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GLASS AND GLASS PRODUCTS MANUFACTURERS 1960

Formerly The Glass and Glass Products Industry

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 1960 Cansus 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. Adoption of the revised Standard Industrial Classification for 1960 compilations has necessitated changes in titles of many reports in this annual series. The content of many industries has also been affected (see following note on Industrial Classification).

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 1960 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, ware-

housing 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 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 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.

Standard Industrial Classification

The revised Standard Industrial Classification which has been 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. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. 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.

Many industries remain unchanged in the new classification but in many instances there have been substantial changes in content because of the shifting of establishments from one industry to another or in re-grouping of establishments. Where

changes have occurred the principal statistics for 1957, 1958 and 1959 have been re-compiled to provide data on a basis comparable with those for 1960.

Short Forms

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

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

For the 1959 Census, the short form was used again, but further steps were taken to ease the respondents' burden. First, the general limit for short forms was raised to \$100,000 value of shipments. In addition, a new intermediate form was developed. This form is a shortened version of the long form in that most of the general questions were pared down and the detailed lists of materials and products were limited to the more important items. The general limits for firms in this category were set at between \$100,000-\$500,000 value of shipments, but in the case of both the short and intermediate forms there were lower cut-offs for a number of industries in which the smaller firms accounted for a larger share of total shipments. On the other hand, limits were raised where this could be done without a significant loss of coverage. On most of the short forms for 1959, in addition to total value of shipments, data on principal products were requested. In a few industries, where loss of employment and earnings data were considered too large because of higher cut-offs, a question on total payroll was placed on the short form. This practice was followed again in 1960.

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

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

GLASS AND GLASS PRODUCTS MANUFACTURERS 1960

Data presented in this report under the heading . of Glass and Glass Products Manufacturers reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics - see item "Standard Industrial Classification" 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.

In many instances, adoption of the revised Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. However, in the case of establishments engaged in manufacturing glass and glass products, changes brought about by the implementation of the revised Standard Industrial Classification were minimal as evidenced in the comparative series of statistics presented in Tables 1A and 1B. Table 1A shows data for these establishments according to the "old" concept while Table 1B carries figures re-compiled on the "new" or revised Standard Industrial Classification basis.

There were 109 establishments classified as Glass and Glass Products Manufacturers in 1960; there being 37 in Quebec, 54 in Ontario, 5 in Manitoba, 1 in Saskatchewan, 6 in Alberta and 6 in British Columbia. Employees in the industry numbered 9,014; salaries and wages totalled \$36,711,533; fuel and electricity cost \$4,869,518; materials used in manufacturing processes cost \$40,248,466; and factory shipments were valued at \$104,542,563.

Pressed, blown and drawn glass was produced by 12 establishments classified as Glass Manufacturers in 1960. Shipments by these establishments were valued at \$62,553,640 and consisted of bottles and jars, ovenware, sheet and window glass. A total of 6,571 people were employed; salaries and wages paid amounted to \$26,558,555; and materials used cost \$21,687,153.

Ninety-seven other establishments classified as Glass Products Manufacturers were occupied mainly in manufacturing cut and bevelled glass such as mirrors and insulating multi-pane window units in 1960. Factory shipments of all products made in these establishments were valued at \$41,988,923. Employees numbered 2,443 and payments for salaries and wages totalled \$10,152,978. Materials used in manufacturing processes cost \$18,561,313 and fuel and electricity at plants amounted to \$719,557.

