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# CHEMICALS AND ALLIED PRODUCTS

## 1959

General Review

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*Canada*  
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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.

**A - Annual      B - Biennial      M - Monthly      S.C. - Special Compilation**

Catalogue number	Title	Price
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
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31-201	General Review of the Manufacturing Industries (A)	2.00
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## EXPLANATORY NOTES

This report is one in a series of about 130 publications which present the results of the 1959 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 1959 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.<sup>1</sup>

### **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**

Between 1949 and 1957, in an effort to ease the reporting burden for smaller firms, a short form was used asking for the total value of shipments only or, in a few cases where losses of detail were significant, for quantities and values of principal products. For purposes of publication, missing data were estimated on the basis of appropriate ratios. In general the cut-off point for these short forms was set at \$50,000 value of shipments. About 40% of the total number of establishments reported on the short form and accounted for less than 3 per cent of the total value of shipments.

In 1958, in order to establish a new base year, the small firms were asked to report all items of principal statistics together with some detail on materials and products.

<sup>1</sup> 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*.

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form.

The intermediate and long forms provide complete data for the compilation of all elements of principal industry statistics and the details of materials and products. The one-page short form, although containing data on principal products and total value of shipments, does not request information on other elements of principal statistics such as value of inventories, materials, fuel and electricity and, in most cases, employment and salaries and wages, nor does it contain detailed data on volume and value of materials used. For purposes of compiling aggregates of principal statistics by industry and by geographic location, the missing data for each establishment were estimated for 1959 by using, in general, ratios based on the change in the value of shipments between 1958 and 1959. The proportion of the estimated data was generally less than 5 per cent of the total in each category of principal statistics.

The general request for the principal items of products on the short form for 1959 permitted a fairly complete compilation of the detailed quantities and values of commodity shipments. In the case of the detailed quantities and values of materials, fuel and electricity, however, and the monthly distribution of production workers, only the totals of data actually reported on the intermediate and long forms are contained in published reports and no attempt was made as in past years to estimate the generally small proportion of individual totals represented by detailed items omitted from the short forms.

The new approach has relieved an additional 12,000 establishments from filling out the regular long form. Establishments now receiving the short form number in excess of 20,000 and account for more than 54 per cent of the total number of establishments and a little more than 3 per cent of the total value of shipments.

# CHEMICAL AND ALLIED PRODUCTS

1959

## General Review

Production of chemicals and allied products totalled \$1,378.2 millions in 1959 compared with \$1,293.3 millions in 1958, an increase of about 6.6 per cent. The net value of production, or the value added by manufacturing, also advanced, the \$701.4 millions in 1959 being 5.5 per cent higher than the \$664.8 millions in 1958.

Factory shipments by industries were as follows, in millions of dollars; acids, alkalies and salts, \$297.4; fertilizers, \$96.2; medicinals and pharmaceuticals, \$164.7; paints and varnishes, \$148.6; primary plastics, \$103.5; soaps, washing compounds and cleaning preparations, \$137.0; toilet preparations, \$54.5; vegetable oils, \$57.6; inks, \$19.4; adhesives \$14.6; polishes and dressings, \$24.7; compressed gases, \$27.0; coal tar distillation, \$13.2; miscellaneous chemical products, \$219.0.

In the entire group there were 1,137 plants in 1959 with approximately 54,782 employees and an aggregate payroll of \$243 millions. The 550 plants in Ontario accounted for 57.8 per cent of the production and 50.2 per cent of the employees, and the 367 plants in Quebec accounted for about 30.2 per cent of the total output and 38.9 per cent of the workers. The other provinces with 220 plants accounted for about 12.0 per cent of the total Canadian production. Materials used in manufacturing processes cost \$627.3 millions and fuel and electricity cost \$50.6 millions.

The exports of chemicals and allied products showed an increase in 1959, the value of \$201.9 millions being about 2.5 per cent higher than the \$197.0 millions in 1958. Exports to the United States amounted to \$85.6 millions or 42.4 per cent of the total shipped to all foreign countries.

Imports at \$327 millions increased about 1.1 per cent from the \$290.3 millions reported in 1958. About 84.1 per cent of the imports came from the United States while the United Kingdom accounted for about 8.0 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.

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### 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.
- † revised figures.



TABLE 1. Principal Statistics for the Chemicals and Allied Products Group, by Industries, 1958 and 1959

Industry	Establishments	Employees	Salaries and wages for year	Cost of fuel and electricity at works	Cost of materials at works	Value added by manufacture <sup>1</sup>	Selling value of products at works
	number		dollars				
<b>1958</b>							
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	7,486,955	9,837,464	17,481,629
Adhesives .....	28	642	2,556,561	439,027	7,120,720	6,872,624	14,380,563
Polishes and dressings .....	43	833	3,301,694	139,841	10,705,496	13,608,383	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
<b>Totals .....</b>	<b>1,143</b>	<b>54,570</b>	<b>233,819,330</b>	<b>47,836,871</b>	<b>589,315,994</b>	<b>664,853,235</b>	<b>1,293,331,692</b>
<b>1959</b>							
Acids, alkalis and salts .....	57	10,452	53,527,783	27,985,958	127,361,965	142,409,802	297,482,108
Fertilizers .....	45	3,001	13,804,715	3,355,005	50,470,120	40,732,905	96,278,304
Medicinals and pharmaceuticals .....	188	8,146	31,133,539	1,074,857	48,510,551	116,977,106	164,733,036
Paints and varnishes .....	134	6,340	26,624,119	966,187	72,959,855	74,316,626	148,618,625
Primary plastics .....	34	3,469	17,079,990	3,330,095	57,802,935	43,779,167	103,538,744
Soaps, washing compounds and cleaning preparations .....	134	4,029	18,371,984	1,481,707	57,140,830	76,921,806	137,077,986
Toilet preparations .....	82	2,605	8,249,904	202,010	19,949,461	35,023,620	54,536,984
Vegetable oils .....	10	625	2,853,314	845,281	46,989,078	9,914,597	57,677,128
Inks .....	44	1,067	4,457,342	180,053	8,548,391	10,789,590	19,475,905
Adhesives .....	31	629	2,683,622	370,512	7,597,580	6,807,070	14,638,817
Polishes and dressings .....	42	832	3,466,167	146,707	10,922,806	13,874,170	24,723,562
Compressed gases .....	57	1,504	6,658,087	987,416	4,536,655	21,594,318	27,075,869
Coal tar distillation .....	8	491	2,752,373	747,643	7,647,291	4,849,644	13,267,439
Miscellaneous chemical products .....	271	11,592	51,554,787	8,898,828	106,928,274	103,489,578	219,086,477
<b>Totals .....</b>	<b>1,137</b>	<b>54,782</b>	<b>243,217,726</b>	<b>50,592,259</b>	<b>627,365,792</b>	<b>701,479,999</b>	<b>1,378,211,040</b>

<sup>1</sup> See note to text.

TABLE 2. Principal Statistics for the Chemicals and Allied Products Group, by Provinces, 1958 and 1959

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				
<b>1958</b>							
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	159,660	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	89,235,785	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 .....	101	2,556	11,068,820	2,072,443	30,146,293	35,388,029	66,350,164
<b>Canada .....</b>	<b>1,143</b>	<b>54,570</b>	<b>233,819,330</b>	<b>47,836,871</b>	<b>589,315,994</b>	<b>664,853,235</b>	<b>1,293,331,692</b>
<b>1959</b>							
Newfoundland .....	5	74	258,844	23,279	849,581	957,356	1,796,284
Prince Edward Island and Nova Scotia .....	18	317	1,081,140	166,795	4,438,539	3,627,511	8,150,904
New Brunswick .....	8	146	501,672	68,475	2,950,369	1,893,146	4,881,349
Quebec .....	367	21,291	92,521,405	13,292,465	183,844,811	217,574,351	415,798,385
Ontario .....	550	27,489	124,769,234	31,609,312	373,064,848	395,245,763	797,209,029
Manitoba .....	35	740	2,599,739	202,738	9,748,035	8,603,604	18,340,750
Saskatchewan .....	10	201	959,660	43,602	3,279,648	1,911,647	5,256,266
Alberta .....	40	1,911	8,939,643	2,867,218	20,344,989	33,643,974	57,544,841
British Columbia and Northwest Territories .....	104	2,613	11,586,389	2,318,375	28,844,972	38,022,647	69,233,233
<b>Canada .....</b>	<b>1,137</b>	<b>54,782</b>	<b>243,217,726</b>	<b>50,592,259</b>	<b>627,365,792</b>	<b>701,479,999</b>	<b>1,378,211,040</b>

