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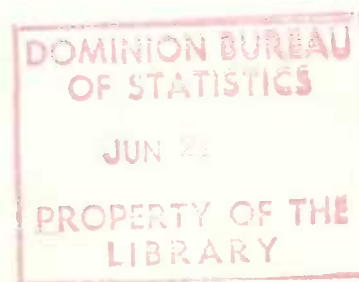
# THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1958

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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
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## 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.<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

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.

<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*.

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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.

## THE MISCELLANEOUS CHEMICAL PRODUCTS INDUSTRY, 1958

This industry covers the operations of a considerable number of concerns which make chemical products, but which, because of the diversified nature of their output, cannot be classified to any of the other main chemical groups. Products made in 1958 included charcoal, boiler compounds, sweeping compounds, matches, insecticides, disinfectants, dry colours, pigments, embalming fluid, explosives, ammunition, fireworks, anti-freeze and other automotive chemicals, etc. The manufacture of synthetic rubber also is included in this industry.

Of the 267 firms reporting in this industry in 1958, 128 were located in Ontario, 85 in Quebec, 26 in British Columbia, 11 in Alberta, 8 in Manitoba, 5 in Saskatchewan and 4 in Nova Scotia. These firms afforded employment to a total of 12,411 people who were paid \$53,169,953 in salaries and wages. They spent \$10,329,917 for fuel and electricity and \$105,608,965 for materials for use in manufacturing processes. The total value of factory shipments reported by these firms amounted to

\$217,508,017. The total production in Canada of certain miscellaneous chemical products, regardless of industrial grouping, is shown in Tables 5 to 12, while the results of a special survey on sales of pest control products by Canadian registrants is shown in Table 13.

**Note:** Due to 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 warehouse.

**TABLE 1. Principal Statistics of the Miscellaneous Chemical Products Industry, 1949-58, and by Provinces, 1957 and 1958**

Year and province	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost of materials at plant	Value added by manufacture <sup>1</sup>	Gross selling value of products <sup>1</sup>
	number		dollars				
1949 .....	208	7,145	17,175,387	5,436,456	44,065,072	37,931,469	87,432,997
1953 .....	251	12,527	39,524,954	8,185,181	88,124,634	80,180,174	176,489,989
1954 .....	258	13,483	43,449,377	8,726,824	101,390,267	91,475,977	201,340,257
1955 .....	261	12,698	43,943,157	8,254,029	112,236,255	96,659,281	218,032,459
1956 .....	259	12,457	46,029,320	9,047,062	116,206,917	101,529,704	226,427,832
<b>1957</b>							
Nova Scotia .....	4	15	44,248	8,129	75,614	87,125	170,672
Quebec .....	87	6,369	23,362,025	2,028,970	44,203,697	30,926,433	78,830,645
Ontario .....	128	5,290	23,977,145	7,704,357	62,164,367	60,342,449	128,105,429
Manitoba .....	6	132	466,939	17,823	1,483,621	1,316,747	2,811,625
Saskatchewan .....	4	30	89,932	2,596	557,013	232,035	753,519
Alberta .....	12	233	891,769	80,452	2,014,685	2,920,878	4,975,970
British Columbia .....	26	377	1,400,767	90,414	2,134,170	2,396,941	4,507,312
<b>Canada .....</b>	<b>267</b>	<b>12,446</b>	<b>50,232,825</b>	<b>9,932,741</b>	<b>112,633,167</b>	<b>98,222,608</b>	<b>220,155,372</b>
<b>1958</b>							
Nova Scotia .....	4	16	45,974	7,665	76,601	103,021	180,351
Quebec .....	85	5,902	23,340,197	2,090,182	34,449,150	33,973,114	69,470,876
Ontario .....	128	5,766	26,928,224	8,049,044	64,908,954	64,041,968	136,051,748
Manitoba .....	8	131	496,433	30,195	1,682,058	970,092	2,645,812
Saskatchewan .....	5	30	102,204	4,106	531,775	276,749	728,561
Alberta .....	11	213	886,658	76,770	1,985,831	2,074,414	4,170,367
British Columbia .....	26	353	1,370,263	71,955	1,974,596	2,111,102	4,260,302
<b>Canada .....</b>	<b>267</b>	<b>12,411</b>	<b>53,169,953</b>	<b>10,329,917</b>	<b>105,608,965</b>	<b>103,550,460</b>	<b>217,508,017</b>

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

**Note:** Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

**TABLE 2. Inventories,<sup>1</sup> 1958**

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
<b>Opening:</b>				
Nova Scotia .....	76,966	4,155	3,673	84,794
Quebec .....	30,087,825	7,080,861	4,744,046	41,912,732
Ontario .....	14,158,299	4,517,226	5,291,820	23,967,345
Manitoba .....	310,962	387	128,658	440,007
Saskatchewan .....	129,648	—	115,351	244,999
Alberta .....	548,102	30,178	239,058	817,338
British Columbia .....	504,993	21,925	399,955	926,873
<b>Canada .....</b>	<b>45,816,795</b>	<b>11,654,732</b>	<b>10,922,561</b>	<b>68,394,088</b>
<b>Closing:</b>				
Nova Scotia .....	95,737	9,651	5,113	110,501
Quebec .....	21,710,859	7,511,256	5,355,221	34,577,336
Ontario .....	12,869,922	4,293,217	6,464,047	23,627,186
Manitoba .....	481,119	8,850	156,728	646,697
Saskatchewan .....	237,143	—	199,420	436,563
Alberta .....	456,657	37,274	198,610	692,541
British Columbia .....	409,942	16,444	302,787	729,173
<b>Canada .....</b>	<b>36,261,379</b>	<b>11,876,692</b>	<b>12,681,926</b>	<b>60,819,997</b>

<sup>1</sup> (a) Book value of all manufacturing inventories owned and held at plant and plant warehouses.

(b) Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Miscellaneous Chemical Products Industry for the year under review are shown in the above table.

(c) The opening inventory for 1958 does not necessarily agree with the closing inventory for 1957 because of the addition of new plants, the transfer of plants to other industries and plants going out of business, etc. However, the value added figures for the previous year have not been recalculated to allow for the revisions mentioned above.

TABLE 3. Products Made in the Miscellaneous Chemical Products Industry, 1957 and 1958

Product	1957		1958	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Automobile chemicals:				
Brake fluid ..... Imp. gal.	327,731	1,009,767	318,567	1,021,918
Other (radiator compounds, anti-freeze, etc.)	...	2,367,849	...	3,958,613
Boiler chemicals:				
For use by railroads .....	..	609,248	..	446,459
For marine use .....	..	125,365	..	139,738
For industrial use .....	..	2,326,454	..	2,533,480
Cleaning preparations:				
Drain pipe and toilet bowl cleaners ..... lb.	1,902,314	296,829	182,972	34,947
Hand cleaners .....	963,894	197,236	661,804	148,651
Scouring pastes and powders .....	298,400	60,986	279,810	51,113
Other washing compounds and cleaning preparations .....	...	1,252,580	...	1,200,478
Disinfectants and deodorants .....	...	811,383	...	786,529
Embalming fluid .....	..	295,805	..	245,369
Floor wax, liquid and paste .....	...	775,692	...	729,887
Pest control products:				
Agricultural dusts and sprays (arsenicals, synthetic organics, copper compounds and seed treatments) .....	...	2,984,678	...	2,775,509
Herbicides (chlorates, borates, 2, 4-D, 2, 4, 5-T, etc.) .....	..	2,615,090	..	2,442,635
Other agricultural dusts and sprays .....	...	1,104,805	...	1,468,896
Household and industrial insecticides (fumigants, powders, dusts, sprays and repellants) .....	..	775,283	..	730,320
Rodenticides (mouse and rat poisons, gopher poisons, etc.) .....	..	199,461	..	247,278
Other pest control products .....	...	380,193	...	1,159,034
Matches, book .....	No. 592,311,068	1,907,305	641,011,856	2,195,680
Oils, 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	414,628	51,086
Neat's foot .....	179,247	33,042	166,732	31,714
Other, including special blends .....	3,263,327	336,205	2,336,455	277,311
Oils, except sulphonated .....	..	988,196	..	1,060,769
Rust preventives .....	..	656,737	..	561,540
Soaps:				
Liquid ..... lb.	4,906,448	710,811	3,774,714	620,050
Soft .....	446,544	47,601	604,938	57,375
Textile .....	366,387	55,395	365,086	57,600
Sweeping compounds .....	..	913,189	..	926,993
Synthetic rubber .....	lb. 290,351,068	65,988,164	299,185,191	67,351,381
Textile and leather specialties, n.e.s. ....	...	3,739,015	...	4,346,097
Welding and soldering compounds .....	..	38,550	..	18,563
Dry colours and pigments, including red lead, litharge, dry white lead, iron oxides, etc. ....	..	5,445,179	..	5,904,141
All other products, including explosives .....	...	120,948,710	...	113,816,990
<b>Total</b> .....	...	<b>220,155,372</b>	...	<b>217,508,017</b>

