



OTHER CHEMICAL INDUSTRIES

1961

The list of firms normally included in this report has been omitted from this issue, along with certain tables. See introductory text for details.

ANNUAL CENSUS OF MANUFACTURES

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EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1961 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. Implementation of the new definition of the establishment in the 1961 Census has resulted in certain changes and necessitated some adjustments to the statistics for previous years in order to maintain comparability of the data. (See following note on "Establishment".)

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 1961, 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

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

Many firms have more than one manufacturing establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements described earlier.

Prior to 1961, the main emphasis in the Census of Manufactures was on manufacturing activity whereas, beginning with 1961, each establishment reports on the total operations carried out within its accounting boundaries (except income from investments such as rent, interest and dividends). However, data on different activities (manufacturing, selling, construction by own labour force etc.) are requested separately. The 1961 statistics in this report are confined to manufacturing activity in order to maintain comparability with previous years. In the 1962 reports it is planned to show both 1961 and 1962 data on the "total activity" basis in addition to the data on manufacturing operations.

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 but will be shown separately in subsequent years.

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, handling, warehousing and delivery staff. 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 the calendar year 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 with salaries, but will be shown separately in subsequent years. 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 establishment including freight, duty, etc.

Materials and Supplies Used

Figures represent quantities and laid-down cost values, at the establishment, of materials, supplies and components 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 or 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 generally refer to shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishment 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 which are treated as separate establishments are included. Goods bought or received as transfers and resold without further processing are not included. Values are requested

on f.o.b. establishment 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 value of manufacturing inventory. Figures consist of inventory at the plant and at warehouses or selling outlets which are treated as extensions of the plants for the purpose of reporting shipments.

Value added by Manufacturing

Value added is compiled by deducting the cost of materials, fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process). Value added is sometimes referred to as net production.¹

Standard Industrial Classification

The revised Standard Industrial Classification which was introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics. Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

Establishments engaged solely in repair work are not included in manufacturing industries (except in the case of furniture, shipbuilding, boat building, aircraft and railroad rolling stock industries) but establishments principally engaged in assembling parts into complete units are included.

¹ To arrive at the National Accounts concept of "gross domestic product at factor cost", it would be necessary to subtract also the cost of advertising, insurance and other business costs which are not collected in the annual Census of Manufactures. Value added figures for the primary industries, manufacturing and construction are published in D.B.S. publication 61-202, Survey of Production.

Short Forms

Since 1949, in order to ease the reporting burden for smaller firms, a one-page short form has been used asking only for certain principal items of shipments. For purposes of publication, missing data were estimated on the basis of appropriate ratios. For the 1959 and 1960 censuses the general limit for short forms was raised from \$50,000 to \$100,000 value of shipments and a new intermediate form was used. This form is a shortened version of the long form in that some 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 inter-

mediate forms there are lower cut-offs for a number of industries in which the smaller firms account for a larger share of total shipments.

In the 1961 Census, in addition to the question on shipments of goods of own manufacture, questions on employment and payroll and on total revenue were added on all short forms. The other elements of principal statistics, viz. value of materials, fuel and electricity, and inventories, are generally estimated by using ratios based on the change in the value of shipments from year to year. This is to permit the complete compilation of basic industry statistics by industry and by geographic location. The proportion of the estimated data is generally less than 5 per cent of the total in each category of principal statistics.

OTHER CHEMICAL INDUSTRIES

1961

Data presented in this report under the heading of Other Chemical Industries reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the new Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of 1961 industry statistics—see items "Standard Industrial Classification" and "Establishment" in the Explanatory Notes section of this report. For statistical purposes the industry titled Other Chemical Industries in the revised Standard Industrial Classification covers establishments primarily engaged in manufacturing chemical products not elsewhere classified, such as insecticides, germicides, inks, matches, adhesives, polishes and dressings. This industry includes establishments primarily engaged in coal tar distillation or wood distillation. Included also are establishments primarily engaged in manufacturing deodorants and disinfectants for household, institutional or industrial use; sweeping compounds and dry-cleaning preparations. It might be noted that for purposes of preparation of statistics in this report recognition is being given to Manufacturers of Printing Inks as a sub-classification within this industry group.

In many instances, adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. One of the significant elements in the shift in the case of the industry reviewed in this report was the transfer to the Manufacturers of Industrial Chemicals Industry of establishments producing synthetic rubber, and the transfer of establishments producing explosives, ammunition, fireworks and related products to a new and separate industry report titled Explosives and Ammunition Manufacturers. Another significant element was the grouping in this report of statistics which were previously published in separate reports under the following headings: The Adhesives Industry, The Coal Tar Distillation Industry, The Inks Industry and The Polishes and Dressings Industry.

Implementation of the new Establishment Concept in the 1961 Census of Manufactures also resulted in certain changes and necessitated some adjustments to the statistics. However, in the case of the industry under review such changes were of a minor nature.

As a result of increased work loads and staff shortages it has been necessary to suspend publication of certain tables normally contained in this report. It is planned to resume publication of these tables in the 1962 reports. In general, the tables affected are the following: Directory of Firms—Imports—Exports—Capital and Repair Expenditures.