TABLE 3. Inventories<sup>1</sup> in the Chemical and Allied Products Group, by Industries, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Acids, alkalies and salts .....	21,620,905	4,135,671	17,650,040	43,406,616
Fertilizers .....	11,457,249	5,169,061	10,966,624	27,592,934
Medicinals and pharmaceuticals .....	11,830,168	6,176,838	11,839,018	29,846,024
Paints and varnishes .....	9,609,709	1,890,765	14,024,098	25,524,572
Primary plastics .....	6,563,709	1,188,887	5,554,386	13,306,982
Soaps, washing compounds and cleaning preparations .....	7,686,487	1,580,577	10,524,484	19,791,548
Toilet preparations .....	4,825,422	374,202	3,255,098	8,455,722
Vegetable oils .....	7,486,739	89,441	2,428,136	10,004,316
Inks .....	1,254,174	268,917	868,994	2,402,085
Adhesives .....	1,066,520	65,187	1,094,593	2,226,300
Polishes and dressings .....	1,906,691	143,157	1,215,944	3,265,792
Compressed gases .....	738,969	..	179,559	918,528
Coal tar distillation .....	657,412	43,288	1,299,059	1,999,759
Miscellaneous chemical products .....	36,086,058	11,847,998	12,688,034	60,622,090
<b>Totals .....</b>	<b>122,800,212</b>	<b>32,973,989</b>	<b>93,589,067</b>	<b>249,363,268</b>
Closing:				
Acids, alkalies and salts .....	20,219,896	4,420,603	17,640,725	42,281,224
Fertilizers .....	9,919,585	6,165,426	8,249,985	24,334,996
Medicinals and pharmaceuticals .....	12,054,432	6,898,307	12,947,027	31,899,766
Paints and varnishes .....	9,953,657	2,181,119	13,377,787	25,512,563
Primary plastics .....	7,367,019	850,592	7,266,134	15,483,745
Soaps, washing compounds and cleaning preparations .....	6,717,151	1,414,480	9,156,938	17,288,569
Toilet preparations .....	4,732,698	362,524	3,905,883	9,001,105
Vegetable oils .....	8,648,427	110,779	2,478,626	11,237,832
Inks .....	1,556,219	286,089	893,951	2,736,259
Adhesives .....	1,212,092	5,365	1,290,760	2,508,217
Polishes and dressings .....	1,946,428	111,782	1,467,440	3,525,650
Compressed gases .....	786,297	..	222,079	1,008,376
Coal tar distillation .....	607,726	20,295	1,299,141	1,927,162
Miscellaneous chemical products .....	31,153,932	11,311,714	13,454,525	55,920,171
<b>Totals .....</b>	<b>116,875,559</b>	<b>34,139,075</b>	<b>93,651,001</b>	<b>244,665,635</b>

<sup>1</sup> See footnote to Table 4.TABLE 4. Inventories<sup>1</sup> in the Chemical and Allied Products Group, by Provinces, 1959

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland .....	209,206	4,399	121,023	334,628
Prince Edward Island and Nova Scotia .....	873,128	353,706	951,178	2,178,012
New Brunswick .....	414,806	575,740	17,041	1,007,587
Quebec .....	45,749,134	14,951,384	28,409,649	89,110,167
Ontario .....	60,693,732	16,144,721	49,373,521	126,211,974
Manitoba .....	1,304,714	173,765	1,444,657	2,923,136
Saskatchewan .....	807,260	..	271,140	1,078,400
Alberta .....	4,526,280	439,417	5,980,597	10,946,294
British Columbia and Northwest Territories .....	8,221,952	330,857	7,020,261	15,573,070
<b>Canada .....</b>	<b>122,800,212</b>	<b>32,973,989</b>	<b>93,589,067</b>	<b>249,363,268</b>
Closing:				
Newfoundland .....	222,388	2,982	156,372	381,742
Prince Edward Island and Nova Scotia .....	872,261	452,367	934,458	2,259,086
New Brunswick .....	404,751	594,021	29,401	1,028,173
Quebec .....	40,516,365	13,956,345	28,317,930	82,790,640
Ontario .....	61,070,628	17,954,924	50,274,212	129,299,764
Manitoba .....	1,387,340	292,834	1,539,215	3,219,389
Saskatchewan .....	812,280	1,000	248,771	1,062,051
Alberta .....	4,138,266	532,523	5,198,831	9,869,620
British Columbia and Northwest Territories .....	7,451,280	352,079	6,951,811	14,755,170
<b>Canada .....</b>	<b>116,875,559</b>	<b>34,139,075</b>	<b>93,651,001</b>	<b>244,665,635</b>

<sup>1</sup> 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, 1959

	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 .....	120	161	285,970	16,783	247,095	629,169
\$ 10,000 to \$ 24,999 .....	102	278	627,863	47,121	683,498	1,731,123
25,000 " 49,999 .....	103	477	1,319,544	70,450	1,679,200	3,847,115
50,000 " 99,999 .....	108	825	2,408,184	152,577	3,695,170	7,915,360
100,000 " 199,999 .....	123	1,359	4,322,131	303,644	8,035,319	18,142,056
200,000 " 499,999 .....	193	3,253	12,822,174	937,192	28,746,371	64,951,277
500,000 " 999,999 .....	125	4,140	16,202,749	1,377,108	42,769,223	90,871,322
1,000,000 " 4,999,999 .....	203	16,821	70,874,408	9,405,930	211,040,476	440,942,944
5,000,000 and over .....	60	25,187	120,328,675	38,281,454	330,469,440	749,180,664
Head offices .....	—	2,281	14,226,028	—	—	—
<b>Totals .....</b>	<b>1,137</b>	<b>54,782</b>	<b>243,217,726</b>	<b>50,592,259</b>	<b>627,365,792</b>	<b>1,378,211,030</b>
(b) Employees						
Under 5 employees .....	320	691	1,949,026	131,936	4,958,562	11,662,971
5 to 14 employees .....	318	2,696	10,135,839	856,524	32,110,678	63,609,476
15 " 49 " .....	273	7,490	29,238,381	3,385,021	96,431,159	192,107,161
50 " 99 " .....	121	8,428	34,339,413	4,786,792	124,830,460	249,033,973
100 " 199 " .....	54	7,581	33,068,886	9,862,560	115,929,964	237,742,978
200 " 499 " .....	32	9,641	43,913,276	8,743,633	90,571,231	247,117,163
500 " 999 " .....	16	11,401	53,389,614	14,126,287	129,446,783	292,796,885
1,000 " 1,499 " .....	2	4,573	22,957,263	8,699,506	33,086,955	84,140,423
1,500 and over .....	1					
Head offices .....	—	2,281	14,226,028	—	—	—
<b>Totals .....</b>	<b>1,137</b>	<b>54,782</b>	<b>243,217,726</b>	<b>50,592,259</b>	<b>627,365,792</b>	<b>1,378,211,030</b>

TABLE 6. New Investment in Durable Physical Assets and Repair and Maintenance, in the Chemicals and Allied Products Group, 1950-59

Year	New investment			Repair and maintenance			Total
	Construction	Machinery and equipment	Sub-total	Construction	Machinery and equipment	Sub-total	
millions of dollars							
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	37.8	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
1959 .....	24.5	56.5	81.1	10.1	45.0	55.1	136.1

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 columns for the individual industries.



