5,690	54,708	98,996,943	123,047,546	222,044,489
1958								
Newfoundland	17	5	43	17	82	103,656	167,523	271,179
Prince Edward Island and Nova Scotia	93	30	202	12	337	442,160	613,049	1,055,229
New Brunswick	25	7	111	—	143	151,954	343,728	495,682
Quebec	5,766	2,895	10,240	2,445	21,346	43,252,430	45,983,325	89,235,755
Ontario	6,448	3,443	14,389	3,047	27,327	50,819,589	68,740,397	119,559,986
Manitoba	169	102	385	72	728	1,113,013	1,326,187	2,439,200
Saskatchewan	92	37	83	3	215	618,697	337,101	955,798
Alberta	566	145	1,098	27	1,836	3,633,224	5,104,457	8,737,681
British Columbia and Northwest Territories	626	204	1,627	99	2,556	4,106,814	6,962,006	11,068,820
Canada	13,802	6,868	28,178	5,722	54,570	104,241,557	129,577,773	233,819,330

TABLE 9. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Industries and by Months, 1958

Month	Acids, alkalis and salts	Fertilizers	Medicinals and pharmaceuticals	Paints and varnishes	Primary plastics	Soaps and cleaning preparations	Toilet preparations	
	number							
January	6,732	2,076	4,364	3,109	2,010	1,991	1,360	
February	6,854	2,135	4,379	3,183	2,017	1,987	1,400	
March	6,815	2,182	4,319	3,267	2,049	2,002	1,433	
April	6,815	2,481	4,397	3,384	2,072	2,052	1,454	
May	6,945	2,403	4,383	3,535	2,073	2,069	1,453	
June	7,016	2,040	4,419	3,587	2,131	2,124	1,526	
July	6,932	1,928	4,377	3,565	2,105	2,210	1,465	
August	6,821	1,927	4,433	3,515	2,128	2,257	1,461	
September	6,852	2,053	4,416	3,408	2,097	2,265	1,514	
October	6,766	2,030	4,231	3,345	2,114	2,192	1,630	
November	6,802	2,031	4,217	3,221	2,125	2,121	1,596	
December	6,713	1,949	4,150	3,137	2,110	2,086	1,419	
	Vegetable oils	Inks	Adhesives	Polishes and dressings	Compressed gases	Coal tar distillation	Miscellaneous	Total
January	372	683	429	399	712	374	7,616	32,227
February	376	670	402	405	712	370	7,670	32,560
March	369	665	392	415	696	367	7,760	32,731
April	351	665	389	427	691	366	7,723	33,267
May	358	675	386	433	686	378	7,812	33,589
June	370	684	391	437	701	374	7,981	33,781
July	321	696	351	422	709	388	7,934	33,403
August	361	699	399	406	705	374	7,774	33,260
September	378	694	405	413	687	361	7,755	33,298
October	421	695	417	401	681	349	7,742	33,014
November	402	701	418	399	675	345	7,522	32,475
December	376	702	406	396	672	357	7,426	31,899

Note: See footnote to Table 10.

TABLE 10. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Provinces and by Months, 1958

Month	Newfoundland	Prince Edward Island and Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia and Northwest Territories	Canada
	number									
January	47	180	105	12,253	16,516	395	78	1,113	1,540	32,227
February	50	174	101	12,410	16,613	408	79	1,107	1,618	32,560
March	48	172	91	12,394	16,705	413	86	1,124	1,698	32,731
April	52	230	187	12,266	17,174	435	95	1,109	1,719	33,267
May	56	274	164	12,405	17,348	450	90	1,107	1,695	33,589
June	58	233	80	12,578	17,468	461	96	1,114	1,693	33,781
July	60	187	70	12,427	17,272	468	85	1,127	1,707	33,403
August	56	185	78	12,370	17,280	448	81	1,094	1,668	33,260
September	52	249	92	12,388	17,274	429	82	1,110	1,622	33,298
October	55	241	100	12,463	16,989	423	80	1,085	1,578	33,014
November	55	175	110	12,274	16,750	424	78	1,058	1,551	32,475
December	53	241	103	11,903	16,573	416	77	1,051	1,482	31,899

Note: Data in Tables 9 and 10 are not strictly comparable with those for previous years since they relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For total average number of production workers in 1958 (including estimates for small firms) see Tables 7 and 8.

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1957 and 1958

Item	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Acetic anhydride	lb. 701,559	86,094	885,487	110,056
Acetone	" 4,893,150	475,631	5,480,477	556,265
Acetanilid	" 8,560	4,306	7,651	3,915
Acetylene	cu. ft. 215,552,995	1,681,883	214,933,729	1,628,935
Acid:				
Acetic	lb. 17,450,410	1,674,856	20,172,941	2,029,515
Acetylsalicylic	" 882,721	500,665	811,186	476,343
Arsenic (As ₂ O ₃)	" 533,023	23,885	436,022	18,758
Benzolic	" 337,857	79,794	344,612	75,581
Boric or boracic	" 118,914	12,969	120,760	14,315
Citric	" 668,203	192,862	671,633	210,419
Cresylic (including cresols)	" 1,568,814	208,713	1,276,179	189,958
Fatty, n.e.s.	" 3,824,158	509,378	5,936,726	741,905
Formic	" 820,000	100,563	797,686	113,507
Hydrochloric (muriatic)	" 10,870,781	305,586	8,629,588	534,827
Naphthenic	" 1,906,305	176,393	1,829,359	201,908
Nitric	" 11,619,883	474,517	17,542,997	734,406
Oleic	" 1,069,202	194,427	1,046,753	191,698
Oxalic	" 146,103	22,515	101,389	17,618
Phosphoric	" 1,350,639	113,685	1,452,311	131,546
Stearic	" 1,682,689	270,053	2,318,912	298,661
Sulphuric	" 1,506,626,540	8,848,280	1,716,629,107	7,057,705
Tannic	" 4,142	5,521	4,281	6,200
Tartaric	" 563,072	202,132	637,853	242,897
Alcohol:				
Amyl (fusel oil)	gal. 2,328	2,624	6,439	8,705
Ethyl	lb. 4,436,345	677,434	4,256,423	660,856
Methyl	gal. 1,185,774	1,490,697	1,281,471	1,587,792
Isopropyl	lb. 6,503,855	548,342	8,324,219	687,004
Methyl (wood) refined	gal. 3,349,574	1,234,219	3,539,388	1,294,959
Aluminum rod, strip, etc.	lb. 54,071	25,398	47,763	22,126
Aluminum hydrate	" 31,212,096	780,302	46,764,376	1,169,109
Aluminum sulphate	" 1,827,806	54,702	1,133,118	33,235
Ammonia, anhydrous	" 255,711,742	6,903,502	217,808,995	6,392,416
Ammonium chloride	" 61,180	5,008	3,810	436
Ammonium nitrate	" 18,373,498	646,013	20,043,077	687,466
Ammonium phosphate	ton 6,586	593,554	11,562	978,747
Ammonium sulphate	" 33,843	1,343,327	30,865	1,258,896
Amyl acetate	lb. 206,554	39,518	233,454	43,279
Arsenic, white (As ₂ O ₃)	" 49,563	2,877	60,927	3,433
Asphalt	gal. 769,083	146,830	787,250	176,843
Barium chloride	lb. 721,627	56,961	1,222,479	81,095
Barium nitrate	" 171,722	21,365	114,977	14,208
Barytes	" 1,939,757	70,779	1,632,871	59,088
Bentonite (filtrol, Pembina, etc.)	ton 871	98,098	1,364	140,631
Benzol ¹	lb. 117,209,662	5,803,692	128,210,109	5,670,130
Bismuth metal	" 8,544	18,133	14,125	27,622
Bismuth salts	" 18,811	63,069	17,306	52,059
Black, lamp, bone and other, n.e.s.	" 206,297	43,584	187,698	41,369
Blanc fixe	" 602,768	21,788	352,136	20,577
Bones	ton 15,193	498,949	14,432	448,034
Borax	lb. 2,301,503	105,901	2,391,159	116,150
Brass rod, strip, etc.	" 4,944,325	1,847,642	2,461,689	842,016
Butyl acetate	" 3,963,218	639,828	3,801,289	604,448
Butyl cellulose	" 453,006	106,250	694,515	159,674
Caffeine	" 32,342	84,427	27,700	70,360
Calcium arsenate	" 213,110	17,896	143,365	13,210
Calcium carbide	" 33,268,379	1,710,234	28,590,265	1,484,388
Calcium carbonate (ground chalk, whiting etc.)	" 28,687,506	537,775	33,650,259	615,236
Calcium chloride	" 2,249,736	55,545	1,732,375	44,379
Calcium sulphate	" 1,634,306	30,163	1,859,109	32,531
Camphor	" 54,681	32,118	51,316	30,680