TABLE 4. Materials Used in the Miscellaneous Chemical Products Industry,  
1957 and 1958

Material	1957		1958		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Acetone .....	lb.	1, 149, 599	97, 972	981, 075	85, 959
Acid - Acetic .....	"	714, 170	74, 592	610, 192	67, 335
Cresylic (including cresols) .....	"	148, 451	22, 919	159, 947	23, 023
Hydrochloric (muriatic).....	"	1, 962, 172	58, 999	1, 145, 442	36, 560
Nitric.....	"	8, 321, 211	308, 936	11, 827, 537	411, 451
Oleic .....	"	483, 702	89, 390	481, 570	87, 077
Oxalic .....	"	146, 103	22, 515	101, 389	17, 618
Phosphoric .....	"	1, 156, 559	93, 627	1, 013, 582	85, 566
Stearic.....	"	870, 793	128, 004	1, 460, 844	144, 514
Sulphuric, 100%.....	"	79, 553, 119	1, 117, 211	66, 727, 065	994, 244
Alcohol - Butyl (including isobutanol).....	"	316, 390	49, 476	78, 639	12, 418
Ethyl .....	Imp. gal.	50, 977	60, 058	93, 394	108, 228
Isopropyl .....	lb.	2, 396, 552	191, 744	2, 381, 320	175, 207
Methyl .....	Imp. gal.	178, 824	100, 402	167, 376	98, 163
Aldrin, technical.....	lb.	344, 407	243, 393	507, 306	343, 504
Aluminum, powdered and atomized.....	"	279, 043	98, 611	328, 309	134, 977
Aluminum strip .....	"	54, 071	25, 398	47, 763	22, 126
Aluminum sulphate (alum) .....	"	1, 012, 307	28, 380	1, 034, 680	30, 039
Ammonia, anhydrous.....	"	45, 683, 743	2, 104, 947	47, 657, 528	2, 182, 013
Ammonium chloride.....	"	61, 180	5, 008	3, 810	438
Ammonium nitrate .....	"	10, 866, 338	342, 575	15, 377, 177	494, 794
Arsenic, white (As <sub>2</sub> O <sub>3</sub> ).....	"	49, 563	2, 877	60, 927	3, 433
Arsenic acid (As <sub>2</sub> O <sub>5</sub> ).....	"	533, 023	23, 885	438, 022	18, 758
Barium nitrate .....	"	171, 722	21, 365	114, 977	14, 208
Benzol .....	"	81, 253, 592	4, 080, 367	79, 609, 246	3, 644, 196
Brass strip.....	"	4, 944, 325	1, 847, 642	2, 481, 689	842, 016
Butyl cellulose .....	"	303, 670	67, 973	424, 001	93, 453
Calcium arsenate .....	"	213, 110	17, 896	143, 365	13, 210
Calcium carbonate (whiting and chalk).....	"	2, 682, 174	31, 236	2, 401, 606	29, 424
Calcium chloride.....	"	1, 587, 636	36, 767	1, 201, 514	30, 170
Carbon tetrachloride.....	"	216, 564	30, 553	124, 707	18, 792
Charcoal.....	"	89, 081	4, 271	85, 489	3, 841
Chlorine, liquid.....	"	924, 098	23, 684	462, 097	17, 674
Clays .....	ton	907	50, 444	2, 474	63, 119
Copper sulphate .....	lb.	213, 605	61, 039	248, 005	61, 648
Corn starch .....	"	849, 694	64, 503	855, 678	65, 448
D.D.T. (dichloro, diphenyl trichlorethane) .....	"	645, 245	128, 836	829, 738	159, 336
Dibutyl phthalate .....	"	65, 774	19, 415	35, 608	10, 466
Dieldrin, technical .....	"	17, 262	26, 668	-	-
Dinitrophenol.....	"	12, 695	3, 273	10, 861	2, 791
Diphenylamine.....	"	10, 263	3, 432	3, 172	1, 153
Ethanolamines (mono, di, tri, etc) .....	"	1, 211, 227	327, 143	1, 796, 105	500, 651
Ethylene glycol (see also glycols) .....	"	17, 040, 949	2, 271, 248	21, 244, 436	2, 758, 027
Formaldehyde, 40% <sup>1</sup> .....	"	1, 344, 582	61, 565	547, 687	43, 340

<sup>1</sup> 100% in 1958.



TABLE 4. Materials Used in the Miscellaneous Chemical Products Industry,  
1957 and 1958 - Continued

Material	1957		1958		
	Quantity	Cost at works	Quantity	Cost at works	
		\$		\$	
Glycerine .....	lb.	4,621,808	1,141,474	3,878,323	960,115
Glycols, other (see also ethylene type) .....	"	1,217,416	246,006	1,406,049	289,437
Glue .....	"	1,022,188	232,576	1,064,418	228,868
Grease .....	"	1,852,563	161,325	834,375	78,188
Gums and resins, natural .....	"	383,274	67,288	414,306	70,612
Gunpowder .....	"	916,497	516,546	1,001,563	599,260
Iron, scrap .....	ton	5,466	223,507	4,320	123,797
Lead arsenate .....	lb.	17,500	3,539	-	-
Lead, pig .....	"	7,267,139	1,161,502	7,772,399	983,594
Litharge .....	"	2,004,730	346,796	1,923,298	288,013
Lime .....	ton	14,150	188,444	15,633	214,340
Lindane, technical .....	lb.	104,581	148,369	55,235	76,033
Malathion, technical .....	"	120,922	110,565	215,282	186,085
Naphthalene .....	"	1,906,856	136,133	1,575,232	101,390
Nitrocotton .....	"	394,644	181,750	388,728	180,573
<b>Oils - Castor</b> .....	"	1,114,562	223,350	1,204,686	197,347
China wood .....	"	18,604	4,093	159,041	25,447
Cocconut .....	"	610,447	91,017	533,484	80,738
Cod .....	"	1,236,712	125,922	572,046	54,800
Essential .....	"	..	73,783	..	77,978
Fish .....	lb.	1,238,132	122,767	1,713,717	184,147
Lard .....	"	1,065,133	161,074	1,184,554	164,443
Linseed - Raw .....	Imp. gal.	97,428	124,456	101,927	131,593
Boiled or processed .....	"	20,536	28,163	5,500	6,800
Mineral .....	"	1,374,636	381,197	1,287,083	360,490
Neat's foot .....	lb.	528,342	78,073	426,413	75,074
Pine .....	"	354,505	57,360	322,004	38,158
Soybean .....	"	1,120,844	162,598	1,377,785	163,824
Tall .....	"	962,824	48,401	1,093,484	64,264
Other oils .....	"	-	363,281	..	316,346
Paradichlorobenzene .....	lb.	1,297,448	159,739	1,755,757	216,095
Pentachlorophenol .....	"	55,680	14,199	25,811	6,724
Petroleum distillates (naphtha, gasoline, etc.) .....	Imp. gal.	825,077	286,299	1,101,175	304,668
Phenol .....	lb.	283,702	55,068	295,618	53,520
Phosphorus, amorphous .....	"	49,057	19,309	34,240	18,425
Phosphorus sesquisulphide .....	"	42,075	17,636	44,906	19,725
Phthalic anhydride .....	"	215,194	40,881	283,345	45,754
Potassium - Bichromate .....	"	232,532	38,639	138,744	24,994
Chlorate .....	"	1,035,496	130,550	1,029,820	142,861
Hydroxide .....	"	636,169	54,644	596,772	48,592
Nitrate .....	"	216,856	16,706	636,741	45,519
Perchlorate .....	"	126,896	22,324	91,636	17,087
Sulphate .....	"	12,004	1,859	8,208	1,269
Pyrethrum .....	"	14,060	13,308	12,712	15,444
Resins, synthetic .....	"	...	234,047	...	425,752