TABLE 7. Employees and their Earnings in the Chemicals and Allied Products Group, by Industries, 1958 and 1959

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		
<b>1958</b>								
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	8,564,227	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
<b>Totals .....</b>	<b>13,802</b>	<b>6,868</b>	<b>28,178</b>	<b>5,722</b>	<b>54,570</b>	<b>104,241,557</b>	<b>129,577,773</b>	<b>233,819,330</b>
<b>1959</b>								
Acids, alkalis and salts .....	2,787	744	8,872	49	10,452	19,782,633	33,745,150	53,527,783
Fertilizers .....	729	174	2,088	10	3,001	5,012,149	8,792,566	13,804,715
Medicinals and pharmaceuticals .....	1,730	1,637	2,443	2,336	8,146	16,723,102	14,410,437	31,133,539
Paints and varnishes .....	1,848	1,007	3,158	327	6,340	13,613,134	13,010,985	26,624,119
Primary plastics .....	985	315	2,107	62	3,469	7,159,993	9,919,997	17,079,990
Soaps, washing compounds and cleaning preparations .....	1,066	608	1,918	437	4,029	8,705,016	9,666,968	18,371,984
Toilet preparations .....	398	509	615	1,083	2,605	3,933,776	4,316,128	8,249,904
Vegetable oils .....	195	62	365	3	625	1,425,194	1,428,120	2,853,314
Inks .....	197	162	673	35	1,067	1,818,455	2,638,887	4,457,342
Adhesives .....	145	91	362	31	629	1,237,859	1,445,763	2,683,622
Polishes and dressings .....	208	178	279	167	832	2,086,761	1,379,406	3,466,167
Compressed gases .....	577	212	710	5	1,504	3,500,405	3,157,682	6,658,087
Coal tar distillation .....	151	32	306	2	491	1,432,889	1,319,484	2,752,373
Miscellaneous chemical products .....	3,150	1,260	5,999	1,183	11,592	23,374,634	28,180,153	51,554,787
<b>Totals .....</b>	<b>14,166</b>	<b>6,991</b>	<b>27,895</b>	<b>5,730</b>	<b>54,782</b>	<b>109,806,000</b>	<b>133,411,726</b>	<b>243,217,726</b>

TABLE 8. Employees and their Earnings in the Chemicals and Allied Products Group, by Provinces, 1958 and 1959

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		
<b>1958</b>								
Newfoundland .....	17	5	43	17	82	103,656	167,523	271,179
Prince Edward Island and Nova Scotia .....	93	30	202	12	337	442,180	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	63	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
<b>Canada .....</b>	<b>13,802</b>	<b>6,868</b>	<b>28,178</b>	<b>5,722</b>	<b>54,570</b>	<b>104,241,557</b>	<b>129,577,773</b>	<b>233,819,330</b>
<b>1959</b>								
Newfoundland .....	15	5	42	12	74	88,811	170,033	258,844
Prince Edward Island and Nova Scotia .....	91	33	161	12	317	466,236	614,904	1,081,140
New Brunswick .....	25	8	113	-	146	170,431	331,241	501,672
Quebec .....	5,759	2,866	10,236	2,430	21,291	44,763,051	47,758,354	92,521,405
Ontario .....	6,714	3,591	14,096	3,088	27,489	54,286,334	70,482,900	124,769,234
Manitoba .....	163	98	389	70	740	1,205,498	1,394,241	2,599,739
Saskatchewan .....	87	38	74	2	201	654,617	305,043	959,660
Alberta .....	610	151	1,123	27	1,911	3,771,750	5,167,893	8,939,643
British Columbia and Northwest Territories .....	682	201	1,641	89	2,613	4,399,272	7,187,117	11,586,389
<b>Canada .....</b>	<b>14,166</b>	<b>6,991</b>	<b>27,895</b>	<b>5,730</b>	<b>54,782</b>	<b>109,806,000</b>	<b>133,411,726</b>	<b>243,217,726</b>

TABLE 9. Production and Related Workers (Wage-earners) in the Chemicals and Allied Products Group, by Months, 1959

Month	Establishments reporting monthly detail <sup>1</sup>		Establishments reporting quarterly detail <sup>2</sup>	
	Male	Female	Male	Female
January .....	26,800	5,060		
February .....	26,936	5,115		
March .....	25,253	5,303	226	45
April .....	25,813	5,303		
May .....	25,955	5,325		
June .....	25,689	5,489	264	45
July .....	27,394	5,237		
August .....	27,509	5,429		
September .....	27,524	5,423	235	42
October .....	27,325	5,478		
November .....	27,106	5,222		
December .....	26,695	5,096	221	43
Average for establishments reporting monthly detail .....			26,673	5,289
Average for establishments reporting quarterly detail .....			233	43
Average estimated for small establishments <sup>3</sup> .....			989	398
Average for all establishments .....			27,895	5,730

<sup>1</sup> The number of production workers, by months, was collected only for larger establishments.

<sup>2</sup> The number of production workers, by quarters, was collected only for medium sized establishments.

<sup>3</sup> Small establishments were not asked to report details of employment.

Note: For data by industries for 1959 refer to separate industry reports.

TABLE 10. Materials Used in the Industries in the Chemicals and Allied Products Group, 1958 and 1959

Item	1958		1959	
	Quantity	Cost at works \$	Quantity	Cost at works \$
Acetic anhydride .....	lb. 885,487	110,056	277,995	34,518
Acetone .....	" 5,480,477	556,265	4,592,056	461,734
Acetanilid .....	" 7,651	3,915	9,263	4,067
Acetylene .....	cu. ft. 214,933,729	1,628,935	228,620,170	1,722,338
Acid:				
Acetic .....	lb. 20,172,941	2,029,515	26,511,675	2,667,496
Acetylsalicylic .....	" 811,188	476,343	926,100	526,148
Arsenic (As <sub>2</sub> O <sub>5</sub> ) .....	" 438,022	18,758	626,787	25,625
Benzoic .....	" 344,612	75,581	183,854	46,251
Boric or boracic .....	" 120,760	14,315	104,697	14,546
Citric .....	" 671,633	210,419	858,947	262,557
Cresylic (including cresols) .....	" 1,276,179	189,958	1,583,824	210,274
Fatty, n.e.s. .....	" 5,936,726	741,905	5,815,797	879,862
Formic .....	" 797,686	113,507	291,565	40,369
Hydrochloric (muriatic) .....	" 8,629,588	534,827	8,857,407	531,960
Naphthenic .....	" 1,829,359	201,908	1,892,332	191,641
Nitric .....	" 17,542,997	734,406	11,580,254	454,076
Oleic .....	" 1,046,753	191,698	944,229	161,440
Oxalic .....	" 101,389	17,618	164,672	29,783
Phosphoric .....	" 1,452,311	131,546	2,092,284	195,085
Stearic .....	" 2,318,912	298,661	1,920,303	310,705
Sulphuric .....	" 1,718,629,107	7,057,705	1,536,787,813	7,206,449
Tannic .....	" 4,281	6,200	3,628	5,152
Tartaric .....	" 637,853	242,897	665,146	252,790
Alcohol:				
Amyl (fusel oil) .....	gal. 6,439	8,705	2,456	4,108
Butyl .....	lb. 4,256,423	680,856	4,804,351	746,188
Ethyl .....	gal. 1,281,471	1,587,792	1,209,920	1,494,267
Esopropyl .....	lb. 8,324,219	687,004	6,952,544	603,814
Methyl (wood) refined .....	gal. 3,539,388	1,294,959	4,308,888	1,496,419
Aluminum rod, strip, etc. ....	lb. 47,763	22,126	51,743	23,981
Aluminum hydrate .....	" 46,764,376	1,169,109	43,409,026	1,172,043
Aluminum sulphate .....	" 1,133,118	33,235	1,042,588	31,228
Ammonia, anhydrous .....	" 217,808,995	8,392,416	231,860,930	6,813,444
Ammonium chloride .....	" 3,810	438	6,120	570
Ammonium nitrate .....	" 20,043,077	687,466	23,986,795	839,983
Ammonium phosphate .....	ton 11,562	978,747	9,776	859,553
Ammonium sulphate .....	" 30,865	1,258,896	32,270	1,286,953
Amyl acetate .....	lb. 233,454	43,279	123,486	23,408
Arsenic, white (As <sub>2</sub> O <sub>3</sub> ) .....	" 60,927	3,433	73,456	4,035
Asphalt .....	gal. 787,250	176,843	673,267	161,647
Barium chloride .....	lb. 1,222,479	81,095	1,254,437	81,661
Barium nitrate .....	" 114,977	14,208	132,239	16,996



TABLE 10. Materials Used in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Continued