TABLE 1. Principal Statistics: Other Chemical Industries, by Provinces, 1957-61

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number				dollars		
1957							
Nova Scotia	4	54	179,058	108,815	818,015		1,148,433
New Brunswick	1						
Quebec	100	1,489	5,576,670	584,424	13,427,259		27,421,546
Ontario	173	4,103	16,085,475	1,540,849	46,081,347		93,211,080
Manitoba	9	70	192,769	14,533	1,108,146		2,010,900
Saskatchewan	4	30	89,932	2,596	557,013	1	719,715
Alberta	7	41	86,463	6,754	493,972		708,481
British Columbia	35	206	630,527	49,053	1,268,942		2,463,563
Canada	333	5,993	22,840,894	2,307,024	63,754,694		127,683,718
1958							
Nova Scotia	4	52	185,014	79,345	948,366	246,772	1,334,701
Quebec	101	1,567	6,411,223	790,412	14,487,176	17,331,816	32,743,049
Ontario	172	4,341	17,453,359	1,594,938	49,113,549	46,016,975	96,273,546
Manitoba	9	82	274,882	26,653	1,408,147	1,260,896	2,618,997
Saskatchewan	5	30	102,204	4,106	531,775	231,755	706,567
Alberta	8	42	139,009	7,415	755,780	167,817	947,317
British Columbia	36	213	673,918	37,637	1,462,631	1,786,859	3,309,305
Canada	335	6,327	25,239,609	2,540,506	68,707,424	67,042,890	137,933,482
1959							
Nova Scotia	5	57	207,828	86,431	1,060,808	603,079	1,821,952
New Brunswick	1						
Quebec	101	1,620	6,804,622	739,189	15,451,345	17,838,103	33,790,054
Ontario	171	4,388	18,566,100	1,608,697	54,892,055	53,684,469	108,968,157
Manitoba	9	72	259,149	23,146	1,572,548	1,107,172	2,722,975
Saskatchewan	5	31	108,288	6,859	420,280	382,888	891,996
Alberta	9	52	171,390	8,127	709,452	430,934	1,158,346
British Columbia	38	273	920,535	94,949	1,664,108	2,310,101	4,019,422
Canada	339	6,493	27,037,912	2,567,398	75,770,596	76,356,746	153,372,902
1960							
Nova Scotia	4	51	199,683	78,691	909,725	706,604	1,733,243
New Brunswick	1						
Quebec	101	1,650	6,430,105	722,058	15,904,319	21,000,071	37,162,834
Ontario	175	4,441	19,589,321	1,555,154	55,080,598	55,438,632	111,419,449
Manitoba	10	75	279,753	26,856	2,036,809	1,402,011	3,322,773
Saskatchewan	5	33	113,667	6,911	609,502	794,127	1,379,828
Alberta	10	46	173,999	10,886	721,643	418,061	1,135,536
British Columbia	39	252	957,784	110,912	1,694,261	2,703,536	4,592,533
Canada	345	6,548	27,744,312	2,511,468	76,956,857	82,463,042	160,746,196
1961							
Nova Scotia	5	46	173,641	53,836	550,770	742,675	1,197,801
Quebec	101	1,628	6,687,699	723,116	17,187,603	21,832,451	39,936,524
Ontario	175	4,349	19,847,662	1,640,710	61,013,928	55,962,526	116,916,874
Manitoba	11	99	352,183	28,840	3,123,956	1,768,743	4,718,815
Saskatchewan	5	29	107,679	4,279	831,365	253,544	1,101,498
Alberta	11	39	140,505	12,220	942,171	493,397	1,403,347
British Columbia	38	223	863,084	99,618	2,076,516	2,443,912	4,518,236
Canada	346	6,418	28,172,453	2,562,619	85,726,309	83,497,248	169,793,095

¹ Because of lack of inventory data "Value added" is not available for 1957.

TABLE 2. Principal Statistics: Other Chemical Industries, by Sub-groups, 1959 - 61

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number		dollars				
1959							
Manufacturers of printing inks	31	908	3,918,133	158,963	7,709,955	9,816,585	17,675,697
Other chemical industries, n.e.s.	308	5,585	23,119,779	2,408,435	68,060,641	66,540,161	135,697,205
Totals	339	6,493	27,037,912	2,567,398	75,770,596	76,356,746	153,372,902
1960							
Manufacturers of printing inks	31	933	4,207,161	172,138	7,607,907	10,037,035	17,671,055
Other chemical industries, n.e.s.	314	5,615	23,537,151	2,339,330	69,348,950	72,426,007	143,075,141
Totals	345	6,548	27,744,312	2,511,468	76,956,857	82,463,042	160,746,196
1961							
Manufacturers of printing inks	32	971	4,622,088	192,853	8,362,203	10,607,225	19,074,459
Other chemical industries, n.e.s.	314	5,447	23,550,365	2,369,766	77,364,106	72,890,023	150,718,636
Totals	346	6,418	28,172,453	2,562,619	85,726,309	83,497,248	169,793,095

TABLE 3. Inventories: Other Chemical Industries,¹ 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
(a) By provinces				
Opening:				
Nova Scotia	193,564	2,714	112,457	308,735
Quebec	2,837,483	127,415	2,200,480	5,165,378
Ontario	8,683,392	688,598	8,556,148	17,928,138
Manitoba	269,976	17,605	251,519	539,100
Saskatchewan	81,506	—	136,496	218,002
Alberta	103,108	4,461	79,582	187,151
British Columbia	443,340	19,727	285,767	748,834
Canada	12,612,369	860,520	11,622,449	25,095,338
Closing:				
Nova Scotia	57,127	988	263,663	321,778
Quebec	2,969,132	164,164	1,970,377	5,103,673
Ontario	9,487,377	820,105	10,124,931	20,432,413
Manitoba	576,473	13,262	458,586	1,048,321
Saskatchewan	174,670	—	124,186	298,856
Alberta	121,517	9,021	119,463	250,001
British Columbia	380,755	30,040	377,264	788,059
Canada	13,767,051	1,037,580	13,438,470	28,243,101
(b) By sub-groups				
Opening:				
Manufacturers of Printing inks	1,558,784	209,440	908,004	2,676,228
Other chemical industries n.e.s.	11,053,585	651,080	10,714,445	22,419,110
Canada	12,612,369	860,520	11,622,449	25,095,338
Closing:				
Manufacturers of printing inks	1,565,880	289,793	915,473	2,771,146
Other chemical industries n.e.s.	12,201,171	747,787	12,522,997	25,471,955
Canada	13,767,051	1,037,580	13,438,470	28,243,101

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

(b) The opening inventory for 1961 differs from the closing inventory for 1960 because of the receipt of revised data, the inclusion of new establishments, the removal of figures for establishments which did not operate during 1961, changes in classification, and the implementation of the New Establishment Concept.