¹ Includes usage for production of synthetic rubber.

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Continued

Item	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Carbon bisulphide	lb. 5,094,089	285,079	4,688,663	257,891
Carbon black	" 2,408,232	354,855	2,287,541	330,975
Carbon tetrachloride	" 7,574,094	703,664	8,259,337	678,997
Casein	" 1,437,423	373,472	1,310,852	340,873
Chalk, precipitated	" 422,300	21,890	555,868	24,274
Charcoal	" 5,616,521	194,444	5,079,327	170,668
Chloride of lime	" 1,403,874	68,462	1,416,900	73,454
Chlorine, liquid	" 16,138,354	624,853	22,949,104	975,879
Coal:				
Anthracite (except for fuel)	ton 22,647	357,874	55,616	876,050
Cobalt acetate	lb. 3,950	4,778	7,666	8,175
Cobalt sulphate	" 3,976	3,289	5,589	5,155
Coke:				
Petroleum (except for fuel)	ton 1,116	26,616	1,153	28,529
Other (except for fuel)	" 227,727	3,990,726	256,203	4,698,224
Colours, chrome	lb. 2,365,018	967,689	2,402,093	985,791
Copper sulphate	" 216,665	61,490	248,005	61,648
Copra or dried cocoanut kernels	" 33,540,660	2,453,462	11,734,045	936,048
Cotton linters	" 485,625	66,211	355,569	45,131
Creosote	" 227,821	15,893	234,844	17,505
D.D.T.	" 645,245	128,836	829,738	159,336
Dextrine	" 8,379,478	801,133	9,821,685	730,546
Diatomaceous earth	ton 6,287	331,786	12,293	722,765
Dibutyl phthalate	lb. 349,490	82,557	748,099	219,236
Dinitrotoluene	" 318,435	49,555	241,513	32,687
Driers:				
Linoleate	" 22,386	6,788	57,651	8,500
Naphthenate	" 2,081,820	648,313	2,230,846	666,606
Resinate	" 45,131	13,655	53,481	10,622
Other	" ..	156,076	..	188,827
Dyes and colours, other	" ..	251,872	..	256,360
Electrodes	" ..	625,370	..	374,150
Ethanolamines - Di - Mono - Tri - other	lb. 1,354,154	368,258	2,490,618	684,671
Ether, sulphuric	" 76,096	21,486	70,957	13,219
Ethyl acetate	" 4,386,648	605,107	2,899,685	393,269
Ethylene glycol (see also "Glycols, other")	" 22,680,161	3,131,418	29,824,233	3,956,118
Feldspar	ton 2,201	38,914	1,016	18,553
Ferric chloride	lb. 133,860	6,308	113,302	6,256
Flaxseed	bu. 3,633,115	11,313,609	3,478,991	10,718,417
Flour:				
Potato	lb. 165,582	13,153	261,596	19,817
Soya bean	" 6,679	517	..	..
Tapioca	" 421,820	46,626	382,748	41,879
Wheat	" 3,363,090	146,025	4,091,146	174,411
Other	" 263,305	16,048	242,174	13,390
Fluorspar	ton 53,198	1,686,951	74,939	2,436,656
Foats, olive and cotton seed	lb. 6,295,202	413,115	5,818,238	439,887
Formaldehyde	" 56,432,637	2,138,606	23,717,268 ²	2,212,605
Fuller's earth	ton 329	19,840	266	15,241
Glucose	lb. 2,083,639	174,644	2,046,053	162,147
Glue	" 3,273,909	790,861	3,667,797	834,125
Glycerine:				
Crude	" 6,893,918	1,164,407	8,497,969	1,391,487
Refined	" 11,902,791	3,371,202	11,309,843	3,251,462
Glycols, other	" 2,826,803	536,764	3,429,715	606,707
Graphite	" 767,402	214,903	1,307,527	453,335
Grease	" 1,852,563	161,325	834,375	78,188
Gun powder	" 916,497	516,546	1,001,563	599,260
Herbs, roots and vegetable drugs	" -	365,086	..	249,690
Hides and hide trimmings	ton 18,509	247,543	21,531	303,016
Hydrogen chloride, anhydrous	lb. 14,746,000	648,858	14,546,912	643,135

² 100% in 1958.