**TABLE 4. Materials Used in the Miscellaneous Chemical Products Industry,  
1957 and 1958 - Concluded**

Material	1957		1958	
	Quantity	Cost at works	Quantity	Cost at works
		\$		\$
Rotenone .....	lb. 240,293	82,541	208,573	70,073
Silica sand or ground quartz .....	ton 1,500	43,592	1,116	28,808
Sodium bicarbonate .....	lb. 156,718	7,981	146,481	6,872
Sodium bichromate .....	" 2,374,549	330,346	2,751,617	376,768
Sodium carbonate (soda ash) .....	" 11,873,167	329,310	9,224,789	238,608
Sodium chlorate .....	" 4,423,212	391,719	2,764,564	241,445
Sodium chloride (common salt) .....	" 30,505,165	70,192	32,401,584	67,626
Sodium fluoride .....	" 326,032	37,314	239,772	27,542
Sodium hydroxide (caustic soda) .....	" 14,567,428	538,432	16,570,202	596,706
Sodium nitrate .....	" 44,065,829	1,223,721	32,870,552	848,609
Sodium, phosphates of - Monosodium phosphate .....	" 528,579	59,652	505,425	55,152
- Disodium phosphate .....	" 1,573,101	146,038	983,934	103,958
Trisodium phosphate .....	" 2,896,430	184,944	2,485,181	158,427
Tetrasodium phosphate .....	" 791,521	73,419	90,039	11,439
Sodium tripolyphosphate .....	" 2,175,547	205,957	2,375,838	249,239
Tetrasodium pyrophosphate .....	" 1,426,358	139,901	720,190	71,958
Sodium prussiate .....	" 475,680	69,862	438,907	63,932
Sodium silicate .....	" 21,303,158	263,789	62,090,809	679,045
Sodium sulphite, anhydrous .....	" 250,300	11,834	95,500	5,329
Strontium nitrate .....	" 789,149	94,633	455,483	56,640
Strychnine .....	" 449	5,742	-	-
Sulphur .....	ton 7,235	272,380	13,318	439,312
Talc .....	" 3,092	70,540	4,216	71,423
Toluol .....	lb. 3,831,151	182,998	2,562,266	106,212
Urea .....	" 413,626	25,010	432,148	25,326
Wax - Beeswax .....	" 4,633	2,464	5,811	1,961
Candelilla .....	" 7,896	5,812	-	-
Carnauba .....	" 86,349	82,755	37,182	39,827
Paraffin, including slackwax .....	" 49,535,868	2,659,221	58,616,973	2,537,910
Other .....	" 493,843	128,032	527,407	137,710
Xylol .....	" 877,369	47,957	1,385,477	70,647
Zinc oxide .....	" 620,940	87,863	524,084	71,417
2, 4-D .....	" 1,663,608	642,077	1,819,545	750,117
Miscellaneous materials:				
Hardwood (for charcoal) .....	cord 11,308	117,481	13,560	152,507
Paperboard .....	lb. 3,652,417	296,499	7,731,652	700,135
Wood - flour, pulp and sawdust .....	..	130,719	..	65,224
Wood blocks .....	M bd. ft. 3,161	511,551	3,117	504,007
Wood splints .....	..	141,656	..	156,616
Yarns, jute and cotton, and cotton linters .....	...	354,612	...	368,680
All other materials .....	...	70,797,480	...	65,660,407
Containers, boxes, etc. ....	...	9,278,839	...	8,132,760
<b>Total .....</b>	<b>...</b>	<b>112,633,167</b>	<b>...</b>	<b>105,608,965</b>

**TABLE 5. Factory Shipments of Boiler Compounds, 1954 - 58**  
(from All Industries)

Year	For use by railroads	For marine use	For industrial use	Total
	Selling value at works	Selling value at works	Selling value at works	Selling value at works
	dollars			
1954 .....	817,000	48,000	1,923,000	2,788,000
1955 .....	876,000	64,000	2,268,000	3,208,000
1956 .....	950,000	126,000	2,270,000	3,346,000
1957 .....	609,000	125,000	2,489,000	3,223,000
1958 .....	446,000	140,000	2,653,000	3,239,000

**TABLE 6. Factory Shipments<sup>1</sup> of Charcoal, 1954 - 58**

Year	Quantity
	tons
1954 .....	14,202
1955 .....	9,050
1956 .....	13,334
1957 .....	13,234
1958 .....	15,112

<sup>1</sup> In addition to tonnages reported by major charcoal producers to the annual Census of Industry, figures in above table include, as well, tonnages reported to the Department of Lands and Forests for the Province of Quebec by a large number of small charcoal burners in Quebec which normally do not report to the annual Census of Industry. The basis used in reporting values to the Department of Lands and Forests for the Province of Quebec differs from that used in the annual Census of Industry. Under these circumstances a consolidation of the value figures from the two surveys would not result in a meaningful total and, therefore, value figures have been omitted from the above table.

**TABLE 7. Factory Shipments of Disinfectants and Deodorants, 1954 - 58**  
(from All Industries)

Year	Disinfectants	Deodorants <sup>1</sup>
	Selling value at works	Selling value at works
	dollars	
1954 .....	928,000	740,000
1955 .....	1,167,000	724,000
1956 .....	1,201,000	866,000
1957 .....	1,275,000	696,000
1958 .....	1,325,000	848,000

<sup>1</sup> Does not include personal type.

**TABLE 8. Factory Shipments of Pest Control Products of all Kinds,<sup>1</sup> 1954 - 58  
(from All Industries)**

Year	Selling value at works
	\$
1954.....	7,011,000
1955.....	8,284,000
1956.....	6,785,000
1957.....	6,874,000
1958.....	8,049,456

<sup>1</sup> Calcium arsenate, lead arsenate, lime-sulphur solution, Paris green, sodium arsenate, sodium arsenite and special poisons, sprays, powders, etc., usually classed as pest control products, are included in this category; herbicides, shown separately in Table 12, are not included.

**TABLE 9. Factory Shipments of Book Matches, 1954 - 58**

Year	Quantity	Selling value at works
	No.	\$
1954.....	483,690,000	1,838,000
1955.....	457,184,000	1,715,000
1956.....	498,560,000	2,183,000
1957.....	592,311,000	1,907,000
1958.....	641,012,000	2,196,000

**TABLE 10. Factory Shipments of Synthetic Rubber, 1954 - 58**

Year	Quantity	Selling value at works
	pounds	\$
1954.....	195,819,000	45,509,000
1955.....	229,735,000	54,278,000
1956.....	271,803,000	63,325,000
1957.....	290,351,000	65,988,000
1958.....	299,185,000	67,351,000

**TABLE 11. Factory Shipments of Sweeping Compounds, 1954-58  
(from All Industries)**

Year	Selling value at works
	\$
1954 .....	685,000
1955 .....	788,000
1956 .....	852,000
1957 .....	933,000
1958 .....	944,000

**TABLE 12. Factory Shipments of Herbicides (Weed killer), 1954-58  
(from All Industries)**

Year	Selling value at works
	\$
1954 .....	1,675,000
1955 .....	1,821,000
1956 .....	2,092,000
1957 .....	2,897,000
1958 .....	2,443,000

**TABLE 13. Sales of Pest Control Products by Canadian Registrants,  
12 Months Ended September 30, 1958**

	Quantity	Value
		\$
<b>(A) Agriculture</b>		
Adjuvants:		
Soaps, blood albumen, casein, oil spreaders, stickers, etc.....	...	10,320
Crop and seed treatment - Agricultural dusts and sprays:		
Arsenicals:		
Arsenate of lead .....	lb. 948,587	245,393
Calcium arsenate .....	" 281,584	19,545
2% arsenic dusts (without copper).....	" 2,736,170	95,337
Paris green.....	" 34,982	11,466
Botanicals:		
Rotenone dusts (containing not more than 1% rotenone) .....	" 569,975	147,804
Other botanicals (including ryania dusts, etc.).....	" 66,194	38,955