TABLE 4. Factory Shipments: Other Chemical Industries, 1960 and 1961

Product	1960		1961	
	Quantity	Selling value of factory shipments	Quantity	Selling value of factory shipments
		\$		\$
(a) Manufacturers of printing inks				
Printers' inks:				
Newspaper	lb. 16,491,160	2,204,198	17,495,200	2,397,155
Letterpress	" 6,854,415	6,415,199	6,879,234	6,717,555
Lithographing	" 3,597,951	4,642,032	3,604,399	5,205,678
Other	" 6,248,925	2,951,187	7,253,550	3,261,478
Printers' rollers (see also section (b)) .....	..	293,813	..	297,188
All other products .....	..	894,445	..	1,195,405
Totals .....	...	17,400,874	...	19,074,459
(b) Other chemical industries, n.e.s.				
Adhesives:				
Cement - Linoleum	lb. 5,374,100	388,321	8,002,507	476,686
Rubber	gal. 197,920	751,988	267,731	1,049,059
Glue - Bone and hide	lb. 6,329,700	1,546,544	6,619,499	1,533,991
Casein	" 713,263	242,232	840,459	184,178
Fish	" 471,852	203,689	443,809	196,342
Flexible	" 2,556,603	648,969	2,445,784	618,832
Synthetic resin - Polyvinyl (acetate and/or alcohol)	" 9,391,926	3,195,154	14,061,218	4,072,373
Others synthetic resin glues	" 1,690,334	653,154	4,119,625	832,705
Vegetable - Dry	" 3,996,847	581,544	3,905,319	619,841
Liquid	" 16,334,228	1,874,175	17,969,459	1,982,075
Latex adhesives	" 1,496,952	523,198	1,845,733	598,125
Mucilage and paste .....	..	1,179,212	..	1,335,116
Adhesives, other .....	..	1,151,132	..	1,665,984
Automobile chemicals:				
Antifreeze preparations	gal. 973,833	1,986,917	1,201,227	2,280,937
Brake fluids	" 286,361	865,003	197,747	745,578
Radiator compounds .....	..	196,904	..	225,455
Other .....	..	2,106,759	..	2,248,846
Boiler chemicals - For use by railroads .....	..	189,376	..	189,848
For marine use .....	..	158,083	..	189,236
For industrial use .....	..	3,973,974	..	3,958,791
Caulking compounds	lb. 1,550,333	380,110	1,378,966	263,294
Charcoal	ton 17,316	1,080,437	13,398	983,123
Cleaning preparations and washing compounds:				
Drain pipe cleaner	lb. 30,622	10,458	30,609	9,540
Floor cleaners .....	..	439,743	..	500,182
Hand cleaner	lb. 672,307	134,706	1,142,509	190,204
Scouring pastes and powders	" 227,226	43,308	182,099	42,509
Toilet bowl cleaner	" 2,738,754	474,803	3,673,621	550,696
Other cleaning preparations and washing compounds .....	..	3,236,630	..	3,627,425
Coke, pitch	ton 1,918	55,248	4,466	134,791
Concrete admixtures (hardeners and proofers) .....	..	3,257,412	..	3,241,227
Creosote oil	gal. 13,744,228	3,198,275	8,966,115	2,016,694
Deodorants (except personal) .....	..	1,415,260	..	1,317,941
Detergents (synthetic organic)	lb. 4,995,709	1,251,198	8,075,388	1,726,756
Dextrines	" 4,780,840	394,030	5,142,770	418,415
Disinfectants .....	..	765,582	..	561,361