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Continued

Item	1957		1958		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Iodine, crude	lb.	72,753	82,885	68,789	67,137
Iron, scrap	ton	5,466	223,507	4,320	123,797
Iron oxide pigments	lb.	3,789,144	427,289	3,652,782	471,356
Javel concentrate of sodium hypochlorite for dilution .....		..	139,140	..	115,906
Kaolin or china-clay	lb.	10,299,014	195,302	8,894,310	202,742
Lanolin	"	274,789	117,239	250,278	109,838
Lead arsenate	"	17,500	3,539	..	..
Lead, basic carbonate, white, dry	"	1,049,007	198,202	1,229,908	218,467
Lead, basic carbonate, white, in oil	"	217,284	46,921	164,571	31,177
Lead, basic sulphate, white	"	163,605	29,898	151,026	27,261
Lead, pig	"	7,267,139	1,161,502	7,772,399	983,594
Lead, red	"	1,689,080	317,224	1,451,667	243,799
Lime:					
Hydrated	ton	12,618	132,352	13,838	151,893
Quick	"	23,249	383,132	32,061	513,053
Land plaster	"	676	10,731	310	8,181
Limestone	"	1,021,767	1,885,395	1,089,296	1,956,212
Litharge	lb.	2,774,460	488,145	2,707,793	406,380
Lithopone	"	2,757,069	263,700	2,127,529	193,660
Lumber	M bd. ft.	109	7,131	96	6,323
Magnesium oxide	ton	1,591	62,986	1,617	66,371
Magnesium sulphate (Epsom salts)	lb.	1,366,000	51,683	1,515,146	53,645
Malt extract	"	242,133	33,886	235,813	32,661
Meal, ivory nut and other	"	1,854,673	45,899	1,438,828	41,345
Menthol	"	24,647	139,115	23,444	126,001
Mercury metal	"	158,791	434,904	267,122	360,439
Methyl chloride	"	2,916,530	378,816	3,256,660	437,303
Mica, ground	"	2,196,612	148,784	1,912,073	133,272
Nitrocellulose or nitro cotton	"	5,058,213	1,584,367	3,590,535	1,194,768
Nitrogen solutions .....		..	2,573,223	..	2,408,403
Ochres, siennas and umbers	lb.	526,517	88,103	316,676	46,511
Oil:					
Castor	gal.	331,418	815,712	404,819	651,114
Castor dehydrated	"	107,404	305,260	96,288	228,731
Chinawood (tung)	lb.	4,318,437	851,255	3,816,068	688,096
Cocoonut	"	15,666,492	2,049,376	14,463,171	2,009,350
Cod	"	1,236,712	125,922	572,046	54,800
Cod liver	"	325,725	84,271	316,147	72,335
Essential and perfume .....		..	3,607,019	..	3,374,304
Fish	lb.	1,634,985	184,799	2,006,331	234,359
Linseed:					
Raw	gal.	1,067,967	1,502,703	1,055,267	1,649,025
Boiled and other	"	2,191,692	3,458,279	2,229,139	3,652,072
Polymerol					
Varnol	lb.	605,466	111,656	562,242	109,544
Mineral, other	"	197,119	44,768	341,833	74,086
Mineral, white	gal.	1,374,636	381,197	1,287,083	360,490
Neat's foot	lb.	3,405,342	368,763	2,974,898	345,519
Oiticica	"	528,342	78,073	426,413	75,074
Olive	"	70,287	12,863	49,761	9,857
Palm	"	30,408	12,976	21,681	7,075
Petroleum ink	gal.	1,392,534	342,865	1,357,173	330,086
Pine	lb.	553,398	80,754	531,079	65,900
Silicone	"	40,407	125,750	60,291	183,333
Soya bean	gal.	1,430,204	2,104,857	1,661,799	2,210,015
Tall	lb.	3,511,157	292,470	3,859,944	319,689
Other .....		..	1,193,707	..	1,341,220
Paradichlorobenzene	lb.	2,006,933	246,924	1,570,758	202,326
Pentasol	"	20,400	3,476	153	33
Petrolatum	"	1,087,114	115,404	1,254,496	143,160
Petroleum distillates	gal.	8,892,995	3,752,580	8,563,704	3,424,413
Penicillin .....		..	791,389	..	720,761
Phenacetin	lb.	192,745	203,956	151,228	151,723
Phenobarbital and other barbiturates	"	28,674	143,824	25,615	122,087
Phenol	"	24,907,911	4,190,415	24,373,115	4,163,275
Phosphorus, amorphous	"	49,057	19,309	34,240	18,425

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Continued

Item	1957		1958		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Phosphorous sesquisulphide.....	lb.	42,075	17,636	44,906	19,725
Phosphate rock.....	ton	698,481	9,235,597	699,140	9,176,937
Phthalic anhydride.....	lb.	15,418,768	2,685,649	16,804,327	2,721,308
Pigments, all colours and fillers, n.e.s.....	..	..	3,837,997	..	4,461,289
Pitch, coal tar.....	lb.	1,107,028	60,002	1,334,598	69,559
Plasticizers, n.e.s.....	"	4,430,092	1,279,586	5,036,563	1,403,483
Potassium bichromate.....	"	255,636	43,045	139,062	25,075
Potassium chlorate.....	..	1,035,492	130,550	1,029,820	142,861
Potassium chloride (muriate of potash).....	ton	124,784	4,620,248	120,877	4,361,548
Potassium hydroxide.....	lb.	2,851,719	220,069	3,318,560	239,747
Potassium iodide.....	"	36,519	52,800	26,596	41,598
Potassium magnesium sulphate.....	"	3,690,000	56,128	5,104,000	79,292
Potassium nitrate.....	"	318,856	25,431	755,741	55,263
Potassium perchlorate.....	"	126,896	22,324	91,836	17,087
Potassium sodium tartrate.....	"	14,904	4,093	14,660	3,713
Potassium sulphate.....	"	27,824,004	681,113	34,256,208	802,408
Powders, metallic (bronze, aluminum, etc.).....	"	1,208,420	615,101	1,145,551	603,769
Pyrethrum extract and powder.....	..	..	13,331	..	15,634
Pyrites.....	ton	176,122	1,569,723	232,763	2,133,596
Quartz and quartzite.....	"	39,315	190,266	36,382	185,837
Quebracho extract.....	lb.	52,215	6,558	40,774	5,858
Rapeseed.....	"	22,951,724	934,696	23,228,734	874,928
Resins and gums, natural.....	"	4,760,855 ^f	727,964	4,981,522	689,000
Resins, synthetic, other.....	"	51,418,355	11,723,811	56,799,492	12,356,000
Resins, phenolic.....	"	838,597	321,284	924,071	368,700
Rosin.....	..	..	1,000,234	..	1,006,000
Rubber:					
Chlorinated.....	lb.	233,251	123,384	252,578	147,276
Latex (including latex emulsion).....	"	12,286,924	2,435,445	14,249,733	2,627,813
Sawdust.....	"	811,087	9,591	697,579	6,906
Shellac:					
Orange.....	"	224,348	92,592	187,799	71,330
Bleached.....	"	1,397,675	841,633	1,432,632	672,645
Other.....	"	766,812	376,736	452,129	210,905
Silica sand.....	ton	41,871	570,217	42,712	596,527
Silver bullion.....	troy oz.	150,609	131,980	103,400	90,785
Sodium azide.....	lb.	8,135	9,824	7,172	10,172
Sodium benzoate.....	"	14,644	5,944	33,854	9,192
Sodium bicarbonate.....	"	1,732,836	71,249	1,908,170	73,495
Sodium bichromate.....	"	2,609,661	364,227	2,999,464	411,727
Sodium bromide.....	"	50,991	18,359	50,462	18,428
Sodium carbonate (soda ash).....	"	125,853,914	2,882,790	116,037,507	2,737,073
Sodium carboxymethylcellulose.....	"	872,891	230,350	951,469	249,159
Sodium chlorate.....	"	4,423,212	391,719	2,764,564	241,445
Sodium chloride (common salt) including brine.....	"	1,635,192,093	3,674,917	1,987,484,976	4,610,532
Sodium fluoride.....	"	372,875	43,694	282,086	33,799
Sodium hydroxide (caustic soda).....	"	112,679,310	3,922,400	128,683,171	4,362,769
Sodium metasilicate.....	"	3,283,005	187,037	2,717,152	121,089
Sodium nitrate (chile saltpetre).....	"	45,188,687	1,260,099	33,875,892	881,527
Sodium peroxide.....	"	99,894	21,435	87,723	18,795
Sodium phosphate (di).....	"	1,573,101	146,038	983,934	103,958
Sodium phosphate (tetra).....	"	791,521	73,419	90,039	11,400
Sodium phosphate (tri).....	"	9,174,231	557,291	8,951,611	561,871
Sodium salicylate.....	"	16,233	10,562	13,767	8,400
Sodium silicate (water glass).....	"	45,975,469	669,567	87,122,204	1,115,000
Sodium sulphate.....	"	2,837,775	66,882	1,730,748	44,000
Sodium sulphide.....	"	238,428	12,135	569,652	35,052
Solvents, n.e.s.....	gal.	3,929,175	2,652,978	4,260,913	3,228,007