TABLE 13. Sales of Pest Control Products by Canadian Registrants,  
12 Months Ended September 30, 1958 - Continued

	Quantity	Value
		\$
(A) Agriculture - Continued		
Crop and seed treatment - Agricultural dust and spray - Continued:		
Synthetic organics:		
Aldrin - Dusts .....	...	175,903
Emulsions and wettable powders .....	...	346,210
B.H.C. and lindane - Emulsions .....	lb. 45,381	14,718
Wettable powders and dusts .....	" 26,251	32,895
Chlordane - Dusts .....	lb. 199,651	36,091
Emulsions .....	Imp. gal. 3,206	22,702
Wettable powders .....	lb. 7,242	3,992
Dieldrin - Dusts .....	" 79,423	24,497
Emulsions .....	Imp. gal. 10,204	75,739
Wettable powders .....	lb. 9,827	14,269
Dinitro compounds (phenol and cresol) .....	" 87,081	45,422
DDT - Dusts .....	" 900,855	67,262
25% emulsifiable solutions .....	Imp. gal. 114,005	228,677
50% wettable powders .....	lb. 1,598,344	403,987
Endrin - Dusts .....	" 198,916	22,951
Emulsions .....	lb. 39,325	208,117
Malathion - Dusts .....	lb. 220,561	27,793
Emulsions .....	Imp. gal. 17,561	211,268
Wettable powders .....	lb. 424,902	218,647
Methoxychlor .....	" 61,187	45,657
Parathion - Parathion bombs .....	No. 793	3,306
Dusts .....	lb. 21,312	8,593
15% wettable powder .....	" 171,002	86,233
Emulsions .....	lb. 2,190	6,230
T.E.P.P. and H.E.T.P. (all forms) .....	...	14,628
Toxaphene emulsions .....	...	131,911
Soil fumigants .....	lb. 84,129	36,171
Specific Acaracides (including dimite, sulphenone, tedion, neotran, merfesco, ovex and ovotran, ardmite, kelthane, fensome, elimite, etc.) .....	162,532	129,387
Other synthetic organics .....	...	495,986
Copper compounds (with and without an insecticide):		
Copper sulphate .....	lb. 1,181,360	113,257
Fixed copper spray materials .....	" 217,982	82,702
Fixed copper spray materials with DDT .....	" 94,101	33,154
Fixed copper dusts with DDT or arsenic or both .....	" 1,226,685	161,841
Other copper compounds (including copper lime dusts, dry Bordeaux mixture, etc.) .....	...	32,233
Other than copper fungicides:		
Liquid lime-sulphur .....	Imp. gal. 113,252	38,282
Dusting sulphurs - Without insecticide .....	lb. 46,996	2,693
With insecticide .....	" -	-
Wettable sulphurs - Without insecticide .....	" 731,789	67,748
With insecticide .....	" 133,467	57,296
Other sulphurs (including dry lime-sulphur, dusting sulphur, etc.) .....	" 367,792	26,136
Dithiocarbamates - Nabam .....	lb. 670,388	161,385
Other dithiocarbamates:		
- Without insecticide .....	lb. 1,784,895	729,709
With insecticide .....	" 757,628	96,380
Mercurial fungicides (except seed treatments) .....	" 78,249	76,410
Other fungicides not seed treatments (including captan, crag, glyodin, etc.) .....	" 1,519,916	853,550
Seed treatments:		
Organic mercurials - Liquid mixtures .....	...	293,516
Dry mixtures .....	...	326,558
Chlorobenzene .....	lb. 58,780	34,792
Fungicide insecticide combination treatments:		
Lindane plus fungicide .....	" 112,861	219,267
Aldrin plus fungicide .....	" 90,158	148,294
"Other" insecticides plus fungicide .....	" 117,514	128,164
Other seed treatments .....	" 191,976	144,000
Nicotine:		
Nicotine sulphate .....	" 4,313	20,615
Other nicotine preparations .....	" 200	130

**TABLE 13. Sales of Pest Control Products by Canadian Registrants,  
12 Months Ended September 30, 1958 - Continued**

	Quantity	Value
		\$
<b>(A) Agriculture - Concluded</b>		
Crop and seed treatment - Agricultural dusts and sprays - Concluded:		
Miscellaneous:		
Zinc compounds, including zinc "safeners" e.g., zinc sulphate .....	lb. 611,613	68,464
Mineral oils for dormant or foliage spraying .....	Imp. gal. 170,057	59,276
Other agricultural dusts and sprays, including hydrated lime .....	...	307,761
<b>Total agricultural dusts and sprays .....</b>	<b>...</b>	<b>7,976,356</b>
Livestock treatments (including poultry):		
Wormers:		
Coccidiosis treatments (except medicated feeds) .....	lb. 161,484	314,196
Phenothiazene .....	" 40,578	52,270
Other wormers .....	...	132,733
Other livestock treatments:		
Blackhead treatments .....	...	1
Animal insect powder (except next item) .....	lb. 378,150	136,536
Warble powders and washes .....	" 225,976	133,734
Barn sprays for residual effects .....	Imp. gal. 14,891	84,159
Livestock sprays .....	" 125,550	249,251
Self-propelled livestock sprays .....	No. 19,353	15,121
Other livestock treatments .....	...	585,091
<b>Total livestock treatments .....</b>	<b>...</b>	<b>1,703,091</b>
Herbicides <sup>2</sup> :		
Arsenicals .....	Imp. gal. 20,311	32,549
Borates, chlorates and borate-chlorate mixtures .....	lb. 4,325,370	361,918
Cyanamides and cyanates .....	" 299,452	33,917
Dinitros .....	" 63,021	77,985
I.P.C. and C.I.P.C. .....	" 24,998	34,165
Mineral oils .....	...	2
T.C.A. .....	lb. of acid 303,458	99,051
M.C.P.A. <sup>3</sup> - Ester .....	" 207,642	253,079
Amine .....	" 353,642	393,053
Other M.C.P.A. formulations .....	" 58,150	71,385
2,4,5 - T formulations <sup>3</sup> - Ester .....	" 354,036	382,303
Amine .....	" 12,776	9,467
2,4 - D formulations <sup>3</sup> - Ester dust .....	" 144,576	152,169
Ester liquid .....	" 2,669,499	2,000,180
Amine liquid .....	" 665,337	495,807
Other 2,4-D formulations .....	" ...	18,822
2,4 - D,2,4,5 - T mixtures .....	...	584,534
- 2,4-D portion .....	lb. of acid 224,591	-
2,4,5-T portion .....	" 211,262	-
Soil sterilants n.e.s. (including CMU, erban, simazon, dalapon, creosate, etc. and mixtures of same) .....	...	419,250
Other herbicides .....	...	246,343
<b>Total herbicides .....</b>	<b>...</b>	<b>5,665,977</b>
<b>(B) Household and Industrial Insecticides</b>		
Fumigants (excluding soil fumigants):		
Naphthalene .....	lb. 1,199,222	182,360
Paradichlorobenzene .....	" 2,517,552	854,507
Other fumigants (except soil fumigants) .....	...	213,056
Powders and dusts:		
DDT insect powders .....	lb. 16,013	9,495
DDT insect powders with pyrethrum .....	" 16,358	10,862
Insect powders (without DDT) .....	" 16,394	18,596
Lindane (for vaporizers) .....	" 2,475	24,249
Lindane vaporizers - Continuous type .....	No. 1,200	16,000
Non-continuous type .....	...	-
Chlordane insect powders .....	lb. 27,336	8,064
Other powders and dusts (including insect smokes) .....	...	28,854
Fly baits .....	lb. 129,973	57,496

See footnotes at end of table.