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

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 ¹	Selling value of factory shipments
BB371 24L00 7	num	ber	202,480	111,411 1.	dollars	14.2 20.5	1,320,3161
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
937	77	3,799	4, 289, 031	1,030,993	5, 768, 738	7, 637, 519	14,437,250
939	73	3, 372	3,948,603	888,316	4,559,732	7,081,002	12,529,050
945	103	5,830	9,043,864	1,866,240	10, 467, 286	15, 947, 871	28, 281, 397
946	114	5, 921	9,278,360	1,863,561	10,583,240	15, 158, 454	27,605,255
949	102	5,854	13, 126, 027	2,858,765	16,607,403	22, 932, 161	42,398,329
955	108	7,870	26, 291, 404	4, 173, 712	31,000,677	45, 139, 201	80,830,622
956	112	8,173	28, 331, 205	4, 853, 921	35, 480, 541	47, 333, 842	87, 168, 541
957	115	7, 946	28, 317, 234	4, 973, 762	34,881,568	51,191,256	90,823,646
958	102	7,879	30, 328, 355	4,636,867	36,085,066	53, 165, 011	93, 818, 849
959	101	8,842	34, 967, 391	4,948,320	42,896,582	61,670,605	107, 747, 430

¹ See note to text.

TABLE 1B. Principal Statistics, Glass and Glass Products Manufacturers, by Provinces, 1957-60 Basis: Standard Industrial Classification revised 1960

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 ¹	Selling value of factory shipments
1957	num	ber			dollars	17.5441	
Quebec Ontario British Columbia All other provinces	42 60 8 6	2,777 4,500 69 609	9, 686, 476 16, 627, 136 183, 795 1, 850, 232	2, 290, 172 2, 618, 957 5, 419 61, 823	9,541,320 22,559,240 255,435 2,724,096	2	26, 014, 397 57, 898, 320 474, 937 6, 674, 210
Canada	116	7, 955	28, 347, 639	4,976,371	35, 080, 091		91,061,873
1958							
Quebec Ontario British Columbia All other provinces	38 52 5 8	2,939 4,262 35 651	10, 956, 406 17, 170, 240 127, 237 2, 112, 639	2,071,092 2,501,663 3,608 63,835	10, 754, 146 22, 290, 482 248, 530 2, 976, 558	3	29, 558, 643 56, 720, 286 459, 052 7, 344, 945
Canada	103	7,887	30, 366, 522	4,640,198	36, 269, 716		94,082,926
1959							
Quebec Ontario British Columbia All other provinces	38 50 5	3, 267 4, 817 31 735	12,507,867 19,891,967 98,548 2,510,115	2,046,770 2,836,138 5,717 61,879	11,505,302 27,639,651 270,570 3,670,579	2	30, 014, 691 68, 815, 564 459, 082 8, 689, 216
Canada	102	8,850	35,008,497	4,950,504	43, 086, 102		107, 978, 553
1960							
Quebec Ontario British Columbia All other provinces	37 54 6 12	3,349 4,824 36 805	13, 229, 602 20, 497, 117 105, 585 2, 879, 229	2, 054, 594 2, 706, 772 5, 026 103, 126	11, 557, 665 24, 336, 921 255, 333 4, 098, 547	16, 336, 695 38, 779, 538 204, 132 5, 525, 161	29, 048, 476 65, 374, 514 463, 862 9, 655, 711
Canada	109	9.014	36,711,533	4,869,518	40, 248, 466	60.845.526	104, 542, 563

TABLE 2. Principal Statistics, Glass and Glass Products Manufacturers, by Sub-groups, 1959 and 1960

Basis: Standard Industrial Classification revised 1960

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 ¹	Selling value of factory shipments
1959	nun	ber			dollars		
Glass manufacturers	10 92	6,339 2,511	24, 828, 185 10, 180, 312	4, 256, 588 693, 916	20, 962, 410 22, 123, 692	2	61, 999, 557 45, 978, 996
Totals	102	8,850	35, 008, 497	4,950,504	43, 086, 102		107, 978, 553
1960							
Glass manufacturers	12 97	6, 571 2, 443	26, 558, 555 10, 152, 978	4, 149, 961 719, 557	21, 687, 153 18, 561, 313	37, 854, 382 22, 991, 144	62, 553, 640 41, 988, 923
Totals	109	9,014	36,711,533	4,869,518	40, 248, 466	60,845,526	104, 542, 563

¹ See note to text.
² The changeover to the new classification has delayed the recompilation of "value added" figures for years prior to 1960 and same will not be available until the next issue of this report.

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.