TABLE 11. Materials Used in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Concluded

Item	1957		1958		
	Quantity	Cost at works \$	Quantity	Cost at works \$	
Soya beans	lb.	818,875,635	33,725,487	818,666,196	31,254,629
Starch:					
Corn	"	2,170,162	162,171	2,173,421	164,375
Other	"	792,124	65,333	650,714	59,913
Strontium nitrate	"	789,149	94,633	455,483	56,640
Strychnine	"	449	5,742	..	..
Sugar	"	5,355,127	515,474	4,969,894	421,767
Sulpha drugs	"	..	647,615	..	482,234
Sulphur (elemental)	ton	196,756	7,130,304	242,570	8,139,085
Sulphur dioxide	"	..	1,205,263	..	1,385,338
Sunflower seed	lb.	12,883,655	512,690	6,766,890	271,400
Superphosphate:					
18%	ton	32,297	716,135	45,991	1,051,041
20%	"	257,579	6,348,746	268,694	6,407,911
38-48%	"	40,055	2,365,024	42,910	2,570,410
Ammoniated, 3-18-0	"	3,008	132,251	367	12,853
Talc	lb.	24,319,865	634,962	30,151,791	702,733
Tallow, grease and other soap stock	"	86,187,231	6,382,491	66,892,399	6,595,398
Tar:					
Crude, coal	gal.	39,907,201	5,963,177	36,200,225	5,315,877
Water gas, crude	"	1,038,317	140,296	246,448	28,746
Titanium pigments, white	lb.	25,338,745	6,925,981	28,949,987	7,616,386
Titanium oxide, extended	"	29,299,514	3,117,678	31,030,933	3,352,758
Toluol	"	18,223,713	911,799	17,834,431	798,492
Trichlorethylene	"	85,736	11,068	232,659	33,133
Trinitrotoluol (TNT)	"	148,802	28,652	834,224	158,223
Turpentine	gal.	336,399	263,703	357,658	320,423
2,4-D	lb.	1,663,608	642,077	1,819,545	750,117
Urea crystals	"	10,505,764	569,578	13,840,913	783,413
Varnishes	gal.	833,818	1,763,408	866,591	1,815,460
Vitamins (A, B, C and D)	"	..	1,287,192	..	1,069,076
Wax:					
Beeswax	lb.	357,202	247,608	323,106	228,924
Candelilla	"	58,561	40,131	48,384	31,343
Carnauba	"	1,851,856	1,454,121	1,593,321	1,233,218
Ouricury	"	14,871	11,610	14,732	11,533
Paraffin, including slack wax	"	51,309,300	2,858,393	60,490,867	2,748,323
Synthetic	"	296,097	159,349	228,480	115,028
Other	"	1,543,366	515,196	1,572,758	525,685
Wood:					
Blocks and splints	"	..	653,207	..	860,623
Flour	lb.	2,290,977	58,912	2,076,149	57,639
Hardwood for distillation	cord	11,308	117,481	13,560	152,507
Pulp	lb.	42,293,922	4,036,354	45,305,415	4,449,980
Xylol	"	14,753,567	784,312	16,430,859	805,097
Yarns	"	847,204	354,612	821,721	323,549
Zinc dross .....	"	..	..	83,113	5,403
Zinc oxide:					
Pure	"	5,385,886	757,174	5,443,913	728,623
Leaded	"	550,696	89,208	505,030	74,770
Zinc spelter	"	17,394,550	1,915,650	17,718,504	1,736,672
Zinc stearate	"	84,051	32,005	97,329	36,558
Zinc sulphate	"	147,113	8,279	138,740	7,393
Containers and packing material	"	..	72,525,400	..	77,535,070
All other materials	"	..	213,318,877	..	228,371,054
Totals .....	...	...	565,746,391	...	589,315,994

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1957 and 1958

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	1957		1958	
	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.	195, 838, 372	7, 303, 939	180, 973, 230	6, 772, 394
Acid:				
Acetic, glacial, 99%	-	.	-	.
Crotonic	-	.	-	.
Fatty, other	4, 448, 183	740, 057	5, 845, 079	995, 983
Hydrochloric (muriatic) .....	..	1, 317, 621	..	1, 033, 896
Hydrofluosilicic	-	.	-	.
Monochloro acetic	-	.	-	.
Nitric:				
Commercial	-	.	-	.
C.P.	-	.	-	.
Oleic	-	.	-	.
Phosphoric	-	.	-	.
Stearic	-	.	-	.
Sulphuric:				
Commercial, 100% (for sale) lb.	2, 362, 520, 900	15, 969, 687	2, 882, 547, 000	22, 216, 678
C.P.	-	.	-	.
Aluminum chloride	-	.	-	.
Aluminum fluoride.....	-	.	-	.
Aluminum stearate	-	.	-	.
Aluminum sulphate	-	.	-	.
Ammonia:				
Anhydrous	-	.	-	.
Aqua	-	.	-	.
Ammonia powder	1b. 1, 280, 818	117, 360	1, 315, 990	133, 514
Ammonium chloride.....	-	.	-	.
Ammonium nitrate:				
Regular.....	-	.	-	.
Fertilizer compound	-	.	-	.
Ammonium phosphate (fertilizer)	-	.	-	.
Ammonium sulphate (fertilizer)	-	.	-	.
Ammonium sulphate (milled, screened and bagged only) ton	363	21, 464	488	29, 708
Anesthetics, other	-	.	-	.
Aniline oil	-	.	-	.
Automobile chemicals (brake fluid, tar remover, etc.) .....	..	2, 363, 499	..	3, 211, 174
Biological preparations and vaccines .....	..	6, 910, 297	..	8, 788, 324
Boiler compounds .....	..	3, 131, 267	..	3, 199, 677
Bone meal:				
Raw	1b. 3, 148, 000	111, 426	8, 492, 000	300, 056
Steamed .....	.. 4, 422, 000	149, 210	..	..
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,
1957 and 1958 - Continued

