

CATALOGUE No.

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ANNUAL



GLASS AND GLASS PRODUCTS MANUFACTURERS

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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SYMBOLS

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

... figures not appropriate or not applicable.

— nil or zero.

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.

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GLASS AND GLASS PRODUCTS MANUFACTURERS

1961

Data presented in this report under the heading of Glass and Glass Products Manufacturers 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 Glass and Glass Products Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing flat glass, plate glass, glass containers, glassware, ovenware, glass brick, fibrous glass products except textile fabrics, mirrors, stained, leaded and ornamented glass, glass novelties and other articles made from glass. This industry includes establishments primarily engaged in etching or painting glass or glassware. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in the Scientific and Professional

Equipment Manufacturers industry. And establishments primarily engaged in spinning glass yarns or weaving glass fabrics are classified in the Synthetic Textile Mills industry.

The introduction of the new definition of establishment (reporting unit) in the 1961 Census of Manufactures has resulted in certain changes and necessitated some adjustments to the statistics. For the industry under review such changes were minimal. Table 1B reflects the adjustments resulting from the new concept changes, for the years 1957 to 1961.

Due to increased work loads and staff shortages it has been necessary to suspend publication of certain tables normally contained in the reports issued in the Census of Manufactures series. 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 and Capital and Repair Expenditures.

TABLE 1 A. Principal Statistics of the Glass and Glass Products Industry, Significant Years 1929 - 59
Basis: Standard Industrial Classification in use prior to 1960

Year	Establishments	Employees	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		
1929	60	3,948	4,740,676	1,323,150	5,355,156	8,829,136	15,507,442
1933	66	2,597	2,586,370	717,701	2,950,309	4,162,785	7,830,795
1937	77	3,799	4,289,031	1,030,993	5,768,738	7,637,519	14,437,250
1939	73	3,372	3,948,603	888,316	4,559,732	7,081,002	12,529,050
1945	103	5,830	9,043,864	1,866,240	10,467,286	15,947,871	28,281,397
1946	114	5,921	9,278,360	1,863,561	10,583,240	15,158,454	27,605,255
1949	102	5,854	13,126,027	2,858,765	16,607,403	22,932,161	42,398,329
1955	108	7,870	26,291,404	4,173,712	31,000,677	45,139,201	80,830,622
1956	112	8,173	28,331,205	4,853,921	35,480,541	47,333,842	87,168,541
1957	115	7,946	28,317,234	4,973,762	34,881,568	51,191,256	90,823,646
1958	102	7,879	30,328,355	4,636,867	36,085,066	53,165,011	93,818,849
1959	101	8,842	34,967,391	4,948,320	42,896,582	61,670,605	107,747,430

TABLE 1B. Principal Statistics, Glass and Glass Products Manufacturers, 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							
Quebec	37	2,733	9,538,620	2,276,397	9,202,862		25,419,175
Ontario	57	4,476	16,561,063	2,611,741	22,471,009		57,718,253
British Columbia	7	58	148,795	5,419	233,835	1	418,937
All other provinces	6	609	1,850,232	61,823	2,724,096		6,673,696
Canada	107	7,876	28,098,710	4,955,380	34,631,802		90,230,061
1958							
Quebec	34	2,879	10,779,979	2,055,624	10,411,797	16,435,407	28,972,086
Ontario	49	4,244	17,118,412	2,495,752	22,227,059	32,094,357	56,611,717
British Columbia	5	35	127,237	3,608	248,530	208,004	459,052
All other provinces	8	651	2,112,639	63,835	2,976,558	4,246,149	7,343,450
Canada	96	7,809	30,138,267	4,618,819	35,863,944	52,983,917	93,386,305
1959							
Quebec	33	3,221	12,381,435	2,035,433	11,347,248	17,428,868	29,603,550
Ontario	47	4,801	19,857,467	2,830,838	27,582,951	38,719,270	68,692,485
British Columbia	5	31	98,548	5,717	270,570	181,730	459,082
All other provinces	9	735	2,510,115	61,879	3,670,579	5,136,751	8,686,938
Canada	94	8,788	34,847,565	4,933,867	42,871,348	61,466,619	107,442,055
1960							
Quebec	32	3,306	13,100,746	2,041,553	11,380,919	16,029,718	28,674,508
Ontario	51	4,806	20,456,902	2,701,250	24,269,341	38,725,172	65,240,882
British Columbia	6	36	105,585	5,026	255,333	204,132	463,862
All other provinces	12	805	2,879,229	103,126	4,098,547	5,522,747	9,653,297
Canada	101	8,953	36,542,462	4,850,955	40,004,140	60,481,769	104,032,549
1961							
Quebec	30	3,341	14,001,880	1,985,211	10,543,750	21,053,512	32,866,191
Ontario	58	5,092	21,983,296	2,821,626	27,353,994	38,775,241	67,873,629
British Columbia	6	40	134,945	3,588	225,759	220,946	450,561
All other provinces	15	901	3,420,642	130,353	5,377,363	6,371,201	11,963,812
Canada	109	9,374	39,540,763	4,940,778	43,500,866	66,420,900	113,154,193