TABLE 4. Factory Shipments: Other Chemical Industries, 1960 and 1961 - Concluded

Product	1960		1961	
	Quantity	Selling value of factory shipments	Quantity	Selling value of factory shipments
		\$		\$
(b) Other chemical industries, n.e.s. - Concluded				
Embalming fluid .....	..	313,923	..	314,446
Fuel oil additives .....	..	746,098	..	1,631,837
Ink, writing .....	..	287,636	..	96,651
Lacquers	gal. 110,670	298,292	138,444	409,648
Leather dressings and finishes (except polish) .....	..	1,446,445	..	1,764,205
Lighter fluid .....	..	270,843	..	365,762
Matches, in books	No. 727,603,930	3,025,486	747,034,493	3,023,421
Oils sulphonated:				
Castor	lb. 290,229	70,530	473,714	107,580
Cocoonut	" 88,694	15,275	127,132	20,353
Neat's foot	" 113,014	25,956	183,086	41,703
Other, including special blends	" 1,719,074	196,321	2,131,710	254,190
Oils except sulphonated .....	..	1,604,273	..	1,619,051
Paints, ready mixed (interior and exterior types)	gal. 125,769	574,818	199,157	513,362
Pest control products:				
Agricultural dusts and sprays (arsenicals, synthetic organics, copper compounds and seed treatments) ..	..	2,453,922	..	3,678,946
Herbicides (chlorates, borates, 2, 4-D, 2, 4, 5-T, etc.) ..	..	3,545,223	..	4,168,398
Other agricultural dusts and sprays .....	..	1,490,648	..	1,968,627
Household and industrial insecticides (fumigants, powders, dusts, sprays and repellants) ..	..	1,973,526	..	2,961,359
Rodenticides (mouse and rat poisons, gopher poisons, etc.) ..	..	82,907	..	88,114
Other pest control products .....	..	3,825,848	..	4,382,551
Pitch	ton 119,779	5,174,324	74,968	3,316,446
Polishes:				
Automobile .....	..	1,179,185	..	1,075,725
Brass .....	..	80,739	..	37,265
Floor wax - Paste	lb. 9,027,394	3,979,718	7,975,976	3,203,964
Liquid (including self-polishing)	gal. 4,827,990	13,286,047	4,352,739	12,436,438
Furniture - Cream .....	..	47,285	..	386,777
Oil .....	..	439,248	..	351,036
Silver - Paste, liquid or cream .....	..	196,186	..	68,698
Shoe - Paste .....	..	642,557	..	801,793
Liquid or cream .....	..	449,528	..	863,594
Stove .....	..	20,831	..	17,785
Other polishes .....	..	246,775	..	144,040
Printers' rollers (see also section (a)) .....	..	794,943	..	768,063
Rust preventatives .....	..	595,987	..	590,796
Soaps - Liquid	lb. 7,375,215	1,595,297	10,897,045	1,518,331
Soft	" 111,606	18,941	52,895	8,857
Textile	" 269,399	46,097	214,546	40,450
Other	" 2,524,226	507,277	1,391,745	345,191
Sweeping powders .....	..	1,311,339	..	1,083,513
Tar, refined	gal. 2,453,148	522,290	1,200,849	267,418
Textile and leather specialties .....	..	4,188,362	..	4,956,683
Wood preservative .....	..	680,330	..	758,912
All other products .....	..	48,785,176	..	50,883,365
Totals .....	...	145,589,996	...	151,923,550
Less adjustment for value of sale taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above .....	...	...	...	1,204,914
Totals .....	...	145,589,996	...	150,718,636
Grand totals .....	...	162,990,870	...	169,793,095

Note: 1. Data given in the above table reflect totals by firms classified as "Other chemical industries" - see text for definition. These products may have been made also as minor products of firms classified to other industries, so the figures in this table do not necessarily represent the total Canadian production of the items which are listed. For the total figures of some of the major items, see Tables 6 to 18.

2. Data for 1960 presented in above table are based on the revised 1960 Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures, actual differences are minimal.

TABLE 5. Materials Used: Other Chemical Industries, 1960 and 1961

Material	1960		1961	
	Quantity	Cost at plant \$	Quantity	Cost at plant \$
(a) Manufacturers of printing inks				
Acids:				
Tannic	lb. 4,300	6,087	3,790	5,589
Carbon black	" 1,825,061	228,572	2,126,005	259,741
Dextrine	" 7,785	1,057	7,092	1,284
Driers .....	..	95,398	..	101,051
Dry colours .....	..	2,324,370	..	2,502,893
Dyes .....	..	51,906	..	48,991
Flushed colours .....	..	491,669	..	528,600
Glue	lb. 21,000	8,840	21,000	8,840
Glycerine	" 41,550	14,463	39,759	12,717
Gums and resins:				
Natural	" 465,876	90,076	501,616	98,965
Synthetic	" 3,056,185	773,078	3,182,745	839,074
Oils:				
Castor	gal. 1,116	2,313	1,195	2,539
China-wood (Tung)	lb. 36,539	9,637	42,658	14,709
Linseed	gal. 71,808	124,675	68,110	118,902
Petroleum ink oils	" 1,404,191	360,327	1,510,462	387,657
Other oils	lb. 34,574	9,670	9,821	1,686
Solvents (benzol, naphtha, alcohol, etc.)	gal. 753,767	376,549	853,903	420,787
Starch	lb. 2,579	283	2,426	339
Varnishes	gal. 427,567	1,067,887	415,509	1,041,746
Wax:				
Beeswax	lb. 4,615	2,993	4,693	3,718
Carnauba	" 2,891	2,654	3,322	3,059
Paraffin	" 31,440	6,886	19,275	3,467
Synthetic	" 35,426	12,946	46,816	20,589
Other	" 10,211	4,603	12,313	5,183
All other materials .....	..	1,225,359	..	1,476,929
Containers, packing materials .....	..	318,259	..	453,148
Totals .....	...	7,610,557	...	8,362,203
(b) Other chemical industries, n.e.s.				
Acetone	lb. 257,081	28,980	303,546	33,463
Acid - Acetic	" 96,941	14,601	109,844	16,236
Cresylic (including cresols)	" 215,304	39,878	289,493	41,287
Hydrochloric (muriatic)	" 269,837	12,171	269,247	17,374
Nitric	" 201,298	8,520	203,456	9,662
Oleic	" 569,142	100,918	636,242	110,443
Oxalic	" 235,234	40,000	156,533	30,828
Phosphoric	" 1,304,872	101,256	1,425,376	125,733
Stearic	" 1,024,139	141,573	893,510	118,678
Sulphuric, 100%	" 19,059,497	277,526	22,940,874	338,337
Tannic	" 12	14	16	22
Alcohol - Butyl (including isobutanol)	" 502,864	73,399	284,346	40,354
Ethyl	gal. 106,670	130,443	64,609	75,255
Isopropyl	lb. 1,934,224	147,462	4,695,227	388,216
Methyl	gal. 120,683	98,423	72,518	59,625
Aldrin, technical	lb. 527,658	441,887	703,151	605,813
Aluminum sulphate (alum)	" 120,548	10,108	125,406	9,227
Ammonia, anhydrous	" 1,490,448	73,972	2,297,263	109,380
Arsenic, white (As ₂ O ₃)	" 245,635	12,259	347,242	19,385
Arsenic acid (As ₂ O ₃)	" 461,350	17,531	378,310	17,024
Asphalt	gal. 502,700	97,131	435,419	80,730
Benzol (benzene)	lb. 117,110	6,632	123,007	6,668
Bones	ton 8,210	173,792	8,400	295,562
Borax	lb. 1,124,678	64,673	1,413,819	95,272