Item	1957		1958	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Carbon dioxide (in cylinders and solid)	-	*	-	*
Carboxymethylcellulose	-	*	-	*
Cellulose film	-	*	-	*
Cellulose sponges	-	*	-	*
Cement:				
Linoleum	gal. 968,300	464,235	976,833	472,157
Rubber	" 229,562	676,776	306,922	576,267
Other .....	..	1,011,889	..	904,270
Charcoal	ton 13,946	872,527	14,186	882,463
Chloride of lime	lb. 658,036	83,108	222,400	31,413
Chlorine liquid or gas	" 214,999,316	7,152,045	277,998,000	8,792,120
Chloroform	-	*	-	*
Cleaners:				
Toilet bowl .....	..	605,946 ^r	..	653,135
Drain pipe	lb. 1,578,942	261,516	1,970,381	297,763
Hand	" 4,140,838	724,891	4,607,446	741,546
Glass .....	..	196,749	..	182,016
Cleaning and scouring powder and paste	lb. 44,518,406	6,935,446	46,521,006	6,996,749
Cleaning preparations, other .....	..	3,403,617 ^f	..	3,994,912
Cobalt naphthenate	-	*	-	*
Coke, pitch	ton 5,395	128,303	8,155	163,278
Colours:				
Butter, cheese, etc.	-	*	-	*
Dry .....	..	3,069,508	..	3,976,993
In oils and japans	gal. 61,143	308,132	40,309	307,631
Copper naphthenate	-	*	-	*
Croton aldehyde	-	*	-	*
Cresol	-	*	-	*
Cryolite	-	*	-	*
Dentifrices, liquid, powder and paste .....	..	9,000,059	..	10,794,540
Detergents, synthetic	lb. 176,992,349	49,339,554	198,324,173	57,474,411
Dextrines	-	*	-	*
Dibutyl phthalate	-	*	-	*
Dichloroethyl ether	-	*	-	*
Dicyandiamide	-	*	-	*
Diocetyl phthalate	-	*	-	*
Disinfectants and deodorants (except for personal use) .....	..	1,960,836	..	2,139,264
Dressings and finishes, leather, except polish .....	..	1,548,295	..	1,636,164
Dyes:				
Leather .....	..	23,975	..	25,440
Embalming fluid .....	..	295,805	..	245,369
Ethylacetate	-	*	-	*
Ethylene oxide	-	*	-	*
Ethylene dichloride	-	*	-	*
Explosives and ammunition	-	*	-	*
Ferric chloride	-	*	-	*
Ferrophosphorus	-	*	-	*
Fertilizers, mixed	ton 716,397	36,573,967	747,067	39,656,970
Flavouring extracts .....	..	409,874	..	436,664
Flour bleaching compound	-	*	-	*
Fluorspar, flotation	-	*	-	*
Glue:				
Bone and hide	lb. 11,311,955	2,649,121	10,191,811	2,436,807
Casein	" 533,356	148,916	561,019	140,266
Fish	-	196,105	..	247,205
Flexible	lb. 2,668,561	624,473	2,715,410	638,122
Synthetic resin	" 35,631,469	5,266,636	35,050,054	5,260,876
Vegetable, dry	" 2,863,603	375,174	2,351,994	300,303
Vegetable, liquid	" 20,373,670	2,489,749	20,340,326	2,443,641
Other .....	..	849,685	..	1,194,892
Glycerine:				
Crude	lb. 1,321,833	248,564	1,756,371	333,743
Refined	" 11,963,935	3,592,271	12,375,629	3,715,915
Glycols:				
Ethylene	-	*	-	*
Diethylene	-	*	-	*
Triethylene	-	*	-	*

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group,
1957 and 1958 - Continued

Item	1957		1958	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Guanidine nitrate	—	•	—	•
Hydrogen chloride, anhydrous	—	•	—	•
Hydrogen peroxide, liquid	—	•	—	•
Inks:				
Newspaper	lb. 14,352,242	1,750,332	15,046,025	1,949,118
Letterpress	" 8,002,691	7,277,698	7,433,625	6,616,158
Lithographing	" 2,906,316	3,470,816	2,938,892	3,778,176
Stamping	" 119,000	134,142	126,580	143,605
Other printing	" 4,794,613	2,176,948	5,133,738	2,135,253
Writing:				
Liquid .....	..	350,576	..	342,787
Powder and pellets .....	..	6,436	..	2,600
Insecticides, other:				
Agricultural dusts and sprays, not specified elsewhere .....	..	1,601,093	..	2,100,586
Fly spray .....	..	104,677	..	184,332
Gopher poison .....	..	6,109	..	6,429
Rat and mouse poison .....	..	205,760	..	254,642
Other household .....	..	1,501,236	..	2,685,682
Livestock spray and powder .....	..	75,981	..	86,328
Iron oxide pigments, synthetic	—	•	—	•
Iron naphthenate	—	•	—	•
Isobutylene	—	•	—	•
Javel water .....	..	9,913,573	..	10,084,384
Lacquers	gal. 2,735,481	8,215,287	2,752,935	8,505,666
Lead acetate	—	•	—	•
Lead arsenate	—	•	—	•
Lead naphthenate	—	•	—	•
Lead oxide:				
Red	—	•	—	•
Litharge	—	•	—	•
Lead, white:				
Dry	—	•	—	•
Ground in oil	—	•	—	•
Lecithin	—	•	—	•
Lighter fluid .....	..	257,262	..	263,459
Magnesium stearate	—	•	—	•
Manganese naphthenate	—	•	—	•
Matches:				
In books	No. of books 592,311,068	1,907,305	641,011,856	2,195,680
Other	—	—	—	—
Medicinals and pharmaceuticals, other .....	..	95,760,310	..	106,569,863
Muriate of potash (fertilizer):				
Milled, screened and bagged only	ton 2,946	158,604	3,393	196,176
Naphthalene	—	•	—	•
Nickel salts	—	•	—	•
Nitrous oxide	—	•	—	•
Nitrobenzol	—	•	—	•
Oil, sulphonated:				
Castor	lb. 511,590	82,341	597,641	94,678
Cocanut	" 173,601	21,529	102,761	15,195
Cod	" 441,267	54,699	414,623	51,086
Neat's foot	" 179,247	33,042	166,732	31,714
Other blends	" 3,304,727	340,345	2,374,543	281,120
Oil:				
Castor, dehydrated	—	•	—	•
Cocanut, crude	—	•	—	•
Core	lb. 3,484,500	481,804	3,212,282	454,606
Cresote	gal. 11,984,155	3,188,592	9,756,092	2,635,062
Lard	—	•	—	•
Linseed:				
Boiled	" 316,426	502,781	362,366	573,782
Processed	" 2,779,183	3,882,003	2,768,484	3,968,692
Raw (sold as such)	" 4,854,205	5,771,637	4,488,105	5,131,683
Neat's foot, cold-pressed	—	•	—	•
Soya bean, crude	ton 70,240	19,625,663	62,097	16,118,599
Soya bean, processed	" 3,254	924,178	4,735	1,242,512
Stand, blown and enamel	gal. 48,594	50,052	52,229	53,796
Sunflower, crude	—	•	—	•
Other .....	..	2,178,959	..	2,084,042
Oilcake and oilcake meal:				
Cocanut	—	•	—	•
Linseed	ton 60,735	4,075,566	60,175	3,835,886
Soya bean	" 329,526	20,471,289	324,975	19,818,822
Sunflower	—	•	—	•