See note to text.
The changeover to the new classification has delayed the recompilation of "value added" figures for prior years and same will not be available until the next issue of this report.

TABLE 3. Inventories: Glass and Glass Products Manufacturers, 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
		do	llars	
By provinces				
Opening:				
Quebec Ontario British Columbia All other provinces	2,607,147 6,913,017 53,235 969,510	96, 001 552, 221 12, 208	3,605,103 3,944,216 800 1,043,952	6,308,251 11,409,454 54,035 2,025,670
Canada	10, 542, 909	660, 430	8, 594, 071	19, 797, 410
Closing:				
Quebec	2, 524, 619 6, 445, 221 43, 953 850, 657	75, 902 966, 553 15, 754	4,525,680 3,978,601 1,429 1,111,529	7, 126, 201 11, 390, 375 45, 382 1, 977, 940
Canada	9, 864, 450	1, 058, 209	9, 617, 239	20, 539, 898
By sub-groups				
Opening:				
Glass manufacturers	4, 549, 301 5, 993, 608	163, 203 497, 227	7, 436, 926 1, 157, 145	12, 149, 430 7, 647, 980
Canada	10, 542, 909	660, 430	8, 594, 071	19, 797, 410
Closing:				
Glass manufacturers Glass products manufacturers	4, 592, 105 5, 272, 345	227, 818 830, 391	8, 510, 167 1, 107, 072	13, 330, 090 7, 209, 808
Canada	9, 864, 450	1,058,209	9, 617, 239	20, 539, 898

Book value of all manufacturing inventories owned and held at plant and plant warehouses.

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

Product	Value of factory shipment		
	\$		
Glass products manufacturers:			
Mirrors:			
Plate glass	3, 463, 054		
Sheet glass	606,091		
Other products of glass:			
Bevelled or polished edge plate	383,906		
Bevelled or polished edge sheet glass	438, 613		
Leaded glass, including memorial windows	286, 110 -		
Cut glass (tumblers, bowls, etc.)	800, 133		
Decorated glassware (including engraved, etched, sand-blasted, applied colour, etc.)	1, 345, 839		
Druggists', physicians' and laboratory glassware	652, 588		
Insulating multi-pane window units, air seal (hermetically sealed)	4, 998, 871		
Other glass products	28, 337, 115		
All other products	676, 403		
Total	41, 988, 923		
ilass manufacturers:			
Pressed, blown and drawn glass (including bottles, sealers, ovenware, window glass, etc)	62, 553, 640		
Grand total	104, 542, 563		

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

Material			Cost at plant
			\$
lass products manufacturers:			1-0 4
Bevelled or polished edge plates			672,041
Bevelled or polished edge sheets			68,564
Figured and cathedral glass, leaded glass, etc.		1 4 6 7 5 0 4 6 7 6 4 6 7 7 6 7 7 8 4 7 7 7 7 7 4 8 8 8 8 8 8 8 8 8 8	59,314
Glass blanks for making cut glass articles			270, 632
Glass tubing			61,000
Plate glass used for bevelling, silvering, laminating, etc			8, 306, 852
Sheet glass used for bevelling, silvering, laminating, etc			2, 703, 534
Grinding and polishing materials		******************************	99,896
Silver nitrate			74, 914
Containers, boxes, packages, etc.			523,572
All other materials ¹			5, 720, 994
Total			18,561,313
		Quantity	Cost at plant
			\$
Blass manufacturers:			
Arsenic	lb.	224,663	15,842
Barytes		732, 608	23, 284
Borax	**	943,914	48, 663
Cobalt oxide		6,542	9,372
Chromite		108	8,043
Cullet	44	28, 444	391,509
		733	48, 561
Lime	4.6	54, 413	624, 042
Nepheline syenite	44	27, 810	
			543,799
Salt cake	10.	5,625,724	101,555
Selenium (metal and salts)		6,662	44,676
Silica sand t	on.	286,674	2,605,523
Shipping containers and packing materials		***	4,266,587
All other materials		•••	12, 955, 697
Total		•••	21,687,153

¹ No detailed information on materials used was collected from firms generally reporting value of shipments of less than \$100,000. The total value of materials used by these firms in 1960 was \$885,806 and this amount is included in "all other materials".