**TABLE 13. Sales of Pest Control Products by Canadian Registrants,  
12 Months Ended September 30, 1958 - Concluded**

	Quantity	Value
		\$
<b>(B) Household and Industrial Insecticides - Concluded</b>		
Sprays and aerosol bombs:		
Space or air sprays without DDT .....	Imp. gal. 22,097	113,835
Space or air sprays with DDT .....	" 23,224	127,278
Residual sprays with 5% DDT .....	" 35,802	84,104
Residual sprays with other than DDT .....	" 43,650	149,047
Mill and warehouse sprays, (pyrethrum type etc.) .....	" 25,291	140,325
Self-propelled insecticides (e.g. aerosols):		
Space spray type .....	No. 2,053,092	1,509,370
Residual type .....	" 224,079	173,193
Mosquito and fly repellents:		
Dimethyl phthalate, indalone, ethyl hexandiol, toluamide, etc. ....	...	341,864
Other household and industrial insecticides .....	...	144,507
<b>Total household and industrial insecticides .....</b>	<b>...</b>	<b>4,207,062</b>
<b>(C) Rodenticides</b>		
Mouse and rat poisons:		
Warfarin and pival type - 0.5% .....	lb. 22,774	50,328
0.025% .....	" 454,920	188,671
Other mouse and rat poisons .....	" 103,257	102,807
Other rodenticides (mole killers, gopher poisons, etc.) .....	...	6,986
<b>Total rodenticides .....</b>	<b>...</b>	<b>348,792</b>
<b>Total pest control products specified in detail .....</b>	<b>...</b>	<b>19,911,598</b>
<b>Total pest control products not specified in detail .....</b>	<b>...</b>	<b>700,000</b>
<b>Grand total all pest control products .....</b>	<b>...</b>	<b>20,611,598</b>

<sup>1</sup> Included with "Other livestock treatments".

<sup>2</sup> Included with "Other herbicides".

<sup>3</sup> Firms reporting M.C.P.; 2,4,5-T and 2,4-D were asked to record their sales on a basis of acid equivalent, i.e.: (a) 10,000 gallons of a 64 oz. ester were to be recorded as 40,000 lb.; (b) 100,000 lb. of a 2,4-D dust (5%) were to be recorded as 5,000 lb.; (c) 5,000 gallons of an 80 oz. amine were to be recorded as 25,000 lb.

**TABLE 14. Principal Statistics of the Miscellaneous Chemical Products Industry, classified  
according to Type of Ownership, 1957 and 1958**

Type	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
1957	number		dollars			
Individual ownership .....	46	140	356,611	26,258	423,215	1,061,338
Partnerships .....	8	27	54,750	7,952	78,838	220,166
Incorporated companies .....	213	12,279	49,821,464	9,898,531	112,131,114	218,873,868
<b>Total .....</b>	<b>267</b>	<b>12,446</b>	<b>50,232,825</b>	<b>9,932,741</b>	<b>112,633,167</b>	<b>220,155,372</b>
1958	number		dollars			
Individual ownership .....	44	122	324,606	19,373	338,162	874,229
Partnerships .....	6	23	56,346	5,790	92,188	211,133
Incorporated companies .....	216	12,266	52,789,001	10,304,754	105,178,615	216,422,635
Co-operative .....	1					
<b>Total .....</b>	<b>267</b>	<b>12,411</b>	<b>53,169,953</b>	<b>10,329,917</b>	<b>105,608,965</b>	<b>217,508,017</b>



**TABLE 15. Principal Statistics of the Miscellaneous Chemical Products Industry, grouped according to Size of Establishment, 1957 and 1958**

Establishments reporting a value of factory shipments	Estab-lish-ments	Em-ployees	Salaries and wages	Cost of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
1957						
Under \$10,000 .....	29	46	61,158	5,890	69,795	150,971
\$10,000 to \$24,999 .....	33	95	233,647	21,015	178,729	510,525
\$25,000 " \$49,999 .....	34	130	372,719	28,072	584,786	1,243,892
\$50,000 " \$99,999 .....	41	333	1,033,935	57,308	1,400,668	3,055,216
\$100,000 " \$199,999 .....	47	398	1,499,074	109,290	3,261,634	6,415,710
\$200,000 " \$499,999 .....	29	621	2,437,400	216,717	5,315,747	10,275,243
\$500,000 " \$999,999 .....	21	693	2,792,194	475,864	7,126,448	14,456,531
\$1,000,000 " \$4,999,999 .....	28	3,258	11,914,590	1,303,284	27,033,717	53,888,139
\$5,000,000 and over .....	5	6,121	25,756,883	7,715,301	67,661,643	130,159,145
Head offices .....	—	751	4,131,225	—	—	—
<b>Total .....</b>	<b>267</b>	<b>12,446</b>	<b>50,232,825</b>	<b>9,932,741</b>	<b>112,633,167</b>	<b>220,155,372</b>
1958						
Under \$10,000 .....	29	45	68,933	6,221	64,954	172,405
\$10,000 to \$24,999 .....	31	93	197,009	14,052	202,617	513,860
\$25,000 " \$49,999 .....	37	168	515,803	31,095	582,073	1,362,508
\$50,000 " \$99,999 .....	31	238	744,833	49,277	1,050,450	2,362,849
\$100,000 " \$199,999 .....	44	379	1,399,855	88,834	2,791,903	6,065,877
\$200,000 " \$499,999 .....	40	590	2,380,234	176,316	6,610,411	13,112,253
\$500,000 " \$999,999 .....	22	672	2,853,927	282,677	7,385,832	15,472,734
\$1,000,000 " \$4,999,999 .....	28	3,553	14,012,945	1,794,889	28,074,701	56,894,941
\$5,000,000 and over .....	5	5,932	26,764,603	7,886,556	58,846,024	121,550,590
Head offices .....	—	741	4,231,811	—	—	—
<b>Total .....</b>	<b>267</b>	<b>12,411</b>	<b>53,169,953</b>	<b>10,329,917</b>	<b>105,608,965</b>	<b>217,508,017</b>

**TABLE 16. Capital and Repair Expenditures in the Miscellaneous Chemical Products Industry, 1954 - 58**

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures
	Construc-tion	Machinery and equipment		Construc-tion	Machinery and equipment		
thousands of dollars							
1954 .....	3,296	7,319	10,615	1,595	8,574	10,169	20,784
1955 .....	3,314	6,911	10,225	920	6,426	7,346	17,571
1956 .....	13,283	20,904	34,187	1,387	6,691	8,078	42,265
1957 .....	7,705	15,861	23,566	1,713	9,612	11,325	34,891
1958 .....	9,663	23,651	33,314	1,606	10,430	12,036	45,350

Note: Figures for the current year are preliminary.

TABLE 17. Employees and their Earnings, by Provinces, 1957 and 1958

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
<b>1957</b>								
Nova Scotia .....	5	2	8	—	15	24,686	19,562	44,248
Quebec .....	1,509	593	3,297	970	6,369	9,844,531	13,517,494	23,362,025
Ontario .....	1,336	564	3,091	299	5,290	9,905,022	14,072,123	23,977,145
Manitoba .....	47	37	45	3	132	321,936	145,003	466,939
Saskatchewan .....	7	3	18	2	30	39,088	50,844	89,932
Alberta .....	68	19	145	1	233	327,574	564,195	891,769
British Columbia .....	127	52	187	11	377	720,768	679,999	1,400,767
<b>Canada .....</b>	<b>3,099</b>	<b>1,270</b>	<b>6,791</b>	<b>1,286</b>	<b>12,446</b>	<b>21,183,605</b>	<b>29,049,220</b>	<b>50,232,825</b>
<b>1958</b>								
Nova Scotia .....	8	1	7	—	16	28,898	17,076	45,974
Quebec .....	1,560	571	2,865	906	5,902	10,525,233	12,814,964	23,340,197
Ontario .....	1,340	603	3,442	381	5,766	10,852,870	16,075,354	26,928,224
Manitoba .....	42	26	58	5	131	297,294	199,139	496,433
Saskatchewan .....	7	4	16	3	30	47,179	55,025	102,204
Alberta .....	59	19	135	—	213	339,558	547,100	886,658
British Columbia .....	109	49	180	15	353	645,197	725,066	1,370,263
<b>Canada .....</b>	<b>3,125</b>	<b>1,273</b>	<b>6,703</b>	<b>1,310</b>	<b>12,411</b>	<b>22,736,229</b>	<b>30,433,724</b>	<b>53,169,953</b>