TABLE 5. Materials Used: Other Chemical Industries, 1960 and 1961 - Continued

Material		1960		1961	
		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
(b) Other chemical Industries, n.e.s. - Continued					
Butyl "Cellosolve"	lb.	59,835	11,644	77,032	20,367
Calcium arsenate	"	725,416	51,574	3,511	254
Calcium carbonate (whiting and chalk)	"	1,735,595	74,985	2,205,028	85,908
Calcium chloride	"	2,001,850	48,312	1,919,612	50,482
Carbon black	"	307,215	39,017	265,234	35,655
Carbon tetrachloride	"	418,738	57,891	426,715	56,587
Casein	"	2,070,508	289,202	2,359,645	276,584
China clay (kaolin)	"	3,927,391	82,657	3,595,509	74,137
Chlorine	"	152,000	10,563	2,944,271	53,309
Copper sulphate	"	299,821	73,338	269,418	63,557
D.D.T. (dichloro, diphenyl trichlorethane)	"	918,393	188,517	726,164	145,591
Dextrine	"	7,638,256	705,495	7,792,851	735,994
Dinitrophenol	"	11,000	2,840	15,000	3,784
Driers	"	..	10,694	..	7,418
Dry colours	"	..	229,294	..	234,983
Ethanolamines (mono, di, tri,)	lb.	1,550,877	436,680	1,890,685	525,687
Ethylene glycol (see also "glycols, other")	"	11,481,032	1,667,306	12,469,083	1,805,068
Flour - Potato	"	153,082	13,364	137,930	10,998
Tapioca	"	213,355	24,541	300,191	27,237
Wheat	"	3,272,711	166,184	4,554,320	222,877
Other	"	298,759	16,266	265,218	15,555
Formaldehyde, 100% solids basis	"	537,022	63,219	1,957,538	196,879
Glycerine	"	653,811	193,796	664,638	185,080
Glycols, other (see also "ethylene glycol")	"	382,606	78,851	789,456	173,103
Glucose	"	362,671	27,541	368,175	28,938
Glue - Bone and hide	"	1,350,924	384,581	1,245,229	378,720
Fish	"	495,795	93,569	444,231	83,901
Graphite	"	1,350	366	2,725	611
Grease	"	1,074,979	80,305	994,758	80,529
Gums and resins, natural	"	830,031	165,417	705,954	171,065
Hides and hide trimmings	ton	17,219	258,738	18,735	267,454
Iron, scrap	net ton	1,466	42,511	856	21,783
Lignin liquor	gal.	376,937	55,993	444,450	59,336
Lime	ton	3,051	40,426	816	15,672
Lindane, technical	lb.	65,134	76,952	48,765	57,101
Litharge	"	378,831	49,358	326,005	40,525
Lithopone	"	34,649	2,404	45,309	3,423
Malathion, technical	"	133,727	119,812	223,505	199,128
Naphthalene	"	1,817,683	373,769	870,579	137,907
Oils - Castor	"	568,218	105,261	748,666	157,942
China-wood (Tung)	"	258,519	47,095	124,598	31,148
Cocoanut	"	1,259,762	225,062	1,151,053	168,773
Cod	"	741,710	55,030	830,762	57,799
Essential	"	..	118,337	..	137,975
Fish	lb.	1,661,910	146,315	1,390,343	103,737
Lard	"	934,093	126,145	862,107	115,800
Linseed - Raw	gal.	107,456	135,733	110,356	132,241
Boiled or processed	"	9,439	15,881	11,333	18,241
Mineral	"	1,467,995	407,316	1,871,451	336,421
Neat's foot	lb.	215,521	39,537	339,039	60,467
Pine	"	276,648	44,939	638,016	98,442
Silicone oil	"	36,760	80,797	58,052	138,828
Soyabean	"	1,284,788	140,493	1,163,052	158,666
Tall (refined and crude)	"	6,345,726	238,129	14,976,601	778,734
Other oils	"	..	616,975	..	701,431