Item	1958		1959	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Barytes .....	lb. 1,632,871	59,088	1,828,873	63,468
Bentonite (filtrol, Pembina, etc.) .....	ton 1,364	140,631	511	160,121
Benzol <sup>1</sup> .....	lb. 128,210,109	5,870,130	118,126,837	4,852,444
Bismuth metal .....	" 14,125	27,622	5,326	10,546
Bismuth salts .....	" 17,306	52,059	13,807	36,871
Black, lamp, bone and other, n.e.s. ....	" 187,698	41,369	184,252	44,758
Blanc fixe .....	" 352,136	20,577	990,659	47,955
Bones .....	ton 14,432	448,034	12,468	312,996
Borax .....	lb. 2,391,159	118,150	2,878,963	137,508
Brass rod, strip, etc. ....	" 2,481,689	842,016	1,947,362	665,284
Butyl acetate .....	" 3,801,289	604,448	3,035,268	485,814
Butyl "Cellosolve" .....	" 694,515	159,674	344,110	83,909
Caffeine .....	" 27,700	70,360	30,733	76,110
Calcium arsenate .....	" 143,365	13,210	7,030	512
Calcium carbide .....	" 28,590,265	1,484,388	29,533,058	1,534,838
Calcium carbonate (ground chalk, whiting etc.) .....	" 33,850,259	615,236	35,573,265	692,528
Calcium chloride .....	" 1,732,375	44,379	1,371,796	36,031
Calcium sulphate .....	" 1,859,109	32,531	1,842,910	33,380
Camphor .....	" 51,316	30,680	48,270	29,367
Carbon bisulphide .....	" 4,688,663	257,891	3,363,198	185,149
Carbon black .....	" 2,287,541	330,975	2,486,863	354,462
Carbon tetrachloride .....	" 8,259,337	678,997	10,707,850	616,768
Casein .....	" 1,310,852	340,873	1,875,271	429,077
Chalk, precipitated .....	" 555,868	24,274	500,025	21,871
Charcoal .....	" 5,079,327	170,668	7,207,067	236,868
Chloride of lime .....	" 1,416,900	73,454	1,400,040	63,977
Chlorine, liquid .....	" 22,949,104	975,879	22,890,279	858,966
Coal:				
Anthracite (except for fuel) .....	ton 55,616	876,050	93,023	1,342,079
Cobalt acetate .....	lb. 7,666	8,175	7,600	7,359
Cobalt sulphate .....	" 5,589	5,155	7,209	3,605
Coke:				
Petroleum (except for fuel) .....	ton 1,153	28,529	885	19,020
Other (except for fuel) .....	" 256,203	4,698,224	244,839	4,580,945
Colours, chrome .....	lb. 2,402,093	985,791	2,731,568	1,115,836
Copper sulphate .....	" 248,005	61,648	303,505	73,576
Copra or dried coconut kernels .....	" 11,734,045	936,048	..	..
Cotton linters .....	" 355,569	45,131	373,556	41,330
Creosote .....	" 234,844	17,505	273,944	33,300
D.D.T. ....	" 829,738	159,336	970,563	190,879
Dextrine .....	" 9,821,685	730,546	7,716,422	714,281
Diatomaceous earth .....	ton 12,293	722,765	11,472	677,156
Dibutyl phthalate .....	lb. 748,099	219,236	683,758	197,217
Dinitrotoluene .....	" 241,513	32,687	419,952	52,686
Driers:				
Linoleate .....	" 57,651	8,500	53,303	11,881
Naphthenate .....	" 2,230,846	666,606	2,441,827	726,600
Resinate .....	" 53,481	10,622	49,243	8,706
Other .....	" ..	188,827	..	179,933
Dyes and colours, other .....	..	256,360	..	232,107
Electrodes .....	..	374,150	..	632,000
Ethanolamines - Di - Mono - Tri - other .....	lb. 2,490,618	684,671	2,407,548	680,876
Ether, sulphuric .....	" 70,957	13,219	59,672	15,189
Ethyl acetate .....	" 2,899,685	393,269	3,288,054	432,706
Ethylene glycol (see also "Glycols, other") .....	" 29,824,233	3,956,118	40,727,868	5,044,281
Feldspar .....	ton 1,016	18,553	594	10,703
Ferric chloride .....	lb. 113,302	6,256	40,375	2,792
Flaxseed .....	bu. 3,478,991	10,718,417	3,156,913	10,018,650
Flour:				
Potato .....	lb. 261,596	19,817	183,187	13,473
Tapioca .....	" 382,748	41,879	394,934	46,030
Wheat .....	" 4,091,146	174,411	3,771,602	178,683
Other .....	" 242,174	13,390	214,940	12,567
Fluorspar .....	ton 74,939	2,436,656	70,046	2,218,220

<sup>1</sup> Includes usage for production of synthetic rubber.

TABLE 10. Materials Used in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Continued

Item		1958		1959	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Foots, olive and cotton seed	lb.	5,818,238	439,887	5,055,811	229,936
Formaldehyde (100%)	"	18,208,464	1,855,277 <sup>r</sup>	17,962,229	1,785,528
Fuller's earth	ton	266	15,241	255	20,560
Glucose	lb.	2,046,053	162,147	1,727,830	128,790
Glue	"	3,667,797	834,125	3,138,746	760,558
Glycerine:					
Crude	"	8,497,969	1,391,487	9,335,476	1,845,474
Refined	"	11,309,843	3,251,462	11,673,962	3,356,614
Glycols, other	"	3,429,715	606,707	4,292,055	759,510
Graphite	"	1,307,527	453,335	897,681	301,187
Grease	"	834,375	78,188	1,268,366	95,376
Gun powder	"	1,001,563	599,260	958,947	635,030
Herbs, roots and vegetable drugs		..	249,690	..	263,125
Hides and hide trimmings	ton	21,531	303,016	19,437	308,677
Hydrogen chloride, anhydrous	lb.	14,546,912	643,135	15,902,582	781,057
Iodine, crude	"	68,789	67,137	73,041	68,497
Iron, scrap	ton	4,320	123,797	3,180	101,540
Iron oxide pigments	lb.	3,652,782	471,356	3,777,855	442,477
Javel concentrate or sodium hypochlorite for dilution		..	115,908	..	94,614
Kaolin or china-clay	lb.	8,894,310	202,742	6,884,466	201,384
Lanolin	"	250,278	109,838	179,815	72,080
Lead, basic carbonate, white, dry	"	1,229,908	218,467	1,074,386	192,983
Lead, basic carbonate, white, in oil	"	164,571	31,177	218,177	40,095
Lead, basic sulphate, white	"	151,026	27,261	156,770	35,550
Lead, pig	"	7,772,399	983,594	8,247,428	988,286
Lead, red	"	1,451,667	243,799	1,692,906	285,331
Lime:					
Hydrated	ton	13,838	151,893	14,654	149,104
Quick	"	32,061	513,053	38,796	614,335
Land plaster	"	310	8,181	423	5,333
Limestone	"	1,089,296	1,956,212	1,107,327	2,290,727
Litharge	lb.	2,707,793	406,380	2,846,416	413,660
Lithopone	"	2,127,529	193,660	1,753,706	169,045
Lumber	M bd. ft.	96	6,323	86	6,710
Magnesium oxide	ton	1,617	66,371	1,761	78,031
Magnesium sulphate (Epsom salts)	lb.	1,515,146	53,645	1,286,524	48,364
Malt extract	"	235,813	32,661	214,813	29,845
Meal, Ivory nut and other	"	1,438,828	41,345	2,353,307	71,244
Menthol	"	23,444	126,001	22,888	118,869
Mercury metal	"	137,122	360,439	135,395	342,658
Methyl chloride	"	3,256,660	437,303	2,551,436	326,092
Mica, ground	"	1,912,073	133,272	1,929,365	122,864
Nitrocellulose or nitro cotton	"	3,590,535	1,194,768	3,593,399	1,243,597
Nitrogen solutions		..	2,408,403	..	2,360,621
Ochres, siennas and umbers	lb.	316,676	46,511	276,566	40,281
Oil:					
Castor	gal.	404,819	651,114	283,732	438,670
Castor dehydrated	"	96,288	228,731	116,366	271,392
Chinawood (tung)	lb.	3,816,068	688,096	3,715,864	604,022
Cocconut	"	14,463,171	2,009,350	15,780,103	2,631,424
Cod	"	572,046	54,800	658,635	53,865
Cod liver	"	316,147	72,335	254,591	52,512
Essential and perfume		..	3,374,304	..	3,629,675
Fish	lb.	2,006,331	234,359	2,226,622	223,537
Linseed:					
Raw	gal.	1,055,267	1,649,025	1,046,525	1,495,371
Boiled and other	"	2,229,139	3,652,072	2,138,118	3,586,975
Polymerol	lb.	562,242	109,544	559,451	93,782
Varnol	"	341,833	74,086	173,793	37,061
Mineral, other	gal.	1,287,083	360,490	1,332,067	364,992
Mineral, white	lb.	2,974,896	345,519	3,253,581	357,116
Neat's foot	"	426,413	75,074	262,376	52,988
Oiticica	"	49,761	9,857	22,483	4,653
Olive	"	21,681	7,075	23,527	7,433
Palm	"	..	..	313,680	21,333
Petroleum ink	gal.	1,357,173	330,086	1,501,312	371,881
Pine	lb.	531,079	65,900	534,878	61,314
Silicone	"	60,291	183,333	70,356	164,674
Soya bean	gal.	1,661,799	2,210,015	1,709,278	2,035,825
Tall	lb.	3,859,944	319,689	4,161,542	343,733
Other		..	1,341,220	..	1,162,003