TABLE 18. Production Workers in the Miscellaneous Chemical Products Industry, by Months, 1958

Month	Establishments reporting monthly detail <sup>1</sup>			Establishments not reporting monthly detail <sup>1</sup>			All establishments		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	number								
January .....	6,361	1,255	7,616						
February .....	6,399	1,271	7,670						
March .....	6,470	1,290	7,760						
April .....	6,448	1,275	7,723						
May .....	6,523	1,289	7,812	232	59	291	6,755	1,348	8,103
June .....	6,723	1,258	7,981						
July .....	6,655	1,279	7,934						
August .....	6,545	1,229	7,774						
September .....	6,495	1,260	7,755						
October .....	6,507	1,235	7,742						
November .....	6,306	1,216	7,522						
December .....	6,241	1,185	7,426						
<b>Average<sup>2</sup> .....</b>							<b>6,703</b>	<b>1,310</b>	<b>8,013</b>

<sup>1</sup> The number of production workers by months was generally collected only for establishments reporting value of shipments of \$100,000 and over. For smaller establishments, only the number employed during the last pay period of May, 1958, was collected.

<sup>2</sup> The average for establishments generally reporting shipments of less than \$100,000 was estimated by using average annual earnings data from the large establishments in conjunction with reported payrolls for the small establishments.

TABLE 19. Fuel and Electricity Used in the Miscellaneous Chemical Products Industry, 1958

Kind	Quantity	Cost at works
		\$
<b>1. Establishments reporting commodity detail:<sup>1</sup></b>		
Bituminous coal (a) From Canadian mines .....	ton 18,706	225,133
(b) Imported .....	" 578,521	4,682,615
Anthracite coal .....	" 638	11,096
Lignite coal .....	" 443	2,911
Coke .....	" 8,737	67,918
Gasoline, including gasoline used in cars and trucks .....	Imp. gal. 463,600	155,991
Fuel oil .....	" 15,098,518	1,464,925
Wood .....	cord 2,515	12,675
Gas (a) Liquefied petroleum gases .....	Imp. gal. 15,773	4,910
(b) Other manufactured gases .....	M cu. ft. 4,345,108	2,273,134
(c) Natural gas .....	" 252,360	99,490
Other fuel .....	..	6,559
Electricity purchased .....	kwh. 109,807,483	1,016,395
Steam purchased .....	..	222,668
Electricity generated for own use .....	kwh. 132,301,369	...
<b>2. Establishments not reporting commodity detail:<sup>1</sup></b>		
Cost of fuel .....	..	55,783
Cost of electricity purchased .....	..	27,714
<b>3. All establishments:</b>		
Total cost of fuel .....	..	9,285,808
Total cost of electricity purchased .....	..	1,044,109
Total cost of fuel and electricity purchased .....	...	10,329,917

<sup>1</sup> Data on the quantity and value of the different kinds of fuel and on the quantity of electricity purchased were generally not collected for establishments reporting value of shipments of less than \$100,000. Only the total cost of fuel and the total cost of electricity were collected for these establishments.

TABLE 20. Total Horsepower Rating of Power Equipment in Use or Available for Use Reported in the Miscellaneous Chemical Products Industry, 1958

Type of equipment	Driving generators	Not driving generators
	horsepower	
<b>Prime movers:</b>		
Steam engines .....	572	25,979
Steam turbines .....	4,501	1,273
Diesel engines .....	1,375	2,660
Gasoline, gas and oil engines, other than diesel engines .....	35	18,743
Hydraulic turbines or water wheels .....	100	—
<b>Total .....</b>	<b>6,583</b>	<b>48,655</b>
Electric motors (one-quarter horsepower and over) .....	—	84,586

## Directory of Firms Included in the Miscellaneous Chemical Products Industry, 1958

Name of firm	Location of plant
<b>Nova Scotia:</b>	
Guildford, D.C., Co. Ltd. ....	619 Barrington, Halifax
Marden-Wild of Canada Ltd. ....	Halifax
Nu-Day Cleaning Products .....	480 Kempt Rd., Halifax
Nu-Mac Manufacturing Company Limited.....	44 Jubilee Rd., Bridgewater
<b>Quebec:</b>	
Abbey Chemical Co. ....	St. Antoine des Laurentides
Actoi Chemical Ltd. ....	Delson
Adams Chemical Company Limited .....	4905 Dagenais St., Montreal
Advance Laboratoires .....	256 Laurier Ave. W., Montreal
A.J.P. Chemical Co. Reg'd. ....	303 Ste. Madeleine, Cap de la Madeleine
Allaire, A.E., Reg'd. ....	2071 Florian, Montreal
Aluminum Company of Canada Limited .....	Arvida
Anachemia Chemicals Ltd. ....	500-2nd Ave., Ville St. Pierre
Anti-Hydro of Canada Ltd. ....	2070 Fauard St., Montreal
Barschel & Co. ....	955-14th Ave., Lachine
Bean, D.D., & Sons (Canada) Ltd. ....	St. Césaire
Betz Laboratories Ltd. ....	384 St. Paul St. W., Montreal
Blanchford, H. L., Limited .....	977 Aqueduct St., Montreal
British Chrome & Chemicals (Canada) Ltd. ....	8024 Dante, Ville St. Michel
Cadillac Agencies Reg'd. ....	901-21ème rue, Québec
Canadian Arsenals Limited .....	Palace Hill, Quebec
Canadian Arsenals Limited .....	St. Paul L'Ermite
Canadian Arsenals Limited .....	Valleyfield
Canadian Industries Limited .....	Brownsburg
Canadian Industries Limited .....	McMasterville
Canadian International Paper Co. ....	La Tuque
Canadian Safety Fuse Company Limited .....	Brownsburg
Carron, Joseph .....	La Macaza
Carter White Lead Co. of Canada Limited, The.....	1295 Delorimier Ave., Montreal
Cartier Chemical Co. Ltd. ....	445-21st Ave., Lachine
Chipman Chemicals Limited .....	Buckingham
Chemical & Technical Services Inc. ....	9120 St. Laurent, Montreal
Clough Chemical Company Limited .....	St. Johns
Colloids of Canada Ltd. ....	180 St. Hubert St., Granby
Combustion Chemicals Co. Reg'd. ....	1434 Ste. Catherine W., Montreal
Combustion Utilities Corp. ....	7220 Alexandra Ave., Montreal
Consumers Can Co. ....	632 Notre Dame W., Montreal
Dansereau, Alex., & Cie, Ltée.....	R.R. No. 3, St. Boniface
Davison Chemical Co. Ltd. ....	Valleyfield
Dewey & Alma Div. of W.R. Grace & Co. of Canada Ltd. ....	255 La Fleur Ave., La Salle
Dufresne & Paquet & Cie, Ltée .....	St. Raymond
Durable Products Reg'd. ....	4219 Hogan, Montreal
Dust-Less Sweeping Powder Enrg. ....	1280 St Elizabeth, Montreal
Dust-No-Dirt Mfg. Co. ....	6572 Châteaubriand, Montreal
Eddy Match Company Limited.....	10 Cousineau, Hull
Froz-Ex Products Co. Ltd. ....	St. Vincent de Paul
Gallowhur Chemicals Canada Ltd. ....	Lachine
Gusto Limited .....	Fort Chambly
Handy Chemicals Limited .....	225 St. Denis St., Lambert
Hydra-Clene Corp. of Canada, Ltd. ....	5135 De Gaspé, Montreal
Imperial Paper & Color Corp. (Canada) Ltd. ....	31 St. Charles, St. Johns
Inter-City Petroleum Co. ....	3745 Gouin Blvd. East, Montreal
Kennedy, W. Alan, Limited .....	112 McGill St., Montreal
Kleen Flo Corp. ....	7220 Alexandra, Montreal
Labarre, Isidore .....	Ste. Françoise
Laboratories Choisy Ltée .....	98 Boulevard Est, Louisville
La Compagnie Unica .....	6715 De Châteaubriand, Montreal
Les Produits Chimiques Empire Enrg. ....	720 St. Vallier, Québec
Les Produits Marquette Limitée.....	25, rue Courcellette, Québec
Lignosol Chemicals Ltd. ....	P.O. Box 2025, Quebec
Madelon Degel Enrg. ....	6296 St. Andre, Montreal
McArthur, Irwin (1957) Limited.....	7-35 Bates Rd., Outremont
Montreal Fireworks Display Mfg. Co. Ltd. ....	50 St. Patrick, Ville La Salle
Moran Chemical Co. Ltd. ....	2051 Goulet Ave., Montreal
Morvan Limited .....	531 St. Louis, Lachine
National Chemical Exterminating Co. Ltd. ....	1430 Clark, Montreal
Osmose Wood Preserving Co. of Canada Ltd. ....	1080 Pratt Ave., Montreal
Pachemco Corp. Ltd. ....	Shawinigan South
Para Products Corp. Ltd. ....	3811 Ruskin, Ville St. Michel