TABLE 5. Materials Used: Other Chemical Industries, 1960 and 1961 - Continued

Material	1960		1961		
	Quantity	Cost at plant	Quantity	Cost at plant	
		\$		\$	
(b) Other chemical industries, n.e.s. - Continued					
Paradichlorobenzene	lb.	2,471,050	296,918	2,272,680	264,070
Pentachlorophenol	"	77,727	18,842	81,523	18,192
Petroleum distillates (naphtha, gasoline, etc.)	gal.	3,071,862	887,384	4,104,339	1,275,140
Phenol	lb.	523,512	92,080	542,617	86,904
Phosphorus, amorphous	"	23,289	13,197	25,283	14,201
Phosphorus sesquisulphide	"	55,115	17,768	34,253	15,011
Phthalic anhydride	"	257,279	50,486	370,126	78,360
Potassium bichromate	"	98,841	17,987	121,378	21,975
Potassium chlorate	"	753,110	106,572	792,748	106,103
Potassium hydroxide (caustic potash)	"	854,638	62,816	606,218	53,430
Pyrethrum .....	...	...	131,407	...	39,700
Resins, synthetic	"	10,401,862	2,350,627	12,746,618	2,716,640
Rotenone	"	174,389	49,124	177,869	42,095
Rubber or latex	"	4,827,992	1,015,876	4,642,653	1,169,755
Shellac - Bleached	"	332,389	187,328	253,655	134,898
Orange	"	17,093	6,193	20,123	7,159
Other grades	"	240,460	115,821	166,656	92,256
Silica sand or ground quartz	"	2,104,797	37,447	3,111,038	34,577
Sodium bicarbonate	"	128,976	6,468	138,809	6,261
Sodium bichromate	"	674,457	97,735	833,466	119,863
Sodium carbonate (soda ash)	"	6,089,478	157,173	6,485,517	162,792
Sodium chlorate	"	946,160	75,947	749,978	58,187
Sodium chloride (common salt)	"	1,098,452	16,006	1,482,359	21,235
Sodium fluoride	"	262,160	30,349	299,179	35,694
Sodium hydroxide (caustic soda)	"	10,373,832	383,566	10,051,853	371,247
Sodium, phosphates of - Monosodium phosphate	"	455,815	51,366	420,157	47,742
Disodium phosphate	"	738,537	68,980	695,735	65,860
Trisodium phosphate	"	1,751,784	103,347	2,178,300	130,100
Tetrasodium phosphate	"	95,401	11,321	166,482	18,695
Sodium tripolyphosphate	"	2,442,012	251,268	2,319,922	235,220
Tetrasodium pyrophosphate	"	457,459	45,667	616,438	60,946
Sodium prussiate	"	31,225	5,052	34,225	5,333
Sodium silicate	"	61,901,123	687,836	67,373,250	742,003
Starch, corn	"	1,152,225	104,230	1,020,829	86,215
Sugar	"	680,632	52,688	737,122	58,775
Sulphur	"	5,990,326	89,136	7,738,883	113,710
Talc, ground	"	6,193,029	74,547	7,342,031	88,662
Tar, coal (crude)	gal.	34,239,294	4,741,477	27,161,442	3,880,389
Tar, watergas (crude)	"	17,356	2,403	-	-
Titanium oxide	lb.	590,445	141,569	689,561	165,724
Toluol (toluene)	"	2,204,895	100,671	2,924,244	122,344
Turpentine	gal.	58,870	46,159	25,543	20,388
Urea	lb.	681,017	45,279	1,835,977	99,180
Varnishes	gal.	2,182	5,787	3,434	12,724
Wax - Beeswax	lb.	186,188	97,234	160,941	88,191
Candelilla	"	41,802	25,040	12,323	7,897
Carnauba	"	768,716	600,614	496,894	374,546
Ouricury	"	14,986	10,172	273	165
Paraffin (including slack wax)	"	53,367,472	2,247,786	52,600,991	2,139,163
Synthetic	"	1,284,833	490,436	1,247,723	525,886
Other waxes	"	952,394	252,029	658,393	229,665
Xylol (xylene)	"	3,107,282	141,563	3,500,112	158,216
Zinc oxide	"	420,105	60,581	292,357	43,748
Zinc sulphate	"	257,111	18,552	268,681	17,695

TABLE 5. Materials Used: Other Chemical Industries, 1960 and 1961 - Concluded

Material	1960		1961	
	Quantity	Cost at plant	Quantity	Cost at plant
		\$		\$
(b) Other chemical industries, n.e.s. - Concluded				
2, 4-D, technical	lb. 1, 663, 560	659, 720	3, 074, 722	1, 068, 062
Hardwoods	cord 18, 100	196, 903	11, 877	138, 042
Paper board	lb. 2, 931, 678	257, 467	6, 311, 587	558, 702
Wood blocks	M. bd. ft. 1, 487 ^r	376, 435	1, 413	351, 727
Wood splints .....	..	89, 059	..	124, 105
All other materials ¹ .....	..	29, 549, 572	..	34, 806, 139
Containers, boxes, etc. ....	..	11, 486, 029	..	11, 437, 996
Totals .....	...	70, 377, 258	...	77, 364, 106
Grand total .....	...	77, 987, 815	...	85, 726, 309

¹ Nodetailed information on materials used was collected from small establishments. The estimated value of materials used by these establishments was \$2,545,800 in 1961 and this amount is included in "All other materials". The value of shipments actually reported by these small establishments was \$5,658,720.

Note: Data for 1960 presented in above table are based on the revised 1960 Standard Industrial Classification without revisions for the New Establishment Concept. While not exactly comparable with 1961 figures, actual differences are minimal.

TABLE 6. Factory Shipments of Printing Inks and Printers' Rollers, 1957-61
(from All Industries)

Year	Printing Inks		Printers' rollers and composition
	pounds	\$	\$
1957	30, 175, 000	14, 810, 000	764, 000
1958	30, 679, 000	14, 622, 000	830, 000
1959	33, 041, 000	16, 001, 000	822, 000
1960	33, 557, 000	16, 339, 000	1, 089, 000
1961	35, 539, 000	17, 698, 000	1, 065, 000

TABLE 7. Factory Shipments of Writing Inks, 1957-61
(from All Industries)

Year	Selling value at plant
	\$
1957	489, 000
1958	575, 000
1959	555, 000
1960	556, 000
1961	633, 000

TABLE 8. Factory Shipments of Boiler Compounds, 1957-61
(from All Industries)