TABLE 10. Materials Used in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Continued

Item	1958		1959		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Paradichlorobenzene .....	lb.	1,570,758	202,326	2,666,442	317,851
Pentacosol .....	"	153	33	..	..
Petrolatum .....	"	1,254,496	143,160	1,277,639	142,232
Petroleum distillates .....	gal.	8,563,704	3,424,413	10,660,475	3,635,841
Penicillin .....	..	..	720,761	..	893,338
Phenacetin .....	lb.	151,228	151,723	174,623	170,241
Phenobarbital and other barbiturates .....	"	25,615	122,087	25,886	123,611
Phenol .....	"	24,373,115	4,163,275	25,497,996	3,989,501
Phosphorus, amorphous .....	"	34,240	18,425	25,555	15,011
Phosphorous sesquisulphide .....	"	44,906	19,725	39,750	16,595
Phosphate rock .....	ton	699,140	9,176,937	764,991	9,944,536
Phthalic anhydride .....	lb.	16,804,327	2,721,308	19,984,025	3,137,804
Pigments, all colours and fillers, n.e.s. ....	..	..	4,461,289	..	6,419,259
Pitch, coal tar .....	lb.	1,334,598	69,559	1,164,581	42,747
Plasticizers, n.e.s. ....	"	5,036,563	1,403,483	6,228,343	1,679,123
Potassium bichromate .....	"	139,062	25,075	152,736	27,612
Potassium chlorate .....	"	1,029,820	142,861	929,164	137,521
Potassium chloride (muriate of potash) .....	ton	120,877	4,361,548	132,438	4,628,609
Potassium hydroxide .....	lb.	3,318,560	239,747	3,057,770	212,643
Potassium iodide .....	"	26,596	41,598	14,279	24,557
Potassium magnesium sulphate .....	"	5,104,000	79,292	9,038,000	137,556
Potassium nitrate .....	"	755,741	55,263	708,741	49,478
Potassium perchlorate .....	"	91,636	17,087	88,449	16,364
Potassium sodium tartrate .....	"	14,660	3,713	11,473	3,091
Potassium sulphate .....	"	34,256,208	802,408	41,155,169	980,970
Powders, metallic (bronze, aluminum, etc.) .....	"	1,145,551	603,769	1,112,247	572,749
Pyrethrum extract and powder .....	..	..	15,834	..	12,706
Pyrites .....	ton	232,763	2,133,596	280,677	2,513,888
Quartz and quartzite .....	"	36,382	185,837	50,402	236,550
Quebracho extract .....	lb.	40,774	5,858	48,980	7,782
Rapeseed .....	"	23,228,734	874,928	38,191,750	1,274,919
Resins and gums, natural .....	"	4,961,522	689,066	5,623,973	809,052
Resins, synthetic, other .....	"	56,799,492	12,356,664	60,059,342	12,773,434
Resins, phenolic .....	"	924,071	368,744	1,084,475	433,596
Rosin .....	..	..	1,006,607	..	1,086,000
Rubber:					
Chlorinated .....	lb.	252,578	147,276	214,131	113,254
Latex (including latex emulsion) .....	"	14,249,733	2,627,813	16,889,002	3,092,267
Sawdust .....	"	697,579	6,906	628,338	6,657
Shellac:					
Orange .....	"	187,799	71,330	199,786	68,404
Bleached .....	"	1,432,632	672,845	1,239,550	593,098
Other .....	"	452,129	210,905	287,451	149,942
Silica sand .....	ton	42,712	596,527	40,889	569,537
Silver bullion .....	troy oz.	103,400	90,785	..	..
Sodium azide .....	lb.	7,172	10,172	8,180	12,226
Sodium benzoate .....	"	33,854	9,192	21,991	8,782
Sodium bicarbonate .....	"	1,908,170	73,495	2,013,802	76,117
Sodium bichromate .....	"	2,999,464	411,727	2,783,221	382,843
Sodium bromide .....	"	50,462	18,428	52,913	19,028
Sodium carbonate (soda ash) .....	"	116,037,507	2,737,073	154,403,979	3,378,840
Sodium carboxymethylcellulose .....	"	951,469	249,159	1,101,169	277,007
Sodium chlorate .....	"	2,764,564	241,445	1,972,601	171,558
Sodium chloride (common salt) including brine .....	"	1,987,484,976	4,610,532	2,160,456,494	4,887,268
Sodium fluoride .....	"	282,086	33,799	289,769	36,233
Sodium hydroxide (caustic soda) .....	"	126,683,171	4,362,769	136,963,706	4,566,242
Sodium metasilicate .....	"	2,717,152	121,089	1,788,276	94,416
Sodium nitrate (chile saltpetre) .....	"	33,875,892	881,527	34,382,914	915,643
Sodium peroxide .....	"	87,723	18,795	108,418	23,400
Sodium phosphate (di) .....	"	983,934	103,958	790,443	73,162
Sodium phosphate (tetra) .....	"	90,039	11,439	93,526	10,002

TABLE 10. Materials Used in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Concluded

Item	1958		1959		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Sodium phosphate (tri) .....	lb.	8,951,611	561,871	8,836,885	574,885
Sodium salicylate .....	"	13,767	8,439	13,379	8,310
Sodium silicate (water glass) .....	"	87,122,204	1,115,690	88,049,282	1,116,749
Sodium sulphate .....	"	1,730,748	44,988	2,011,284	52,044
Sodium sulphide .....	"	569,652	35,052	432,678	18,816
Solvents, n.e.s. ....	gal.	4,260,913	3,228,007	4,549,187	3,372,537
Soya beans .....	lb.	818,666,196	31,254,629	916,259,100	33,695,291
Starch:					
Corn .....	"	2,173,421	164,375	1,273,302	110,535
Other .....	"	650,714	59,913	664,890	59,476
Strontium nitrate .....	"	455,483	56,640	581,020	71,559
Sugar .....	"	4,969,894	421,767	4,950,757	380,713
Sulpha drugs .....	"	..	482,234	..	475,121
Sulphur (elemental) .....	ton	242,570	8,139,085	215,396	7,014,995
Sulphur dioxide .....	"	..	1,385,338	..	1,369,419
Sunflower seed .....	lb.	6,766,890	271,400	6,835,010	284,701
Superphosphate:					
18% .....	ton	45,991	1,051,041	14,568	315,679
20% .....	"	268,694	6,407,911	325,878	7,182,686
36-48% .....	"	42,910	2,570,410	55,309	3,230,143
Ammoniated, 3-18-0 .....	"	367	12,853	11,056	310,848
Talc .....	lb.	30,151,791	702,733	26,632,930	696,815
Tallow, grease and other soap stock .....	"	86,892,399	6,595,398	82,828,932	5,801,665
Tar:					
Crude, coal .....	gal.	36,200,225	5,315,877	37,849,195	5,395,084
Water gas, crude .....	"	246,448	28,746	38,164	5,600
Titanium pigments, white .....	lb.	28,949,987	7,616,386	30,907,217	8,069,588
Titanium oxide, extended .....	"	31,030,933	3,352,758	28,977,616	3,214,999
Toluol .....	"	17,834,431	795,492	16,980,202	726,325
Trichlorethylene .....	"	232,659	33,133	8,000	1,398
Trinitrotoluol (TNT) .....	"	834,224	158,223	2,534,309	282,702
Turpentine .....	gal.	357,658	320,423	343,979	292,773
2,4-D .....	lb.	1,819,545	750,117	1,602,121	745,278
Urea .....	"	13,840,913	783,413	12,464,845	665,951
Varnishes .....	gal.	866,591	1,815,460	841,522	1,756,372
Vitamins (A, B, C and D) .....	"	..	1,069,076	..	1,388,423
Wax:					
Beeswax .....	lb.	323,106	228,924	346,421	232,150
Candelilla .....	"	48,384	31,343	47,097	29,999
Carnauba .....	"	1,593,321	1,233,218	1,243,575	973,107
Ouricury .....	"	14,732	11,533	12,451	10,098
Paraffin, including slack wax .....	"	60,490,867	2,748,323	61,431,776	2,640,469
Synthetic .....	"	228,480	115,028	487,750	230,477
Other .....	"	1,572,758	525,685	1,321,622	448,973
Wood:					
Blocks and splints .....	"	..	660,623	..	488,612
Flour .....	lb.	2,076,149	57,639	2,213,425	61,262
Hardwood for distillation .....	cord	13,560	152,507	13,109	151,721
Pulp .....	lb.	45,305,415	4,449,980	51,451,351	5,016,437
Xylol .....	"	16,430,859	805,097	17,576,236	826,117
Yarns .....	"	821,721	323,549	779,424	299,616
Zinc dross .....	"	83,113	5,403	125,331	9,877
Zinc oxide:					
Pure .....	"	5,443,913	728,623	5,670,122	784,016
Leaded .....	"	505,030	74,770	536,041	81,063
Zinc spelter .....	"	17,718,504	1,736,672	18,073,994	1,997,390
Zinc stearate .....	"	97,329	36,558	123,769	39,907
Zinc sulphate .....	"	138,740	7,393	138,902	7,423
Containers and packing material .....	"	..	77,535,070	..	81,282,430
All other materials .....	"	..	228,728,382	..	253,296,364
<b>Totals .....</b>	<b>..</b>	<b>589,315,894</b>	<b>..</b>	<b>627,365,792</b>	<b>..</b>