TABLE 6. Factory Shipments of Metal Windows (from All Industries), 1952-1960 (Residential, Factory and Commercial Use)

Year	Aluminum	Steel	Combination and scr	Insulating multi-pane window units air seal	
	E SEE		Aluminum	Steel	(hermetically sealed)
			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
955	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
958	22, 416, 000	4, 245, 000	8,877,000	2	1
959	22, 152, 000	4,036,000	12,051,000	2	1
960	11, 453, 000	5,650,000	15,847,000	2	5, 851, 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, 1957 and 1960

Туре	Establish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
	nun	nber		dollars	
1957	No.			100	
Individual ownership	30	144	388, 248	462,699	1, 108, 355
Partnerships	16	94	211,673	271,052	644, 938
Incorporated companies	70	7,717	27, 747, 718	34, 346, 340	89, 308, 580
Totals	116	7,955	28, 347, 639	35, 080, 091	91, 061, 873
1960					U SECTION OF
Individual ownership	27	117	328,515	385, 708	943, 269
Partnerships	8	37	129,940	137, 141	366, 071
Incorporated companies	74	8,860	36, 253, 078	39, 725, 617	103, 233, 223
Totals	109	9, 014	36, 711, 533	40, 248, 466	104, 542, 563

TABLE 8. Principal Statistics grouped according to Selling Value of Factory Shipments:
Glass and Glass Products Manufacturers, 1957 and 1960

Establishments reporting value of factory shipments	Establish- ments	Employees	Salaries and wages	Cost at plant of materials used	Selling value of factory shipments
=	nu	mber		dollars	
1957					
Inder \$10,000 to \$ 24,999 25,000 ' 49,999 200,000 ' 199,999 200,000 ' 499,999 200,000 ' 499,999 200,000 ' 499,999 200,000 ' 4,999,999 200,000 ' 4,999,999 200,000 and over	11 21 18 17 17 17 3 6	16 59 109 161 330 450 155 2,119 4,471 85	26, 679 135, 209 286, 786 426, 214 1, 095, 2314 479, 991 7, 783, 192 16, 294, 493 517, 484	24, 690 118, 582 271, 209 572, 297 1, 226, 434 2, 567, 153 1, 170, 561 8, 137, 624 20, 991, 541	68, 756 356, 341 657, 148 1, 179, 746 2, 370, 456 4, 826, 259 2, 238, 569 24, 056, 376 55, 308, 222
Totals	116	7, 955	28, 347, 639	35, 080, 091	91, 061, 873
1960					
Under \$10,000 \$ 10,000 to \$ 24,999 \$ 25,000 '' 49,999 \$ 50,000 '' 99,999 \$ 200,000 '' 499,999 \$ 500,000 '' 499,999 \$ 1,000,000 '' 4,999,999 \$ 5,000,000 and over Head offices	7 18 18 12 15 17 7 9 6	12 44 95 111 221 398 385 1,965 5,680 103	20,077 120,412 267,015 321,154 714,107 1,218,000 1,489,384 8,868,279 23,041,486 651,619	19, 033 97, 444 274, 816 425, 889 1, 013, 545 2, 455, 065 10, 731, 259 23, 084, 110	43, 466 285, 022 647, 951 875, 443 2, 164, 092 4, 609, 306 4, 878, 599 27, 922, 658 63, 116, 026
Totals	109	9,014	36, 711, 533	40, 248, 466	104, 542, 563

TABLE 9. Employees and their Earnings: Glass and Glass Products Manufacturers, by Provinces, 1959 and 1960