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Continued

Item	1957		1958		
	Quantity	Selling value at works \$	Quantity	Selling value at works \$	
Oxygen in cylinders or delivered by pipeline	cu ft.	1,090,809,299	9,481,915	968,252,173	8,833,628
Paint:					
Paste paints (not including water-paste paints)	lb.	2,012,216	457,191	1,542,463	361,190
Semi-paste paints (not including water-thinned type)	Imp. gal.	64,135	179,022	326,286	1,396,582
Ready mixed paints and enamels—					
Exterior type	"	8,933,582	35,459,510	9,825,843	41,003,131
Interior type	"	11,547,887	50,188,431	11,444,445	51,526,861
Water-thinned paints and enamels					
Latex base emulsion paints	"	2,742,897	10,949,338	3,092,903	12,554,017
Resins and other bases emulsion paints (paste and semi-paste)	"	372,854	1,197,546	480,304	1,403,674
Casein and other protein bound, glue bound					
Dry	lb.	1,131,472	125,465	931,321	119,494
Paste and semi-paste	Imp. gal.	22,588	48,071	13,574	31,508
Plastic texture, paste and dry	lb.	254,350	24,095	271,506	26,865
Calcimines	"	765,122	85,720	759,649	95,950
Lime and cement bound	"	2,388,154	227,995	1,761,887	240,739
Other water-thinned paints	"	606,136	54,298	1,062,623	135,421
Insulating varnishes, electrical types	Imp. gal.	758,109	755,012	1,557,098	925,289
Dopes, cellulose nitrate and other dopes	"	16,000	45,671	..	..
Paint and varnish remover	"	180,783	524,030	155,345	487,351
Paraldehyde	—	—	—	—	—
Parathion	—	—	—	—	—
Paste:					
Dry powder .....	..	..	157,261	..	202,169
Liquid, including mullage .....	..	..	277,900	..	449,348
Penicillin	—	—	—	—	—
Penicillin preparations .....	..	..	3,436,242	..	3,485,102
Pentazol acetate	—	—	—	—	—
Perchloroethylene	—	—	—	—	—
Phenol	—	—	—	—	—
Phenothiazine	—	—	—	—	—
Phosphorus:					
Amorphous	—	—	—	—	—
Yellow	—	—	—	—	—
Phenacetin	—	—	—	—	—
Phosphorous sesquisulphide	—	—	—	—	—
Phthalic anhydride	—	—	—	—	—
Patching material:					
For walls	lb.	5,451,828	497,219	11,895,007	1,081,865
For floors	"	665,117	110,431	584,700	142,086
Pitch, coal tar	ton	120,680	5,354,758	114,498	4,707,497
Polish:					
Automobile (including wax) .....	..	..	678,365	..	843,257
Brass .....	..	..	102,203	..	100,639
Furniture .....	..	..	1,208,458	..	1,322,980
Shoe and shoe dressing .....	..	..	1,291,264	..	1,361,434
Silver .....	..	..	182,504	..	228,710
Stove .....	..	..	34,866	..	24,790
Other .....	..	..	331,606	..	327,353
Polyethylene film	—	—	—	—	—
Polyvinyl alcohol	—	—	—	—	—
Potassium chlorate	—	—	—	—	—
Putty	lb.	12,632,733	1,093,860	15,688,981	1,580,281
Railway signal bombs and signal boxes	—	—	—	—	—
Resins, synthetic	1	1	1	1	1
Rollers, printers' .....	..	..	763,927	..	830,032
Rust preventives .....	..	..	656,737	..	561,540
Rubber plasticizers and accelerators	—	—	—	—	—
Rubber, synthetic	lb.	290,351,068	65,988,164	299,185,191	67,351,381
Sex hormones .....	..	..	2,746,212	..	3,017,526
Size .....	..	..	1,746,741	..	2,079,060

¹ See Table 5. Census of Industry bulletin "The Primary Plastics Industry" for available information on synthetic resins.