TABLE 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1958 and 1959

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	1958		1959	
	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.	180,973,230	6,772,394	184,915,535	7,199,610
Acid:				
Acetic, glacial, 99% .....	—	•	—	•
Crotonic .....	—	•	—	•
Fatty, other .....	5,845,079	995,983	18,447,047	2,801,552
Hydrochloric (muriatic) .....	—	1,033,896	—	1,010,833
Hydrofluosilicic .....	—	•	—	•
Monochloro acetic .....	—	•	—	•
Nitric:				
Commercial .....	—	•	—	•
C.P. ....	—	•	—	•
Oleic .....	—	•	—	•
Phosphoric .....	—	•	—	•
Stearic .....	—	•	—	•
Sulphuric:				
Commercial, 100% (for sale) ..... lb.	2,882,547,000	22,216,678	3,120,092,000	24,802,386
C.P. ....	—	•	—	•
Aluminum chloride .....	—	•	—	•
Aluminum fluoride .....	—	•	—	•
Aluminum stearate .....	—	•	—	•
Aluminum sulphate .....	—	•	—	•
Ammonia:				
Anhydrous .....	—	•	—	•
Aqua .....	—	•	—	•
Ammonia powder ..... lb.	1,315,980	133,514	1,016,322	113,067
Ammonium chloride .....	—	•	—	•
Ammonium nitrate:				
Regular .....	—	•	—	•
Fertilizer compound .....	—	•	—	•
Ammonium phosphate (fertilizer) .....	—	•	—	•
Ammonium sulphate (fertilizer) .....	—	•	—	•
Ammonium sulphate (milled, screened and bagged only) ..... ton	468	29,708	296	19,500
Anesthetics, other .....	—	•	—	•
Aniline oil .....	—	•	—	•
Automobile chemicals (brake fluid, tar remover, etc.) ..	..	3,211,174	..	4,008,624
Biological preparations and vaccines ..	..	8,788,324	..	6,120,321
Boiler compounds .....	..	3,199,677	..	3,559,442
Bone meal:				
Raw ..... lb.	8,492,000	300,056	1,040,850	42,343
Steamed .....	..	..	..	..
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 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group.  
1958 and 1959 - Continued

Item	1958		1959	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Carbon dioxide (in cylinders and solid) .....	-	.	-	.
Carboxymethylcellulose .....	-	.	-	.
Cellulose film .....	-	.	-	.
Cellulose sponges .....	-	.	-	.
Cement:				
Linoleum .....	gal. 978,833	472,157	880,373	462,577
Rubber .....	" 306,922	576,267	193,537	537,002
Other .....	" ..	904,270	" ..	767,658
Charcoal .....	ton 14,186	882,463	14,230	834,599
Chloride of lime .....	lb. 222,400	31,413	" ..	" ..
Chlorine liquid or gas .....	" 277,998,000	8,792,120	310,010,000	9,310,535
Chloroform .....	-	.	-	.
Cleaners:				
Toilet bowl .....	" ..	653,135	" ..	584,188
Drain pipe .....	lb. 1,970,381	297,763	2,148,758	306,214
Hand .....	" 4,607,446	741,546	2,648,037	549,774
Glass .....	" ..	182,016	" ..	191,720
Cleaning and scouring powder and paste .....	lb. 46,521,006	6,996,749	51,616,278	8,286,535
Cleaning preparations, other .....	" ..	3,994,912	" ..	5,423,385
Cobalt naphthenate .....	-	.	-	.
Coke, pitch .....	ton 8,155	163,278	3,463	67,097
Colours:				
Butter, cheese, etc. ....	-	.	-	.
Dry .....	" ..	3,976,993	" ..	3,762,825
In oils and japans .....	gal. 40,309	307,631	32,764	236,408
Copper naphthenate .....	-	.	-	.
Croton aldehyde .....	-	.	-	.
Cresol .....	-	.	-	.
Cryolite .....	-	.	-	.
Deodorants, liquid, powder and paste .....	" ..	10,794,540	" ..	11,771,543
Detergents, synthetic .....	lb. 198,324,173	57,474,411	209,589,660	60,874,575
Dextrines .....	-	.	-	.
Dibutyl phthalate .....	-	.	-	.
Dichloroethyl ether .....	-	.	-	.
Dicyandiamide .....	-	.	-	.
Diocetyl phthalate .....	-	.	-	.
Disinfectants and deodorants (except for personal use) .....	" ..	2,139,264	" ..	1,884,313
Dressings and finishes, leather, except polish .....	" ..	1,636,164	" ..	1,685,763
Dyes:				
Leather .....	" ..	25,440	" ..	11,727
Embalming fluid .....	" ..	245,369	" ..	299,313
Ethylacetate .....	-	.	-	.
Ethylene oxide .....	-	.	-	.
Ethylene dichloride .....	-	.	-	.
Explosives and ammunition .....	-	.	-	.
Ferric chloride .....	-	.	-	.
Ferrophosphorus .....	-	.	-	.
Fertilizers, mixed .....	ton 747,067	39,656,970	747,809	40,730,919
Flavouring extracts .....	" ..	436,664	" ..	390,727
Flour bleaching compound .....	-	.	-	.
Fluorspar, flotation .....	-	.	-	.
Glue:				
Bone and hide .....	lb. 10,191,811	2,436,807	8,020,713	1,945,619
Casein .....	" 561,019	140,266	712,892	169,769
Fish .....	" ..	247,205	" ..	223,914
Flexible .....	lb. 2,715,410	638,122	2,787,463	691,130
Synthetic resin .....	" 35,050,054	5,260,876	38,680,466	5,635,847
Vegetable, dry .....	" 2,351,994	300,303	2,558,408	328,713
Vegetable, liquid .....	" 20,340,326	2,443,841	23,364,196	2,787,143
Other .....	" ..	1,194,892	" ..	1,445,261
Glycerine:				
Crude .....	lb. 1,756,371	333,743	1,571,776	379,201
Refined .....	" 12,375,629	3,715,915	12,993,517	3,867,219
Glycols:				
Ethylene .....	-	.	-	.
Diethylene .....	-	.	-	.
Triethylene .....	-	.	-	.