			Cmployee				Earnings	
		E	rmbroaee	15			Earnings	
Province	Supervisory and office		Production workers		Total	Supervisory	Production	Total
	Male	Female	Male	Female	Total	and office	workers	10441
			number				dollars	
1959							E11, 17-11	
Quebec	438	204	2, 293	332	3, 267	2, 862, 143	9, 645, 724	12, 507, 867
Ontario	541	272	3, 314	690	4, 817	3, 852, 032	16, 039, 935	19, 891, 967
British Columbia	5	1	18	7	31	23, 854	74, 694	98, 548
Other provinces	70	18	372	275	735	397, 347	2, 112, 768	2, 510, 115
Canada	1, 054	495	5, 997	1,304	8, 850	7, 135, 376	27, 873, 121	35, 008, 497
1960	1							
Quebec	470	197	2, 364	318	3, 349	3, 104, 740	10, 124, 862	13, 229, 602
Ontario	608	303	3, 239	674	4,824	4, 480, 381	16, 016, 736	20, 497, 117
British Columbia	10	1	16	9	36	40, 988	64, 597	105, 585
Other provinces	85	25	443	252	805	513, 083	2, 366, 146	2, 879, 229
Canada	1, 173	526	6, 062	1, 253	9,014	8, 139, 192	28, 572, 341	36, 711, 533

TABLE 10. Production Workers, by Months: Glass and Glass Products Manufacturers, 1960

Month	Establishment monthly d	s reporting letail	Establishments reporting quarterly detail ²		
	Male	Female	Male	Female	
JanuaryFebruary	5, 607 5, 534	998 934			
March April May	5, 566 5, 678 5, 666	995 1,081 1,107	243	90	
June July	5, 969 5, 817 5, 679	1, 291 1, 258 1, 247	269	114	
August September October	5, 707 5, 633	1,114	283	112	
November	5, 661 5, 436	1, 208 1, 057	260	98	
Average for establishments reporting monthly detail		************************	5,666	1, 126	
verage for establishments reporting quarterly detail .		***************************************	264	103	
verage estimated for small establishments3		***************************************	132	24	
Average for all establishments	********************		6,062	1, 253	

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$300,000 and over.

The number of production workers, by quarters, was collected only for establishments generally reporting value of

shipments between \$100,000 and \$300,000.

TABLE 11. Fuel and Electricity Used: Glass and Glass Products Manufacturers, 1960

Kind	Quantity	Cost at plan
		\$
Establishments reporting commodity detail:1		
Bituminous coal - Importedton	3, 124	36, 486
Anthracite coal	72	1, 234
Gasoling (including gasoline used in cars and trucks) Imp. gal.	252, 157	88, 696
Fuel oil including kerosene or coal oil	31, 569, 246	2, 492, 512
Gas (a) Liquefied petroleum gases	68,526	11,583
(b) Natural gas	1, 473, 726	920, 287
Other fuel		18,001
Electricity purchased kwh.	183, 979, 408	1, 196, 198
Steam purchased	4 + +	1, 909
Establishments reporting group detail: ²		
Cost of fuel		33, 379
Cost of electricity	* * *	25, 253
Estimate for establishments for which no data were collected:		
Cost of fuel and electricity	* * *	43, 980
All establishments:		
Total cost of fuel and electricity	100	4, 869, 518

³ For establishments generally reporting value of shipments of less than \$100,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

¹ Establishments generally reporting value of shipments of \$300,000 and over.
2 Establishments generally reporting value of shipments between \$100,000 and \$300,000.
3 Establishments generally reporting value of shipments of less than \$100,000.