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Continued

Item	1957		1958	
	Quantity	Selling value at works \$	Quantity	Selling value at works \$
Soap:				
Castile	lb. 548, 171	104, 157	351, 849	53, 509
Chips and flakes:				
Household packages	" 5, 535, 756	1, 484, 881	5, 085, 936	1, 348, 677
Bulk (including textile and mill)	" 12, 962, 441	1, 562, 595	12, 435, 868	1, 570, 620
Laundry, bar:				
Household:				
Built	" 1, 284, 924	144, 058	1, 023, 186	115, 677
Not built	" 13, 978, 259	2, 363, 537	14, 338, 040	2, 408, 571
Liquid	" 15, 432, 662	2, 070, 934	13, 968, 325	1, 978, 004
Powder:				
Household packages	" 33, 001, 134	7, 646, 134	29, 714, 748	7, 160, 864
Bulk	" 10, 766, 309	1, 540, 820	10, 684, 289	1, 401, 564
Shaving cream:				
Lather	" 1, 132, 451	1, 575, 769	1, 023, 715	1, 392, 394
Brushless	" 338, 225	353, 743	455, 097	516, 032
Other	" 299, 544	293, 816	261, 685	247, 802
Soft, paste and jelly	" 2, 723, 601	310, 566	3, 307, 439	316, 776
Toilet, bar	" 40, 360, 265	13, 648, 104	40, 954, 270	14, 637, 126
Other	" 3, 247, 060	498, 630	2, 755, 104	375, 115
Sodium acid pyrophosphate	-	.	-	.
Sodium arsenate	-	.	-	.
Sodium arsenite	-	.	-	.
Sodium azide	-	.	-	.
Sodium benzoate	-	.	-	.
Sodium carbonate:				
Soda ash	-	.	-	.
Sal soda	-	.	-	.
Sodium chlorate	-	.	-	.
Sodium cyanide	-	.	-	.
Sodium fluoride	-	.	-	.
Sodium hydrosulphide	-	.	-	.
Sodium hydroxide (caustic soda) (for sale)	lb. 354, 720, 639	11, 078, 323	428, 374, 000	12, 855, 708
Sodium hypochlorite	-	.	-	.
Sodium (di) phosphate	-	.	-	.
Sodium (tetra) phosphate, anhydrous	-	.	-	.
Sodium (tri) phosphate	-	.	-	.
Sodium (mono) phosphate	-	.	-	.
Sodium metabisulphite	-	.	-	.
Sodium silicate	-	.	-	.
Sodium stearate	-	.	-	.
Sodium sulphamethazine	-	.	-	.
Sodium sulphite, anhydrous	-	.	-	.
Sodium thiosulphite	-	.	-	.
Sodium tripolyphosphate	-	.	-	.
Soldering flux	-	.	-	.
Stains (oil spirit, varnish, etc.)	gal. 413, 183	1, 082, 259	301, 190	1, 040, 378
Starches, blended	-	.	-	.
Stearine	-	.	-	.
Streptomycin	-	.	-	.
Streptomycin preparations .....	..	299, 123	..	379, 656
Sulphur dioxide, liquid	-	.	-	.
Styrene	-	.	-	.
Superphosphate fertilizer:				
Actually made	-	.	-	.
Milled, screened and bagged, only	ton 11, 487	447, 746	14, 853	617, 584
Sweeping compounds .....	..	956, 434	..	984, 124
2-ethylhexanol	-	.	-	.
Tankage	ton 580	2, 898	..	..
Tanners' bate	-	.	-	.
Tar, refined	gal. 2, 346, 469	672, 733	3, 213, 996	700, 338
Textile and leather finishes .....	..	3, 806, 407	..	4, 485, 853
Thinners, for lacquers, paints and enamels	gal. 2, 464, 043	3, 640, 569	2, 798, 105	4, 034, 054
Toilet preparations (except dentifrices) .....	..	52, 297, 553	..	54, 575, 007
Trichlorethylene, crude	-	.	-	.
Turpentine	-	.	-	.

TABLE 12. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1957 and 1958 - Concluded

Item	1957		1958	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Toluene	—	•	—	•
Vanillin	—	•	—	•
Varnishes (Japans, shellac, etc.) gal.	3,681,064	9,253,317	4,365,362	10,655,299
Veterinary medicines .....	..	2,531,262	..	2,649,318
Vinyl acetate	—	•	—	•
Vitamin preparations .....	..	15,750,425	..	16,377,241
Washing blue	—	•	—	•
Washing compounds, other .....	..	2,758,247	..	2,116,717
Wax, floor:				
Paste	lb.	8,480,155	8,582,042	3,316,951
Liquid	gal.	4,261,211	4,335,852	12,307,293
Wax, sealing	—	•	—	•
Wax, paraffin, refined	—	•	—	•
Weed killer .....	..	2,897,322	..	2,342,635
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).....	..	475,582,570	..	512,494,847
Totals .....	...	1,203,411,197	...	1,293,331,692

TABLE 13. Imports into Canada and Exports of Chemicals and Allied Products, 1920-58
(Values in thousands 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
1956	288,586	22,839	7.9	250,365	86.6
1957	293,821	23,168	7.9	252,947	86.1
1958	290,358	23,553	8.1	246,950	85.1
(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
1956 ¹	182,854	21,283	11.6	84,975	46.4
1957	195,303	28,480	14.5	77,963	39.9
1958	197,051	35,752	18.1	79,399	40.3

¹ Revised. Uranium ores and concentrates excluded from 1956 and subsequent years.

TABLE 14. Fuel and Electricity Used in the Manufacture of Chemicals and Allied Products in Canada, by Industries and by Provinces, 1958

No.		Bituminous coal		Sub-bituminous coal from Alberta mines only	Anthracite coal	Lignite coal	Coke (for fuel only)	Gasoline (including gasoline used in cars and trucks)
		From Canadian mines	Imported					
		tons						Imp. gal.
	(a) By industries							
1	Acids, alkalies and salts:							
2	Quantity	9,405	286,982	—	111	—	299	374,276
3	Cost	110,079	2,824,183	—	2,076	—	6,451	129,827
4	Fertilizers:							
5	Quantity	6,732	50,197	—	49	—	160	284,522
6	Cost	61,889	503,062	—	1,022	—	3,481	94,633
7	Medicinals and pharmaceuticals:							
8	Quantity	976	4,289	—	131	46	99	279,795
9	Cost	14,275	54,554	—	2,508	273	1,422	126,018
10	Paints and varnish:							
11	Quantity	1,100	3,810	—	98	252	480	154,816
12	Cost	16,936	42,110	—	1,551	1,470	9,907	65,950
13	Primary plastics:							
14	Quantity	21,891	4,236	—	—	—	—	121,288
15	Cost	258,483	49,962	—	—	—	—	46,766
16	Soaps, washing compounds and cleaning preparations:							
17	Quantity	195	61,835	—	1,847	267	—	203,327
18	Cost	2,900	618,085	—	25,072	1,888	—	87,559
19	Toilet preparations:							
20	Quantity	—	1,355	—	93	—	—	39,897
21	Cost	—	18,943	—	1,264	—	—	17,101
22	Vegetable oils:							
23	Quantity	1,431	15,687	—	—	167	—	38,908
24	Cost	18,851	172,425	—	—	1,216	—	16,433
25	Inks:							
26	Quantity	—	602	164	—	—	—	46,361
27	Cost	—	7,028	2,036	—	—	—	19,707
28	Adhesives:							
29	Quantity	—	25,605	—	—	—	6	96,148
30	Cost	—	271,813	—	—	—	111	35,515
31	Polishes and dressings:							
32	Quantity	—	1,154	—	—	—	27	45,852
33	Cost	—	16,896	—	—	—	660	19,110
34	Compressed gases:							
35	Quantity	6	18	—	301	—	—	96,487
36	Cost	51	293	—	4,553	—	—	37,308
37	Coal tar distillation:							
38	Quantity	1,168	14,958	—	—	—	—	38,000
39	Cost	17,520	179,496	—	—	—	—	16,000
40	Miscellaneous chemical products:							
41	Quantity	18,706	578,521	—	638	443	8,737	463,600
42	Cost	225,133	4,682,615	—	11,096	2,911	67,918	155,991
	(h) By provinces							
43	Newfoundland:							
44	Quantity	—	—	—	—	—	—	4,565
45	Cost	—	—	—	—	—	—	2,014
46	Prince Edward Island:							
47	Quantity	—	—	—	—	—	—	6,400
48	Cost	—	—	—	—	—	—	2,630
49	Nova Scotia:							
50	Quantity	1,652	—	—	49	—	—	18,096
51	Cost	24,530	—	—	766	—	—	6,717
52	New Brunswick:							
53	Quantity	48	—	—	59	—	125	22,250
54	Cost	1,056	—	—	1,192	—	2,781	7,096
55	Quebec:							
56	Quantity	52,721	14,293	—	364	—	33	702,218
57	Cost	632,151	215,060	—	7,741	—	784	277,025
58	Ontario:							
59	Quantity	1,656	1,034,706	—	2,796	—	9,402	1,366,646
60	Cost	21,688	9,222,264	—	39,443	—	81,225	512,113
61	Manitoba:							
62	Quantity	890	48	164	—	1,175	248	43,896
63	Cost	13,181	648	2,036	—	7,758	5,160	17,759
64	Saskatchewan:							
65	Quantity	6	—	—	—	—	—	—
66	Cost	51	—	—	—	—	—	—
67	Alberta:							
68	Quantity	—	—	—	—	—	—	71,359
69	Cost	—	—	—	—	—	—	24,797
70	British Columbia:							
71	Quantity	4,637	302	—	—	—	—	46,897
72	Cost	33,460	3,493	—	—	—	—	17,452
73	Yukon:							
74	Quantity	—	—	—	—	—	—	900
75	Cost	—	—	—	—	—	—	315