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

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

TABLE 2. Principal Statistics, Glass and Glass Products Manufacturers, by Sub-groups, 1961
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		
Glass manufacturers	12	6,714	28,215,533	4,131,273	21,098,981	44,338,779	68,110,652
Glass products manufacturers ..	97	2,660	11,325,230	809,505	22,401,885	22,082,121	45,043,541
Totals	109	9,374	39,540,763	4,940,778	43,500,866	66,420,900	113,154,193

TABLE 3. Inventories:¹ Glass and Glass Products Manufacturers, 1961

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
By provinces				
Opening:				
Quebec	2,496,662	87,484	4,385,939	6,970,085
Ontario	6,327,247	966,128	4,007,761	11,301,136
British Columbia	67,451	1,700	2,338	71,489
All other provinces	1,009,238	11,430	1,159,576	2,180,244
Canada	9,900,598	1,066,742	9,555,614	20,522,954
Closing:				
Quebec	2,423,445	114,736	5,074,969	7,613,150
Ontario	6,045,181	983,347	5,067,774	12,096,302
British Columbia	89,772	850	2,920	93,542
All other provinces	1,061,323	12,231	1,073,880	2,147,434
Canada	9,619,721	1,111,164	11,219,543	21,950,428
By sub-groups				
Opening:				
Glass manufacturers	4,451,836	227,818	8,417,059	13,096,713
Glass products manufacturers	5,448,762	838,924	1,138,555	7,426,241
Canada	9,900,598	1,066,742	9,555,614	20,522,954
Closing:				
Glass manufacturers	4,083,016	414,562	9,688,696	14,186,274
Glass products manufacturers	5,536,705	696,602	1,530,847	7,764,154
Canada	9,619,721	1,111,164	11,219,543	21,950,428

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 in 1961, changes in classification and the implementation of the New Establishment Concept.

TABLE 4. Factory Shipments: Glass and Glass Products Manufacturers, 1960 and 1961

Product	Value of factory shipments	
	1960	1961
dollars		
Glass products manufacturers:		
Mirrors:		
Plate glass	3,463,054	3,152,030
Sheet glass	606,091	1,088,768
Other products of glass:		
Bevelled or polished edge plate	383,906	359,949
Bevelled or polished edge sheet glass	438,813	235,143
Leaded glass, including memorial windows	286,110	366,121
Cut glass (tumblers, bowls, etc.)	800,133	790,481
Decorated glassware (including engraved, etched, sand-blasted, applied colour, etc.)	1,345,839	1,547,484
Druggists', physicians' and laboratory glassware	652,588	889,049
Insulating multi-pane window units, air seal (hermetically sealed)	4,998,871	7,340,306
Other glass products	28,337,115	27,899,548
All other products	676,403	1,489,822
Less adjustments for values of sales taxes, excise duties and outward transportation charges which were not deducted from individual commodity items detailed above ..	—	115,160
Totals	41,988,923	45,043,541
Glass manufacturers:		
Pressed, blown and drawn glass (including bottles, sealers, ovenware, window glass, etc.)	62,553,640	68,110,652
Grand totals	104,542,563	113,154,193

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

TABLE 5. Materials Used: Glass and Glass Products Manufacturers, 1960 and 1961

Material	Cost at plant				
	1960		1961		
	dollars				
Glass products manufacturers:					
Bevelled or polished edge plates		672,041		413,233	
Bevelled or polished edge sheets		68,564		7,233	
Figured and cathedral glass, leaded glass, etc.		59,314		32,542	
Glass blanks for making cut glass articles		270,632		277,790	
Glass tubing		61,000		73,326	
Plate glass used for bevelling, silvering, laminating, etc.		8,306,852		9,850,713	
Sheet glass used for bevelling, silvering, laminating, etc.		2,703,534		3,845,402	
Grinding and polishing materials		99,896		110,578	
Silver nitrate		74,914		50,799	
Containers, boxes, packages, etc.		523,572		666,539	
All other materials ¹		5,720,994		7,073,740	
Totals		18,561,313		22,401,885	
	Quantity	Cost at plant	Quantity	Cost at plant	
		\$		\$	
Glass manufacturers:					
Arsenic	lb	224,663	15,842	219,934	15,005
Barytes	"	732,608	23,284	823,352	26,630
Borax	"	943,914	48,663	904,347	54,443
Cobalt oxide	"	6,542	9,372	5,240	6,660
Chromite	ton	108	8,043	101	7,799
Cullet	"	28,444	391,509	27,942	390,758
Fluorspar	"	733	48,561	739	48,598
Lime	"	54,413	624,042	59,414	693,488
Nepheline syenite	"	27,810	543,799	31,849	531,105
Salt cake	lb.	5,625,724	101,555	5,512,351	94,637
Selenium (metal and salts)	"	6,662	44,676	5,841	37,999
Silica sand	ton	286,674	2,605,523	312,828	2,874,918
Shipping containers and packing materials	4,266,587	...	4,321,592	
All other materials	12,955,697	...	11,995,349	
Totals	21,687,153	...	21,098,981	
Grand totals	40,248,466	...	43,500,866	

¹ No detailed information on materials used was collected from small establishments. The estimated value of materials used by these firms was \$885,806 in 1960 and \$571,970 in 1961. These amounts are included in "All other materials".