TABLE 12. Imports of Glass and Glass Products, 1959 and 1960

Item		1959	1960
Place out proceed or blown			MAS NA
lass, cut, pressed or blown:	934		12.5
Glass plates or discs, rough cut or unwrought, for the manufacture of optical instruments	\$	573, 157	572,579
Decanters and machine-made tumblers of glass, not cut or decorated,	100		Ball Co.
n.o.p. Lamp chimneys	\$ \$	583,117 43,768	539, 761 49, 133
Glass demijohns, carboys, bottles, flasks, phials and jars, and balls, not			
Cut	\$	7, 282, 302 4, 642, 024	6,606,623 5,193,198
Incandescent lamp bulbs and glass tubing for the manufacture of incandescent lamps, vials and ampoules and glass tubing, n.o.p., in straight			6.4
lengths of not less than three feet	\$	2,803,406	2,764,778
Glass shades or globes, opal and illuminating glassware, n.o.p.	\$	155,842	177, 510
Lenses, glass, n.o.p. Fresnel type lenses, sections and globes, of glass	\$	503, 009 129, 465	465,452 138,737
Hollow shapes of glass and of plastics, moulded, for the manufacture of electric light fixtures	\$	2, 190, 387	2,457,993
High thermal shock-resisting glassware		5, 865, 126	6,400,707
			19-51
AND REAL PROPERTY AND ADDRESS OF THE PARTY AND			10 1
lass, stained, omamental and silvered:			
Ornamental, figured and enamelled coloured glass and memorial or other		050 010	151 000
ornamental window glass	\$	259, 812	171,369
glass	\$	982,216	884, 458
Stained or ornamental glass windows Silvered glass, bevelled or not, and framed or not, n.o.p.	\$	165, 248 1, 808, 465	263,649 1,791,721
VALUE US Printings Blackwillian of the Union Franchise We.	Part of	- District	
ther glass and glassware:			
Glass balls or marbles for the manufacture of glass fibres of glass yarn Articles of glass, not plate or sheet, designed to be cut or mounted;	\$	467, 538	503.878
articles of glassware for the manufacture of receptacles made of, or			
electroplated with precious metals	\$	444, 429	413,790
refractors, for lighting systems	\$	358,526	348, 909
Beads, drops or other shapes of glass, for the manufacture of imitation pearls	\$	15, 301	45,484
Artificial eyes for human use and contact eye glasses or lenses	\$	56,542	71,035
Photographic dry plates	\$	231,710	199,745
lenses, n.o.p.	\$	1,100,440	1,409,496
Glass blocks Manufactures of glass, n.o.p.	\$	514,527 3,376,478	500,088 3,737,012
Glass wool or fibre glass	lb.	3,586,734	2,519,082
	\$	1,460,381	1,217,061
	4.4		ALC: NO
late, sheet and window glass:			
Sheet glass transparent, in rectangles, not over 34 oz. per sq. ft	sq. ft.	67, 174, 964	54.597,970
Sheet glass, transparent, in rectangles, over 34 oz. per sq. ft., and sheet	\$	5, 275, 248	4,509,252
glass transparent, n.o.p.	sq. ft.	12, 954, 515	12,227,247
Plate glass, not bevelled, in sheets or panes not exceeding 7 sq. ft.	\$	3,175,809	2,968,369
each, n.o.p.		1,195,102	659,666
Plate glass, not bevelled, in sheets or panes exceeding 7 sq. ft. each,	\$	495, 803	262,660
and not exceeding 25 sq. ft. each, n.o.p.		8,695,328	6,947,470
Plate glass, n.o.p.	sq. ft.	3,829,821 24,664,490	2,947,826 17,708,222
	\$	12,057,822	8, 458, 968
Laminated glass, sheet or plate, and manufactures, n.o.p	\$	324,408 628,768	281,498 720,179
Glass, cast, and sheet glass, n.o.p.	\$	96, 283	126,932
Insulating window units	No.	52,735 1,075,001	34, 707 717, 239

TABLE 13. Exports of Glass and Glass Products, 1959 and 1960

Item		1959	1960
common and colourless window glass so	q. ft.	7,921,079 873,919	6,830,828 706,998
able ware of glass	\$	12,526	6,979
enses of glass, rough or finished	\$	862, 643	998,645
lass bottles, empty	\$	82, 398	88, 954
ass and glassware, n.o.p.	\$	103, 026	94, 384