TABLE 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Continued

	1958		1959	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Guanidine nitrate .....	—	•	—	•
Hydrogen chloride, anhydrous .....	—	•	—	•
Hydrogen peroxide, liquid .....	—	•	—	•
Inks:				
Newspaper .....	lb. 15,046,025	1,949,118	16,383,820	2,131,850
Letterpress .....	" 7,433,625	6,616,158	7,433,374	6,862,766
Lithographing .....	" 2,938,892	3,778,176	3,017,879	4,186,168
Stamping .....	" 126,580	143,605	40,142	37,328
Other printing .....	" 5,133,738	2,135,253	8,166,274	2,782,552
Writing:				
Liquid .....	..	342,787	..	311,880
Powder and pellets .....	..	2,600	..	..
Insecticides, other:				
Agricultural dusts and sprays, not specified elsewhere .....	..	2,100,586	..	2,077,359
Fly spray .....	..	184,332	..	170,099
Gopher poison .....	..	6,429	..	10,979
Rat and mouse poison .....	..	254,642	..	342,913
Other household .....	..	2,685,682	..	4,057,139
Livestock spray and powder .....	..	86,328	..	89,910
Iron oxide pigments, synthetic .....	—	•	—	•
Iron naphthenate .....	—	•	—	•
Isobutylene .....	—	•	—	•
Javel water .....	..	10,084,384	..	9,277,209
Lacquers .....	gal. 2,752,935	8,505,666	2,920,214	9,368,422
Lead acetate .....	—	•	—	•
Lead arsenate .....	—	•	—	•
Lead naphthenate .....	—	•	—	•
Lead oxide:				
Red .....	—	•	—	•
Litharge .....	—	•	—	•
Lead, white				
Dry .....	—	•	—	•
Ground in oil .....	—	•	—	•
Lecithin .....	—	•	—	•
Lighter fluid .....	..	263,459	..	264,698
Magnesium stearate .....	—	•	—	•
Manganese naphthenate .....	—	•	—	•
Matches:				
In books .....	No. of books 641,011,856	2,195,880	675,291,500	2,815,970
Other .....	—	•	—	•
Medicinals and pharmaceuticals, other .....	..	106,569,863	..	117,939,315
Muriate of potash (fertilizer):				
Milled, screened and bagged only .....	ton 3,393	196,176	2,901	167,304
Naphthalene .....	—	•	—	•
Nickel salts .....	—	•	—	•
Nitrous oxide .....	—	•	—	•
Nitrobenzol .....	—	•	—	•
Oil, sulphonated:				
Castor .....	lb. 597,641	94,678	546,244	87,625
Cocanut .....	" 102,761	15,195	102,181	15,261
Cod .....	" 414,628	51,088	374,186	46,601
Neat's foot .....	" 166,732	31,714	111,038	21,241
Other blends .....	" 2,374,543	281,120	3,072,416	264,172
Oil:				
Castor, dehydrated .....	—	•	—	•
Cocanut, crude .....	—	•	—	•
Cofe .....	lb. 3,212,282	454,606	3,312,980	442,065
Creosote .....	gal. 9,756,092	2,635,062	10,148,218	2,669,178
Lard .....	—	•	—	•
Linseed:				
Boiled .....	" 362,366	573,782	351,224	562,558
Processed .....	" 2,768,484	3,968,692	2,616,205	3,823,162
Raw (sold as such) .....	" 4,488,105	5,131,683	3,965,198	4,894,264
Neat's foot, cold-pressed .....	—	•	—	•
Soya bean, crude .....	ton 62,097	16,118,599	78,245	17,102,374
Soya bean, processed .....	" 4,735	1,242,512	4,098	970,960
Stand, blown and enamel .....	gal. 52,229	53,796	..	..
Sunflower, crude .....	—	•	—	•
Other .....	..	2,034,042	..	3,389,297
Oilcake and oilcake meal:				
Cocanut .....	—	•	—	•
Linseed .....	ton 60,175	3,655,986	55,453	3,795,955
Soya bean .....	" 324,975	19,818,822	356,234	23,316,077
Sunflower .....	—	•	—	•

TABLE 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group,  
1958 and 1959 - Continued

Item	1958		1959		
	Quantity	Selling value at works	Quantity	Selling value at works	
		\$		\$	
Oxygen in cylinders or delivered by pipeline .....	cu ft.	1,203,933,175	10,604,155	1,390,233,113	11,424,807
Paint:					
Paste paints (not including water-paste paints) .....	lb.	1,542,463	361,190	1,209,240	280,604
Semi-paste paints (not including water-thinned type) .....	Imp. gal.	326,286	1,396,582	132,537	435,518
Ready mixed paints and enamels:					
Exterior type .....	"	9,825,843	41,003,131	10,514,257	43,583,704
Interior type .....	"	11,444,445	51,526,861	11,638,512	52,506,133
Water-thinned paints and enamels:					
Latex base emulsion paints .....	"	3,092,903	12,554,017	3,684,301	14,706,490
Resins and other bases emulsion paints (paste and semi-paste) .....	"	460,304	1,403,674	477,030	1,473,929
Casein and other protein bound, glue bound:					
Dry .....	lb.	931,321	119,494	791,505	102,446
Paste and semi-paste .....	Imp. gal.	13,574	31,508	10,540	23,340
Plastic texture, paste and dry .....	lb.	271,506	26,865	241,355	27,266
Calcimines .....	"	759,649	95,950	577,049	56,181
Lime and cement bound .....	"	1,761,887	240,739	1,577,225	221,681
Other water-thinned paints .....	"	1,062,623	135,421	956,563	134,368
Insulating varnishes, electrical types .....	"	..	925,289	..	699,563
Dopes, cellulose nitrate and other dopes .....	Imp. gal.	..	..	..	..
Paint and varnish remover .....	"	155,345	487,351	165,648	510,501
Paraldehyde .....			.		.
Parathion .....			.		.
Paste:					
Dry powder .....		..	202,169	..	237,844
Liquid, including mucilage .....		..	449,348	..	292,110
Penicillin .....			.		.
Penicillin preparations .....		..	3,485,102	..	4,320,538
Pentazol acetate .....			.		.
Perchloroethylene .....			.		.
Phenol .....			.		.
Phenothiazine .....			.		.
Phosphorus:					
Amorphous .....			.		.
Yellow .....			.		.
Phenacetin .....			.		.
Phosphorous sesquisulphide .....			.		.
Phthalic anhydride .....			.		.
Patching material:					
For walls .....	lb.	11,895,007	1,081,865	11,681,577	1,096,132
For floors .....	"	584,700	142,086	704,177	173,683
Pitch, coal tar .....	ton	114,498	4,707,497	126,620	5,703,209
Polish:					
Automobile (including wax) .....		..	843,257	..	777,233
Brass .....		..	100,639	..	98,037
Furniture .....		..	1,322,980	..	1,003,709
Shoe and shoe dressing .....		..	1,351,434	..	1,054,466
Silver .....		..	228,710	..	165,281
Stove .....		..	24,790	..	25,275
Other .....		..	327,353	..	152,388
Polyethylene film .....			.		.
Polyvinyl alcohol .....			.		.
Potassium chlorate .....			.		.
Putty .....	lb.	15,688,981	1,580,281	10,615,223	1,427,296
Railway signal bombs and signal boxes .....			.		.
Resins, synthetic .....		1	1	1	1
Rollers, printers' .....		..	830,032	..	821,855
Rust preventives .....		..	561,540	..	673,508
Rubber plasticizers and accelerators .....			.		.
Rubber, synthetic .....	lb.	299,185,191	67,351,381	230,018,038	51,437,286
Sex hormones .....		..	3,017,526	..	2,806,000
Size .....		..	2,079,060	..	2,137,304

<sup>1</sup> See Table 5, Census of Industry bulletin "The Primary Plastics Industry" for available information on synthetic resins.