## Directory of Firms Included in the Miscellaneous Chemical Products Industry, 1958 - Continued

Name of firm	Location of plant
<b>Quebec - Concluded:</b>	
Pope, Allen Products Reg'd. ....	385 Concord, Montreal
Prescott Robins Sales Company Limited .....	50 Maple Blvd., Lachine
Record Chemical Co. Inc. ....	410 St. Eloi, Montreal
Releasall Company, The .....	685 Birch, Montreal
Robert Chemical Co. Ltd. ....	550 Sebastopol, Montreal
Sanitary Supplies & Equipment Ltd. ....	4275 Iberville St., Montreal
Sherwin-Williams Co. of Canada Ltd., (2 Divisions) .....	1957 Hunter St., Montreal
Specialités Economique Ltée. ....	500-17 rue, Québec
Star A Products .....	717 Notre Dame St. W., Montreal
Techam Associates .....	782 Lafontaine, Drummondville
Texall Products Company Limited .....	5092 Notre Dame St. West, Montreal
Texavon Chemical Company Limited .....	85A Vitre St. West, Montreal
Tinto Products .....	6504 Cartier St., Montreal
Turgeon Chemicals Limited .....	340-360 Dubé St., Montreal East
Union Products Inc. ....	1150 Conway St., Montreal
Utility Products Co. ....	911 Ontario St. E., Montreal
Vac Inc. ....	7995-14th Ave., Ville St. Michel
Wallerstein Company (Canada) Ltd. ....	2030 Crescent St., Montreal
West Disinfecting Company Limited .....	5621 Casgrain St., Montreal
Wonder-Sweep Mfg. Reg'd. ....	St. Andrews East
<b>Ontario:</b>	
Aerocide Dispensers Limited .....	13 Bethridge Rd., Toronto
Aerosol D.D.T. Bug-Blitzer Co. ....	10 Dell Park Ave., Toronto
Alchem Limited .....	Burlington
Allied Specialty Mfg. Co. Ltd. ....	11 Carson St., Toronto
Anchem Products Inc. ....	2224 Walker Rd., Windsor
Anti-Borax Compound Co., Limited .....	1244 McDougall St., Windsor
Archer-Daniels-Midland Company (Canada) Ltd. ....	200 Fairbanks Ave., Toronto
Associated Chemical Company of Canada Limited .....	Bartor & Clayson, Toronto
Atlas Powder Co. of Canada Ltd. ....	P.O. Box 159, Brantford
Ault Wiborg Co. of Canada Ltd., The .....	1450 Dupont St., Toronto
Bartlett, N.M., Mfg. Co. Ltd. ....	Beamsville
Beacon Chemicals of Canada Limited .....	P.O. Box 265, Milton
Bell Chemicals Ltd. ....	83 Mead Ave., Hamilton
Bellak Brothers Limited .....	1 Craft St., Toronto
Berlou Company (Canada) Limited, The .....	2 Langarth West, London
Bikoe Manufacturing Co. Ltd. ....	434 Queen St. E., Toronto
Bird-Archer Co. Limited, The .....	Second Street, Cobourg
Blanchford, H.L. Limited .....	40 Titan Rd., Etobicoke
Blue Bird Dust Absorber .....	452 McArthur Rd., Ottawa
Book Match Ltd. ....	1244 Dufferin At., Toronto
Boyle Chemicals Limited .....	11 Evergreen Ave., Long Branch
Bubble Bath Laboratories Ltd. ....	Dunnville
Budget Products Limited .....	West Lorne
Canada Rex Spray Company Limited .....	Brighton
Canadian Aniline & Extract Co. Limited .....	162 Ward Ave., Hamilton
Canadian Charcoal Corporation Ltd. ....	112 Bond St., Toronto
Canadian Germicide Company Limited .....	591 The Queensway, Toronto
Canadian Industries Limited .....	Nobel
Canadian Pep Manufacturing Company Limited .....	Orangeville
Canadian Shaler Products Company Limited .....	29 Dartnell Ave., Toronto
Canadye Corporation, The .....	129 Rebecca St., Hamilton
Cert Seal Mfg. Co. ....	417 Marf Ave., Lakeview
Champion Co. of Canada Limited, The .....	856 Millwood Rd., Leaside
Charcoal Supply & Sales of Ontario Ltd. ....	South River
Chipman Chemicals Ltd. ....	Burlington St. E., Hamilton
Christopher Bros. ....	6285 Yonge St. Willowdale
Compagnie Parento Limited .....	73 Adelaide St. West, Toronto
Connecticut Chemical (Canada) Ltd. ....	Curity & Hollinger Rds., Toronto
Cop-R Clean Co. ....	29 Bermonosey Rd., Toronto
Copeland Products .....	383 Sutherland Drive, Leaside
Cromac Chemical Co. Limited .....	174 Bridgeland, Toronto
Dalic Metachemical Ltd. ....	121 Judge Rd., Toronto
Dearborn Chemical Company Limited .....	2454 Dundas St. West, Toronto
Deodor-x Company of Canada Limited .....	9 Phoebe, Toronto
Dobbie, D.M., & Co. ....	Lakeview
Dodge Chemical Company (Canada) Limited, The .....	26 Cumberland St., Toronto
Dominion Colour Corporation Limited .....	199 New Toronto St., New Toronto
Draw, E.F., & Co. Ltd. ....	Ajax