Directory of Firms: Glass and Glass Products Manufacturers, 1960

Name of firm	Location of p	ant	
	(E. 1 1 1 1 1 1 1 1 1		10
(a) Glass Manufacturers	A 300.0 300.0 To		
uebec:			
Canadian Pittsburgh Industries Ltd. Consumers Glass Company, Limited Dominion Glass Company, Limited Iroquois Glass Ltd.	300 Ste. Croix Blvd. Ville St. La 258 Second Ave., Ville St. Pierro 2376 Wellington St. Montreal Candiac		
ntario:	and the same of		
Consumers Glass Company, Limited	Etobicoke		
Dominion Glass Company, Limited	Hamilton		
Dominion Glass Company, Limited	Wallaceburg Scarborough		
Filkington Grass Manufacturing Co. Lite,	Scarbolodkii		
lberta:	A SET SEE		
Altaglass	Medicine Hat		
Dominion Glass Company, Limited	Redcliff		
Peace River Glass Company Prairie Stucco Supplies Ltd.*	Fort Saskatchewan South Edmonton		
	South Exhibition		
(h) Class Designation Manufactures			
(b) Glass Products Manufacturers	4 44		
uebec:	E E E E		
Acme Glass Company Limited, The	1311 Bonaventure St., Montreal		
Belgian Glass Works, Reg'd	822-2E Ave., Pointe-aux-Trembl	es	
Canadian Plate Glass and Mirror Company Reg'd	715 St. Maurice St., Montreal 186 St. Paul St., Quebec, P.Q.		
Columbia Frame Inc.	636 St. Paul St. W., Montreal		
Consolidated, Glass Industries Ltd.	2270-43rd Ave., Lachine		
Crystal Glass and Plastics Ltd Technical Glass Div	708 Walnut St., Montreal		
Despres Glass Co., J.R.	10130 Lille, Montreal 1493 Laurier Est., Montreal		
Dugal Auto Glass	969 Rue Rachel Est., Montreal		
Franklin Glass and Paint Co.	1135 Rue Taillon, Quebec		
Glass Hall Co., Ltd. Insulation Manufacturers & Processors Ltd.	6832 Gamier, Montreal 75 Stinson Blvd., St. Laurent		
Lafayene Glass Co.	2165 Rue Parthenais, Montreal		
La Vitrerie Moderne	535 St. Germain, Quebec		
Magog Glass Co. Leclair Enr'g, G.	Magog 179 Est., Ave. Laurier, Montreal		
DUCAGAI CAIL E. C			
Miroirs Laurier Enr'g.	Laurier Station		

[•] Do not actually make glass. Included in compilations of this industry in error, will be reclassified in 1961.