TABLE 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group,  
1958 and 1959 - Continued

Name	1958		1959	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Soap:				
Castile .....	lb. 351,849	53,509	378,761	55,602
Chips and flakes:				
Household packages .....	" 5,085,936	1,348,677	3,931,667	1,197,684
Bulk (including textile and mill) .....	" 12,435,868	1,570,620	10,754,610	1,418,852
Laundry, bar:				
Household:				
Built .....	" 1,023,186	115,677	1,159,703	134,544
Not built .....	" 14,338,040	2,408,571	13,033,374	2,538,091
Liquid .....	" 13,968,325	1,978,004	12,031,130	1,768,769
Powder:				
Household packages .....	" 29,714,748	7,160,864	22,707,781	6,062,719
Bulk .....	" 10,684,289	1,401,564	15,360,143	2,162,316
Shaving cream:				
Lather .....	" 1,023,715	1,392,394	905,622	1,332,418
Brushless .....	" 455,097	516,032	431,630	532,474
Other .....	" 261,685	247,802	312,280	347,437
Soft, paste and jelly .....	" 3,307,439	316,776	3,173,915	307,684
Toilet, bar .....	" 40,954,270	14,637,126	41,663,646	15,917,845
Other .....	" 2,755,104	375,115	4,127,341	547,952
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. 428,374,000	12,855,708	473,554,000	14,221,086
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. 301,190	1,040,378	306,514	1,102,987
Starches, blended .....	-	.	-	.
Stearine .....	-	.	-	.
Streptomycin .....	-	.	-	.
Streptomycin preparations .....	..	379,656	..	349,995
Sulphur dioxide, liquid .....	-	.	-	.
Styrene .....	-	.	-	.
Superphosphate fertilizer:				
Actually made .....	-	.	-	.
Milled, screened and bagged, only .....	ton 14,853	617,584	15,875	619,162
Sweeping compounds .....	..	984,124	..	1,030,020
2-ethylhexanol .....	-	.	-	.
Tankage .....	ton ..	..	..	..
Tanners' bate .....	-	.	-	.
Tar, refined .....	gal. 3,213,996	700,338	2,277,265	541,323
Textile and leather finishes .....	..	4,485,853	..	3,856,863
Thinners, for lacquers, paints and enamels .....	gal. 2,798,105	4,034,054	2,842,577	4,110,885
Toilet preparations (except dentifrices) .....	..	54,575,007	..	57,604,477
Trichlorethylene, crude .....	-	.	-	.
Turpentine .....	-	.	-	.

TABLE 11. Alphabetical List of Products Made in the Industries in the Chemicals and Allied Products Group, 1958 and 1959 - Concluded

Item	1958		1959	
	Quantity	Selling value at works	Quantity	Selling value at works
		\$		\$
Toluene .....	-	.	-	.
Vanillin .....	-	.	-	.
Varnishes (Japans, shellac, etc.) .....	gal. 4,365,362	10,655,299	3,536,041	10,526,154
Veterinary medicines .....	..	2,649,318	..	3,562,112
Vinyl acetate .....	-	.	-	.
Vitamin preparations .....	..	16,377,241	..	18,331,519
Washing blue .....	-	.	-	.
Washing compounds, other .....	..	2,116,717	..	2,870,149
Wax, floor:				
Paste .....	lb. 8,582,042	3,316,951	8,498,144	3,439,789
Liquid .....	gal. 4,335,852	12,307,293	4,544,919	12,656,858
Wax, sealing .....	-	.	-	.
Wax, paraffin, refined .....	-	.	-	.
Weed killer .....	..	2,342,635	..	3,574,780
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) .....	..	510,724,320	..	564,972,183
<b>Totals</b> .....	...	<b>1,293,331,692</b>	...	<b>1,378,211,030</b>

TABLE 12. Imports into Canada and Exports of Chemicals and Allied Products, 1920-59  
(Values in thousands of dollars)

Year	Total Canada	From or to United Kingdom		From or to United States	
		\$	%	\$	%
<b>(a) Imports</b>					
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
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	22,639	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
1959 .....	326,987	26,246	8.0	275,125	84.1
<b>(b) Exports</b>					
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
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 <sup>1</sup> .....	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
1959 .....	201,856	27,382	13.5	85,686	42.4

<sup>1</sup> Revised. Uranium ores and concentrates excluded from 1956 and subsequent years.

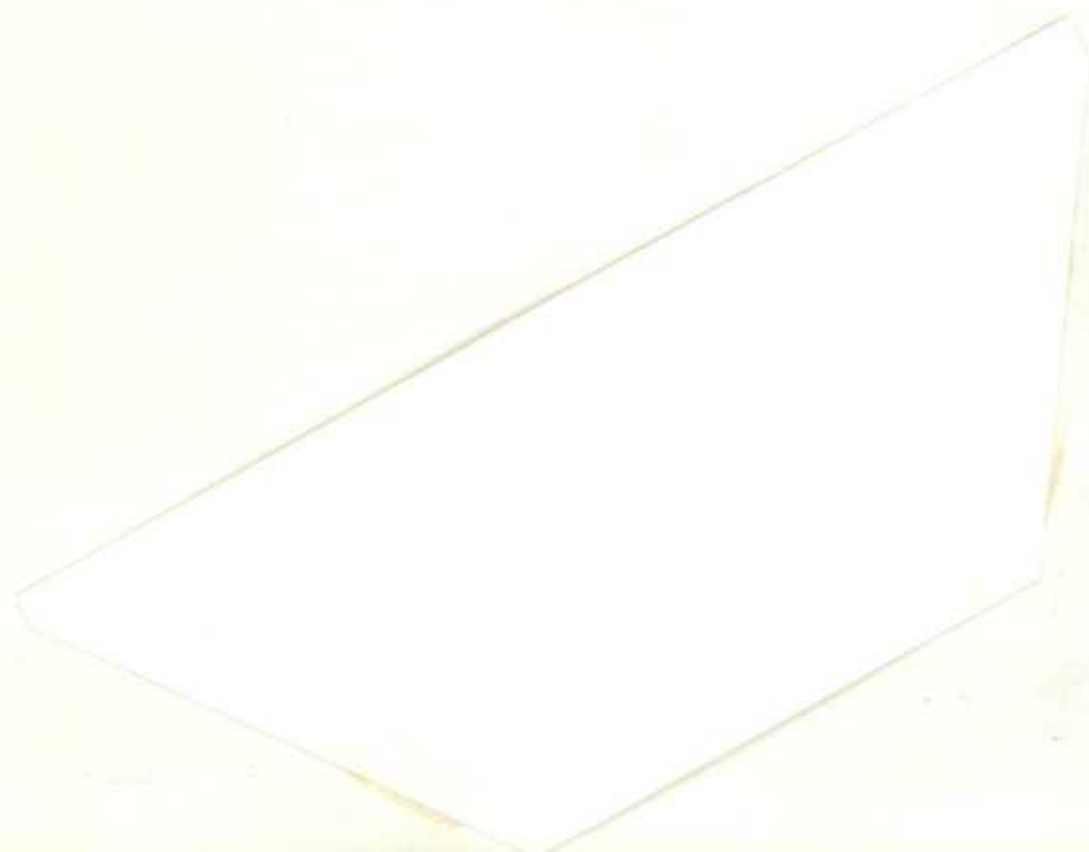


TABLE 13. Fuel and Electricity Used in the Manufacture of Chemicals and Allied Products in Canada, 1959

Kind	Quantity	Cost at plant
		\$
Establishments reporting commodity detail:		
Bituminous coal:		
(a) From Canadian mines .....	ton 52,938	629,495
(b) Imported .....	" 844,469	7,436,002
Sub-bituminous coal:		
(from Alberta mines only) .....	" 148	2,160
Anthracite coal .....	" 1,281	22,094
Lignite coal .....	" 616	4,224
Coke .....	" 24,424	186,646
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal. 2,193,130	809,632
Fuel oil including kerosene or coal oil .....	" 59,651,195	5,456,726
Wood .....	cord 1,903	10,087
Gas:		
(a) Liquefied petroleum gases .....	Imp. gal. 251,166	65,315
(b) Other manufactured gas .....	M cu. ft. 6,151,033	2,928,862
(c) Natural gas .....	" 16,090,326	3,199,203
Other fuel .....	—	326,365
Electricity purchased .....	kwh. 5,654,202,882	23,805,665
Steam purchased .....	..	5,238,389
Establishments reporting group detail:		
Cost of fuel .....	...	71,900
Cost of electricity .....	...	29,071
Estimate for establishments for which no data were collected:		
Cost of fuel and electricity .....	...	370,423
All establishments:		
Total cost of fuel and electricity .....	...	50,592,259

Note: For data by industries for 1959 refer to separate industry reports.







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