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

TABLE 6. Factory Shipments of Metal Windows (from All Industries), 1952 - 1961
(Residential, Factory and Commercial Use)

Year	Aluminum	Steel	Combination storm and screen		Insulating multi-pane window units air seal (hermetically sealed)
			Aluminum	Steel	
	dollars				
1952	2,145,000	2,794,000	2,307,000	479,000	1
1953	4,591,000	2,896,000	2,558,000	681,000	1
1954	7,192,000	3,414,000	4,098,000	628,000	1
1955	12,304,000	2,903,000	5,686,000	720,000	1
1956	13,193,000	5,107,000	6,710,000	2	1
1957	19,441,000	4,931,000	7,399,000	2	1
1958	22,416,000	4,245,000	8,877,000	2	1
1959	22,152,000	4,036,000	12,051,000	2	1
1960	11,453,000	5,650,000	15,847,000	2	5,851,000
1961	17,663,000	4,378,000	15,147,000	2	9,394,000

¹ New category for 1960—Included in other categories previously.

² Included in "Steel", column 2.

TABLE 7. Principal Statistics Classified according to Type of Ownership:
Glass and Glass Products Manufacturers, 1961

Type	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
Individual ownership	25	108	350,972	367,838	879,724
Partnerships	6	40	131,237	149,471	398,578
Incorporated companies	78	9,226	39,058,554	42,983,557	111,875,891
Totals	109	9,374	39,540,763	43,500,866	113,154,193

TABLE 8. Principal Statistics grouped according to Selling Value of Factory Shipments:
Glass and Glass Products Manufacturers, 1961

Establishments reporting value of factory shipments	Establishments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	number		dollars		
Under \$10,000	5	10	16,423	9,986	34,781
\$ 10,000 to \$ 24,999	16	49	135,732	102,098	281,203
25,000 " 49,999	15	56	167,717	198,250	494,507
50,000 " 99,999	14	131	395,926	418,321	1,020,762
100,000 " 199,999	13	209	769,283	812,220	1,886,419
200,000 " 499,999	20	411	1,412,698	2,904,460	5,366,954
500,000 " 999,999	8	404	1,413,312	2,752,203	5,001,632
1,000,000 " 4,999,999	11	1,707	7,789,393	11,569,913	29,465,994
5,000,000 and over	7	6,306	26,793,096	24,733,415	69,601,941
Head offices	—	91	647,183	—	—
Totals	109	9,374	39,540,763	43,500,866	113,154,193



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TABLE 9. Employees and their Earnings: Glass and Glass Products Manufacturers, by Provinces, 1961

Province	Employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
Quebec	458	170	2,341	372	3,341	3,313,615	10,688,265	14,001,880
Ontario	652	309	3,296	835	5,092	4,931,352	17,051,944	21,983,296
British Columbia	9	3	24	4	40	47,178	87,767	134,945
Other provinces	100	33	507	261	901	645,117	2,775,525	3,420,642
Canada	1,219	515	6,168	1,472	9,374	8,937,262	30,603,501	39,540,763

TABLE 10. Production Workers, by Months: Glass and Glass Products Manufacturers, 1961

Month	Establishments reporting monthly detail ¹		Establishments reporting quarterly detail ²	
	Male	Female	Male	Female
January	5,471	1,076		
February	5,520	1,105		
March	5,497	1,179	214	82
April	5,506	1,318		
May	5,782	1,379		
June	5,882	1,471	242	98
July	5,820	1,504		
August	6,082	1,544		
September	6,093	1,380	236	93
October	6,087	1,446		
November	6,041	1,422		
December	6,034	1,446	223	104
Average for establishments reporting monthly detail			5,824	1,355
Average for establishments reporting quarterly detail			229	94
Average estimated for small establishments ³			115	23
Average for all establishments			6,168	1,472

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 11. Fuel and Electricity Used: Glass and Glass Products Manufacturers, 1961**

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal - Imported	ton 2,805	32,617
Anthracite coal	" 12	312
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 273,288	101,419
Fuel oil including kerosene or coal oil	" 31,984,335	2,393,274
Gas:		
(a) Liquefied petroleum gases	" 80,581	18,543
(b) Natural gas	M cu. ft. 1,481,240	1,014,331
Other fuel	" 115	9,645
Electricity purchased	kwh. 196,301,777	1,271,094
2. Establishments reporting group detail: ²		
Cost of fuel	42,184
Cost of electricity	27,007
3. Estimate for establishments for which no data were collected: ³		
Cost of fuel and electricity	30,352
4. All establishments:		
Total cost of fuel and electricity	4,940,778

¹ Large establishments.² Medium-size establishments.³ Small establishments.