Directory of Firms: Glass and Glass Products Manufacturers, 1960 - Concluded

Name of firm	Location of plant
(b) Glass Products Manufacturers — Continued	
Quebec - Concluded:	
Phillips Cut Clara Ca T to	
Phillips Cut Glass Co. Ltd. Pion, Georges	
Star Glass Ltd.	4040 Namur St., Montreal
Stotter Glass Products Ltd.	2625 Albert St., Montreal
Villeray Glass Vitra Glass Ltée.	10865 Lajeunesse, Montreal
Vitrerie Bouchard Glass Inc.	6026 Hochelaga, Montreal 7640 Lajeunnesse St., Montreal
Vitrerie Canadienne Enr'g.	Champigny
Vitrerie Contrecoeur Enr'g.	Contre coeur
Vitrerie Générale Enr'g. Walker Glass Co. Ltd.	Daveluyville 5972 Second Ave. Rosemount
White Mirror and Glass Company	4081 St. Urbain St., Montreal
Winter and Company	234 Laurier Ave. W., Montreal
Ontario:	
Acadian Glass and Mirror Co.	5 Roslyn Ave., Toronto
Armalux Glass Industries Limited	17 Racine Rd Revdala
Bath and Sons Glass Mirrors and Manufacturing Ltd. Beach Neon	1388 Main St. E., Hamilton 54 Alice Crescent, Scarborough
Belgium Mirror and Glass Co.	407 Dundas St. W., Toronto
Bennett Glass Co. Ltd., The	1004 Walker Rd., Windson
Canadian Pittsburg Industries Ltd. Central Ornamental Glass Co.	59 York St., London
Clapperton and Sons Ltd.	83 McCaul St., Toronto 23 River St., Toronto
Colonial Art Glass and Windows	1101 Cladstone Ave Carrier
Corning Glass Works of Canada Ltd. Cutler Brands Limited	135 Vanderhoof Ave., Leaside
De Paoli Industries	126 Geary St., Toronto 542 Brant St., Windsor
Duplate Canada Ltd.	Oakville
Duplate Canada Ltd.	Oshawa
Duplate Canada Ltd. Emerald Glass Company	Windsor 544 Rogers Rd., Toronto
Excelsior Glass Company, Limited	127 Rivalda Rd Weston
Flex-o-Lite of Canada, Ltd.	15 Ontario St St Thomas
Glass Cell Fabricators Ltd. Holliday Flint Glass Works of Toronto	25 Ingram Drive, Toronto
Holophane Co. Ltd., The	418 Kinling Ave S Etobicoke
Hughes and Sons "Corn flower" Ltd., W.J.	102 Tycos Drive, Toronto
Jewell and Son, Ernest C.	374 Montrose Ave., Toronto
Johns Glass Co. Ltd., The O.H. Lipman Sterling Limited	219 Broadview Ave., Toronto 191 George St., Toronto
London Glass and Mirror Co.	679 York St., London
Lloyds Glass Co.	180 King St. W., Hamilton
Luxfer Prism Co., Ltd. McCausland, Ltd., Robert	162 Parliament St., Toronto
McConnell Mirrors and Glass	214 John St., Toronto 164 St. Patrick, Stratford
Modern Mirror and Glass Co.	206 Main St Toronto
Monogram Glass Co. Of Canada, Ltd.	7 Staffordshire Place, Toronto
North American Glass Industries Ltd. Pilkington Brothers (Canada) Ltd.	18 Rivalda Rd., Weston 111 Millward Rd., Leaside
Precision Glasscraft Co.	121 Judge Rd., Toronto
Pringle and London	162 Parliament St. Toronto
Queen City Glass Company, Limited	243 Victoria St., Toronto
Richards Glass Co. Ltd., The Sealite-Glass Limited	1293 Caledonia Rd Toronto
Service Glass and Mirror Ltd.	1185 Rose Lawn Ave., Toronto
Sherriff Limited, R.G.	216 Adelaide St. W., Toronto
Smith, Co. Ltd., Kenneth M. Smits and Ramsdale	30 Industrial St., Leaside 442 Sherbourne St., Toronto
Strathroy Glass Company	56 Canaan St., Strathroy
Thermo-Rite Manufacturing Co.	134 Hartzel Rd. St. Catharines
Tooke Gerald E. Toronto Glass and Mirror Co.	186 Dupont St., Toronto
A CANDILLO GIROS BILL MILITUI CU.	67 Racine Rd., Rexdale
Versteeg Studios Ltd., Charles X. L. Glass Company	Carleton Place

Directory of Firms: Glass and Glass Products Manufacturers, 1960 - Concluded

Name of firm	Location of plant
(b) Glass Products Manufacturers — Concluded	
Manitoba:	
Brooker Window Ltd. Consolidated Plate Glass (Western) Ltd. Paramount Glass Limited Seal-Dow Ltd. Westcan Industries Ltd.	602 Desmeurons St., St. Boniface 450 Deschambault St., St. Boniface 362 Panet Rd., St. Boniface Fennell and Somerville, Fort Garry 309 Elgin Ave., Winnipeg
Saskatchewan:	
Solarpane Manufacturing Co. Ltd.	500 10th Ave. E., Regina
Alberta:	
Continental Glass Mfg. Co. Para Glass Ltd.	520-35th Ave. N.E., Calgary 1632-42nd Ave. S.E., Calgary
British Columbia:	
Busy B's Glass Consolidated Twin Seal Industries Ltd. Fraser Glass Works Hastings Glass and Mirrors Viric Manufacturing Ltd. Wallin's Glass Co., Ltd.	Campbell River Granville Island 2132 Granville St., Vancouver 1146 E. Cordova St., Vancouver 2628 Yew St., Vancouver 1069 S.W. Marine Dr., Vancouver

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