Note: Cost=Laid down value of materials at plant in Canadian dollars.

TABLE 14. Fuel and Electricity Used in the Manufacture of Chemicals and Allied Products in Canada, by Industries and by Provinces, 1958

Fuel oil including kerosene or coal oil (not including lubricating oil)	Wood (cords of 128 cubic ft. of piled wood)	Gas			Other fuel	Electricity		Steam purchased	Total	No.
		Liquefied petroleum gases (propane etc.)	Other manufactured gas	Natural gas		Purchased	Generated for own use			
Imp. gal.	cords	Imp. gal.	M cu. ft.			kwh.		pound	\$	
17,538,876	2	53,318	1,186,897	8,553,319	..	3,678,890,699	110,618,248	3,416,733,315	..	1
1,666,536	40	13,549	637,368	1,310,563	378,460	15,097,130	..	2,386,792	24,563,054	2
790,645	--	3,667	--	1,511,217	..	1,221,603,003	2,004,000	..	..	3
109,269	--	1,406	--	207,320	2,298	2,296,715	..	..	3,281,095	4
4,750,217	--	4,880	1,104	35,085	..	30,614,939	--	128,000	..	5
467,273	--	1,884	1,142	36,926	5,092	319,915	--	2,128	1,033,410	6
3,184,955	7	15,155	100	32,582	..	25,599,107	--	9,244,450	..	7
369,753	99	4,296	109	36,459	7,863	366,641	--	14,955	937,899	8
2,593,315	--	55,499	2,888	2,871,111	..	190,266,227	18,275,303	1,299,051,816	..	9
257,013	--	13,203	2,995	401,994	33,938	747,525	..	1,020,176	2,832,055	10
1,505,498	17	32,661	--	100,669	..	39,287,660	42,852	80,000,000	..	11
190,436	261	8,507	--	75,706	8,328	383,424	..	83,968	1,466,134	12
579,451	--	2,500	--	6,895	--	3,851,875	--	1,612,554	..	13
74,566	--	1,064	--	8,140	--	60,718	--	4,038	185,834	14
1,786,919	--	--	--	15,175	--	30,120,118	--	151,861,800	..	15
171,647	--	--	--	4,775	--	248,390	--	184,925	818,662	16
237,296	--	--	162	8,535	..	4,457,691	--	--	..	17
35,029	--	--	170	9,878	6,084	78,320	--	--	158,252	18
117,174	10	870	--	3,962	..	4,813,960	1,288,000	6,045,900	..	19
99,079	200	329	--	4,212	381	57,392	..	8,995	439,027	20
368,466	--	--	1,000	1,540	--	3,065,396	--	3,545,900	..	21
47,218	--	--	1,100	1,345	--	38,150	--	5,995	130,474	22
661,423	--	--	1,397	13,442	--	76,705,585	--	--	..	23
99,658	--	--	1,474	5,748	--	620,358	--	--	769,443	24
3,130,390	--	--	290,000	--	--	13,600,300	--	--	..	25
358,014	--	--	80,828	--	--	94,630	--	--	744,488	26
15,098,518	2,515	15,773	4,345,108	252,360	..	109,807,483	132,301,369	186,273,810	..	27
1,464,925	12,675	4,910	2,273,134	99,490	6,559	1,016,395	..	222,668	10,246,420	28
52,944	--	300	--	--	--	425,806	--	--	..	29
7,816	--	87	--	--	--	11,870	--	--	21,787	30
6,400	--	--	--	--	--	178,000	--	--	..	31
1,228	--	--	--	--	--	3,937	--	--	7,795	32
439,303	--	--	--	--	--	2,694,208	--	--	..	33
58,233	--	--	--	--	--	55,977	--	--	146,223	34
292,701	--	--	--	--	--	1,689,569	--	--	..	35
28,479	--	--	--	--	--	36,024	--	--	76,628	36
31,531,452	22	53,054	161,703	6,557	..	1,934,965,786	308,098	970,066,970	..	37
2,837,955	260	15,459	76,610	7,353	10,146	7,797,436	..	697,975	12,575,955	38
19,122,218	2,521	105,777	5,666,721	736,050	..	2,141,952,546	169,705,323	4,118,147,620	..	39
2,292,489	12,919	27,925	2,921,466	483,333	421,921	10,593,501	..	3,162,292	29,792,599	40
483,895	--	--	232	2,098	..	5,844,109	--	2,156,000	..	41
44,286	--	--	224	1,937	3,252	83,350	--	3,424	183,015	42
4,114	--	--	--	10,498	..	1,795,296	--	25,000	..	43
682	--	--	--	3,795	849	31,312	--	350	37,039	44
16,402	--	--	--	12,166,179	..	219,088,834	94,516,351	200,000	..	45
3,206	--	--	--	1,501,160	2,962	1,184,373	..	2,448	2,718,946	46
789,714	8	25,192	--	484,510	..	1,123,558,935	--	63,902,055	..	47
98,042	96	5,677	--	204,978	9,673	1,598,504	--	68,151	2,036,526	48
--	--	--	--	--	--	472,954	--	--	..	49
--	--	--	--	--	--	9,419	--	--	9,734	50

Note: Data in this table relate only to establishments generally reporting value of factory shipments of \$100,000 and over. For total value of fuel and electricity used (including estimates for small firms) see tables 1 and 2.



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**TABLE 15. Power and Equipment Total Horsepower Rating of Equipment in Use
or Available for Use at the End of 1958**

Type of equipment	Driving generators	Not driving generators
	horsepower	
Prime movers:		
Steam engines	1,822	36,780
Steam turbines	53,193	17,709
Diesel engines	15,249	5,629
Gasoline, gas and oil engines, other than diesel engines	18,359	38,010
Hydraulic turbines or water wheels	11,100	350
Totals	99,723	98,478
Electric motors (one-quarter horsepower and over)	—	586,163