## Directory of Firms Included in the Miscellaneous Chemical Products Industry, 1958 - Continued

Name of firm	Location of plant
<b>Ontario - Continued:</b>	
Dupont Co. of Canada Ltd.	Nipissing
Dussek Bros. (Canada) Ltd.	Belleville
Dustbane Mfg. Co. Ltd.	88 Metcalfe St., Ottawa
Dye & Chemical Co. of Canada Ltd.	River & Orchard Sts., Kingston
Eaton Chemical & Dyestuff Company	162 Queens Quay, East, Toronto
Eddy Match Company Limited	Water Street, Pembroke
Embalmers Supply Co. of Canada Ltd., The	42 Haas Rd., Rexdale
Ensign Industrials Limited	33 Carleton St., St. Catharines
Fairview Chemical Company	56 Newcastle St., Toronto
Fomorg Products	158 Portland, Toronto
General Sawdust Supply	15A Lennox St., Toronto
Hand, T.W., Fireworks Co. Ltd.	Cooksville
Handee Products	Langstaff
Hart Products Company of Canada, Limited	Victoria Road, Guelph
Heather Chemical Products Ltd.	38 Advance Rd., Toronto
Hercules Powder Company (Canada) Ltd.	Burlington
Hollingshead, R.M., Co. of Canada Limited, The	Bowmanville
Houghton, E.F., & Co. of Canada Limited	100 Symes Rd., Toronto
Howard, A.H., Chemical Co. Ltd.	3 McCarthy St., Orangeville
Hunnisett, H.S., Limited	200 Wicksteed, Toronto
Industrial Waxes Limited	48 Paddington Ave., London
International Waxes Limited	Agincourt
Kert Mfg. Co. Ltd.	135 Logan Ave., Toronto
King Calcium Products Co. Limited	Campbellville
Latimer Limited	90 Niagara St., Toronto
Lea Mfg. Co. of Canada Ltd.	1236 Birchmount, Scarborough
Lecithin Products (Canada) Limited	48 Dundas St. West, Belleville
Lloyds Laboratories Limited	Rouge Hills
London Laboratories Ltd.	48 Paddington, London
Lubrizol of Canada Ltd.	P.O. Box 26, Niagara Falls
MacCallum Mfg. Co. Ltd.	2 Primrose Ave., Toronto
Maitland Development Co. Ltd.	Maitland
Mandaree Limited	114 Manville Rd., Toronto
Master Builders Co. Limited, The	Ingram Drive & Kincourt St., North York
Masticote Co. Ltd.	3700 Bathhurst, Toronto
Mercury Chemical Co. Ltd.	Riverside Dr. E., Windsor
Metal & Thermit-United Chromium of Canada Ltd.	172 Belfield Rd., Rexdale
National Specialty Compounds Limited	524 Front St. West, Toronto
Neilson Chemical Company of Canada	2682 Tecumseh Rd. East, Windsor
Niagara Brand Chemicals Div. of F.M.C. Machinery & Chemicals Ltd.	Burlington
Nopco Chemical Canada (1955) Ltd.	123 St. George, London
North American Dye Corporation Limited, The	Coboconk
Northern Industrial Products Ltd.	41 Crockford Blvd., Toronto
Northern Pigment Co. Ltd.	Towns Rd., Etobicoke
Novadel-Agene Limited	Garrison Rd., Fort Erie
Ontario Fire Prevention & Service	645 Queen St. E., Toronto
Ontario Paper Co. Ltd.	Thorold
Parker Rust Proof Company of Canada Ltd.	15 Rexdale Blvd., Rexdale
Pennsalt Chemicals of Canada Ltd.	Oakville
Peterman Products Company	1 Bathurst St., London
Plunkett Chemical Co. (Canada) Ltd.	302 Cumberland Ave., Hamilton
Polymer Corporation Limited	Sarnia
Quaker City Chemical Co. of Canada Limited	16 Birmingham St. Hamilton
Radiator Specialty Company of Canada Limited	340 Gerrard E., Toronto
Red Line Chemicals of Canada Limited	Portland & Audley Sts., Mimico
Reliable Chemical Products Co.	85 Cannon St. W., Hamilton
Ross, Frank T. & Sons Ltd.	18 Civic Rd., Scarboro
S.A.C. of Canada Ltd.	75 Densley Ave., Scarborough
Scholler Brothers Limited	Welland & Vine Sts., St. Catharines
Shell Oil Company of Canada Limited	Carlaw & Commissioner St., Toronto
Sitko Products Co.	360 Antwerp, Sudbury
Smith, Howard, Paper Mills Limited	1 Hazel St., Cornwall
Snowdon, C.C., Eastern Ltd.	1364 Bloor St. W., Toronto
Spence, W.R., Industries Ltd.	31 Laburnham Ave., Toronto
Standard Ultramarine & Colour Co. Ltd., The	56-60 St. Helen's Ave., Toronto
Strike Rite Matches Limited	424 Ridout St., London
Sunbeam Anti Corrosives (Canada) Ltd.	407 Comstock Rd., Scarborough
Superior Biochemicals of Canada Ltd.	50 Raleigh, Toronto
Taylor & McKibbin Ltd.	127 Raleigh Ave., Toronto
Temuss Products Canada Ltd.	Ajax
Tennier Chemical & Sales Co.	124½ Jackson St. East, Hamilton
Thompson, G.F. Company Ltd.	108 Manville Rd., Scarborough
Tumbler, J.A., Laboratories Ltd., The	2135 Lawrence Ave., E., Scarborough
Uniform Company Ltd.	110 Manville Rd., Scarborough

## Directory of Firms Included in the Miscellaneous Chemical Products Industry, 1958 - Concluded

Name of firm	Location of plant
<b>Ontario - Concluded:</b>	
Van Camp Products & Sales Co. ....	177 Parliament St., Toronto
Vigneaux & Co. ....	955 Roselawn, Toronto
Wagner Brake Company Limited .....	100 Clayson Rd., Weston
Webb Products (Canada) Ltd. ....	139 Stephenson, Toronto
Wilson, G., & Company .....	229 Erie Ave., Brantford
Wilson Laboratories Limited .....	Brock & Hatt Sts., Dundas
<b>Manitoba:</b>	
Artic Sur-Flow Co. ....	614 Des Meurons, St. Boniface
Canadian Industries Limited .....	Brainered
Chipman Chemicals Limited .....	1040 Lynn Ave., Winnipeg
City Chemical & Products Company Limited .....	233 Fort St., Winnipeg
Dustbane Western Ltd. ....	349 Elgin Ave., Winnipeg
Interprovincial Co-Operatives .....	Marion & Dawson Rd., St. Boniface
Reliance Ink Co. Ltd. ....	520 McGee, Winnipeg
Robinson & Webber Limited .....	104 Princess St., Winnipeg
<b>Saskatchewan:</b>	
Chipman Chemicals Limited .....	Moose Jaw
Fairview Chemical Co. Ltd. ....	1355 St. John St., Regina
Hub City Mfg. Company .....	468 - 1st Ave. N., Saskatoon
Niagara Brand Spray Co. Ltd. ....	1326 Atkinson, Regina
Vimridge Chemical Co. Ltd. ....	1322 Lorne, Regina
<b>Alberta:</b>	
Allied Chemical Services, Ltd. ....	5507 - 1st St. S.E., Calgary
Calfair Ltd. ....	3627 - 15 A. St. S.E., Calgary
Canada West Products Co. ....	718 Second Ave. West, Calgary
Canadian Industries Limited .....	Ogden
Chipman Chemicals Limited .....	12th Ave. & 6th St. East, Calgary
Dustbane (Alberta) Ltd. ....	623 - 6th Ave. E., Calgary
Helmer Chemical Co. Ltd. ....	222 - 35th Ave. N.E., Calgary
Interprovincial Chemicals Ltd. ....	Clover Bar
Kenro Asphalt Limited .....	222 Tegler Bldg., Edmonton
Kleen Limited .....	1822 - 10th Ave. W., Calgary
Snowdon, C.C., Estate .....	1810 - 11th St. E., Calgary
<b>British Columbia:</b>	
Ansell Chemical Co. Limited .....	Vernon
Bardahl Lubricants (Western) Ltd. ....	5405 West Blvd., Vancouver
British American Chemicals Co. Ltd. ....	1001 East Pender St., Vancouver
Canadian Construction Products Ltd. ....	1025 West 77th Ave., Vancouver
Canadian Industries Limited .....	James Island
Chipman Chemicals Limited .....	580 Greendall Ave., South Burnaby
Dustbane Co. of B.C. Limited .....	1000 Parker St., Vancouver
East West Chemicals Ltd. ....	2005 Quebec, Vancouver
Eddy Match Co. Ltd. ....	Mission City
Field, A.H.T., & Co. Ltd. ....	1269 E. Broadway, Vancouver
Goddard & Co. ....	2095 Beaufort, Sidney
Indag Chemicals Ltd. ....	1261 Cotton Drive, North Vancouver
Isles Products Ltd. ....	6625 Fraser, Vancouver
Later Chemicals Ltd. ....	316 Lancaster, Richmond
Never-Seez Compound Ltd. ....	1169 Parker St., Vancouver
Noxall Products Ltd. ....	1820 W. 3rd Ave., Vancouver
Nu-Charge Chemical Co. Ltd. ....	520 Mountain Hwy., North Vancouver
Oliver Chemical, Co. Ltd., The .....	645 Wade Ave. W., Penticton
Ortho Agricultural Chemicals Ltd. ....	Foot of 16th St., New Westminster
Pied Piper Products Ltd. ....	3126 Kingsway, Vancouver
Sawyer's Sweeping Supplies .....	Langley Prairie
Simpson, A., Co. ....	1121 S.W. Marine Drive, Vancouver
Smith-Barregar Ltd. ....	115 West 3rd Ave., Vancouver
Tinit (Canada) .....	215 Belleville, Victoria
Van Waters & Rogers of Canada Ltd. ....	Ft. Carrall St., Vancouver
Xzit Chemicals Ltd. ....	1685 Franklin, Vancouver

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