Year	Selling value at plant			
	For use by railroads	For marine use	For industrial use	Total
	dollars			
1957	609, 000	125, 000	2, 489, 000	3, 223, 000
1958	446, 000	140, 000	2, 653, 000	3, 239, 000
1959	315, 000	156, 000	3, 199, 000	3, 670, 000
1960	189, 000	158, 000	3, 974, 000	4, 321, 000
1961	190, 000	189, 000	3, 976, 000	4, 355, 000

TABLE 9. Factory Shipments of Charcoal, 1957 - 61
(from All Industries)

Year	Quantity
	tons
1957	13, 234
1958	15, 112
1959	14, 310
1960	17, 411
1961	13, 398

TABLE 10. Factory Shipments of Disinfectants and Deodorants, 1957 - 61
(from All Industries)

Year	Selling value at plant	
	Disinfectants	Deodorants ¹
	dollars	
1957	1, 275, 000	696, 000
1958	1, 325, 000	848, 000
1959	1, 357, 000	528, 000
1960	1, 387, 000	1, 594, 000
1961	1, 218, 000	1, 613, 000

¹ Does not include personal type.

TABLE 11. Factory Shipments of Pest Control Products of All Kinds,¹ 1957 - 61
(from All Industries)

Year	Selling value at plant
	\$
1957	6, 874, 000
1958	8, 049, 000
1959	8, 851, 000
1960	11, 166, 000
1961	13, 741, 000

¹ 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 14, are not included.

TABLE 12. Factory Shipments of Book Matches, 1957 - 61
(from All Industries)

Year	Quantity	Selling value at plant
	No.	\$
1957	592, 311, 000	1, 907, 000
1958	641, 012, 000	2, 196, 000
1959	675, 292, 000	2, 816, 000
1960	727, 604, 000	3, 025, 000
1961	747, 034, 000	3, 023, 000

TABLE 13. Factory Shipments of Sweeping Compounds, 1957-61
(from All Industries)

Year	Selling value at plant
	\$
1957	933,000
1958	944,000
1959	999,000
1960	1,337,000
1961	1,104,000

TABLE 14. Factory Shipments of Herbicides (Weed killer), 1957-61
(from All Industries)

Year	Selling value at plant
	\$
1957	2,897,000
1958	2,443,000
1959	3,598,000
1960	3,572,000
1961	4,252,000

TABLE 15. Factory Shipments of Polishes, 1959-61
(from All Industries)

Product		1959	1960	1961
Floor wax, paste	lb.	8,449,216	9,413,534	9,023,000
	\$	3,440,386	4,109,337	3,614,000
Floor wax and polish, liquid ¹	Imp. gal.	4,546,837	5,074,573	5,059,000
	\$	11,965,726	13,884,827	14,189,000
Shoe polishes and dressings	\$	1,064,466	1,092,085	1,704,000
Furniture polish	\$	1,009,440	574,292	858,000
Stove polishes	\$	25,275	20,831	18,000
Brass polishes	\$	102,143	80,739	37,000
Silver polishes	\$	165,281	197,586	81,000
Auto polishes, including wax	\$	777,233	1,180,225	1,077,000
Polishes, kind not specified	\$	160,386	246,775	212,000
Totals	\$	18,710,336	21,386,697	21,790,000

¹ Includes self-polishing wax.

TABLE 16. Factory Shipments¹ of Creosote Oils, Pitch and Refined Tars, 1957-61

Year	Creosote and other oils	Pitch	Refined tar, tarvia, etc.
	Imp. gal.	ton	Imp. gal.
1957	11,984,000	121,000	2,976,000
1958	9,576,000	114,000	3,214,000
1959	10,666,000	134,000	2,540,000
1960	14,079,000	127,000	2,630,000
1961	9,202,000	80,000	3,754,000

¹ Since 1959 includes shipments by distilleries included as divisions of establishments classified to Asphalt Roofing Manufacturers.

TABLE 17. Crude Tar Used in Tar Distilleries,¹ 1957-1961

Year	Imp. gal.
1957	40,946,000
1958	36,447,000
1959	38,039,000
1960	37,277,000
1961	29,030,000

¹ Including tar used by distilleries included as divisions of establishments classified to Asphalt Roofing Manufacturers.

TABLE 18. Factory Shipments of Adhesives, 1960 and 1961
(from All Industries)

Item	1960		1961	
	Quantity	Value of factory shipments	Quantity	Value of factory shipments
		\$		\$
Cement:				
Linoleum	lb. 11,988,000	792,000	13,413,000	832,000
Rubber	gal. 882,000	2,988,000	1,097,000	3,641,000
Other .....	...	571,000 ¹	...	353,000
Glue:				
Bone and hide ¹	lb. 6,330,000	1,547,000	6,619,000	1,534,000
Casein	" 1,451,000	415,000	1,253,000	310,000
Flexible	" 2,557,000	649,000	2,446,000	619,000
Fish	" ..	788,000	..	1,201,000
Synthetic resin - Polyvinyl (acetate and/or alcohol)	lb. 9,390,000	3,195,000	14,061,000	4,072,000
Other	2	2	1	1
Vegetable:				
Dry	lb. 3,997,000	582,000	3,905,000	620,000
Liquid	" 16,334,000	1,874,000	17,969,000	1,982,000
Other	—	—	—	—
Latex adhesive	lb. 1,491,000	523,000	1,846,000	598,000
Mucilage and paste .....	...	1,179,000	...	1,335,000
Adhesives, other .....	...	1,491,000	...	2,437,000

¹ Includes some imported glue used to increase the bonding strength of this type of glue.

² The largest volume of adhesives in this class is accounted for by a group of urea-formaldehyde and phenol-formaldehyde resin solutions which are sold for other applications as well. Under these circumstances it is difficult to develop separate comprehensive figures for this class of adhesive which are not likely to be subject to misinterpretation. For this reason details on this class of adhesive are omitted; however, the reader is referred to totals for urea-formaldehyde and phenol-formaldehyde resins for all applications which are carried in Table 5 of the report Manufacturers of Plastics and Synthetic Resins, Catalogue No. 46-211.

TABLE 19. Principal Statistics classified according to Type of Ownership: Other Chemical Industries, by Sub-groups, 1961

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
	number			dollars		
Manufacturers of printing inks:						
Partnerships	1	971	4,622,088	192,853	8,362,203	19,074,459
Incorporated companies	31					
Totals	32	971	4,622,088	192,853	8,362,203	19,074,459
Other chemical industries, n.e.s.:						
Individual ownership	48	113	322,553	18,360	478,477	1,010,087
Partnerships	8	31	72,513	8,050	134,058	300,153
Incorporated companies	257	5,303	23,155,299	2,343,346	76,751,571	149,408,396
Co-operatives	1					
Totals	314	5,447	23,550,365	2,369,766	77,364,106	150,718,636

**TABLE 20. Principal Statistics grouped according to Selling Value of Factory Shipments:
Other Chemical Industries, by Sub-groups, 1961**

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
	number			dollars		
Manufacturers of printing inks:						
Under \$10,000	1	6	16,121	700	11,000	37,631
\$ 10,000 to \$ 24,999	2					
25,000 " 99,999	4	22	103,788	3,262	199,134	325,556
100,000 " 199,999	4	38	163,437	6,053	204,222	504,614
200,000 " 499,999	9	123	646,588	32,822	1,283,243	3,032,489
500,000 " 999,999	6	194	900,112	38,354	2,194,396	4,638,260
1,000,000 and over	6	588	2,792,042	111,662	4,470,208	10,535,909
Totals	32	971	4,622,088	192,853	8,362,203	19,074,459
Other chemical industries, n.e.s.:						
Under \$10,000	32	49	83,759	4,008	65,441	178,024
\$ 10,000 to \$ 24,999	40	90	243,449	18,456	268,575	662,398
25,000 " 49,999	37	151	502,108	23,868	605,661	1,401,952
50,000 " 99,999	26	153	587,018	30,621	761,904	1,803,389
100,000 " 199,999	42	325	1,263,550	66,327	3,004,699	5,860,938
200,000 " 499,999	53	823	3,184,541	243,391	9,041,941	16,831,812
500,000 " 999,999	40	1,025	4,789,408	450,336	13,939,982	28,652,451
1,000,000 " 4,999,999	43	2,817	12,791,413	1,532,759	49,675,903	95,327,672
5,000,000 and over	1					
Head offices	—	14	105,119	—	—	—
Totals	314	5,447	23,550,365	2,369,766	77,364,106	150,718,636

TABLE 21. Employees and their Earnings: Other Chemical Industries, 1961

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
Nova Scotia	7	2	37	—	46	40,502	133,139	173,641
Quebec	433	239	837	119	1,628	3,485,100	3,202,599	6,687,699
Ontario	1,059	721	2,136	433	4,349	9,811,255	10,036,407	19,847,662
Manitoba	23	15	53	8	99	144,776	207,407	352,183
Saskatchewan	8	4	16	1	29	58,929	48,750	107,679
Alberta	16	5	17	1	39	84,774	55,731	140,505
British Columbia	53	31	130	14	228	343,653	519,431	863,084
Canada	1,599	1,017	3,226	576	6,418	13,968,989	14,203,464	28,172,453

TABLE 22. Production Workers, by Months: Other Chemical Industries, 1961

Month	Establishments reporting monthly detail ¹		Establishments reporting quarterly detail ²	
	Male	Female	Male	Female
January	2,763	437		
February	2,782	475		
March	2,817	474	141	57
April	2,898	488		
May	2,927	469		
June	2,950	488	148	56
July	2,923	493		
August	2,984	477		
September	2,871	480	135	55
October	2,855	456		
November	2,812	444		
December	2,786	425	132	42
Average for establishments reporting monthly detail			2,868	468
Average for establishments reporting quarterly detail			140	52
Average estimated for small establishments ³			218	56
Average for all establishments			3,226	576

¹ The number of production workers, by months, was collected only for large establishments.

² The number of production workers, by quarters, was collected only for medium-size establishments.

³ The monthly detail of production workers was not collected from small establishments. Only annual averages were collected from these establishments.

TABLE 23. Fuel and Electricity Used: Other Chemical Industries, 1961

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal:		
(a) From Canadian mines	ton 672	9,771
(b) Imported	36,529	397,117
Anthracite coal	" 1,100	18,245
Lignite coal	" 17	143
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 342,006	139,511
Fuel oil including kerosene or coal oil	" 8,525,675	874,666
Gas:		
(a) Liquefied petroleum gases	" 12,666	3,262
(b) Other manufactured gas	M cu. ft. 271,108	72,919
(c) Natural gas	" 227,107	102,977
Other fuel	"	36,738
Electricity purchased	kwh. 58,388,869	584,920
Steam purchased	"	163,196
2. Establishments reporting group detail: ²		
Cost of fuel .....	..	59,770
Cost of electricity .....	..	20,884
3. Estimate for establishments for which no data were collected: ³		
Cost of fuel and electricity .....	..	78,500
4. All establishments:		
Total cost of fuel and electricity .....	..	2,562,619

¹ Large establishments.

² Medium-size establishments.

³ Small establishments.

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