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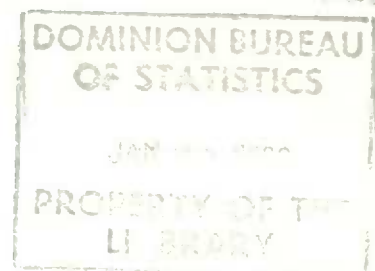


CANADA

SCIENTIFIC AND PROFESSIONAL EQUIPMENT MANUFACTURERS, 1960

First Issue — previously part of
47-205 - The Miscellaneous Industries

ANNUAL CENSUS
OF MANUFACTURES



DOMINION BUREAU OF STATISTICS
Industry and Merchandising Division

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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- * revised figures.
- n.e.s. not elsewhere specified.

EXPLANATORY NOTES

This report is one in a series of about 140 publications which present the results of the 1960 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. 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.¹

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

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*.

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.

SCIENTIFIC AND PROFESSIONAL EQUIPMENT MANUFACTURERS, 1960

SECTION 1: SCIENTIFIC AND PROFESSIONAL EQUIPMENT MANUFACTURERS

For the 1960 survey, the Bureau implemented a revised Standard Industrial Classification. One of the major effects of this change within the Miscellaneous Manufacturing Industries Group was to establish the Scientific and Professional Equipment Manufacturers as a separate industrial sub-group. In turn, the firms included in this sub-group were classified into five separate industries, of which four had been recognized for varying years prior to the 1960 survey while the fifth was classed as a separate industry for the first time in the revised classification.

The four industries previously recognized are as follows:

- (a) Clock and Watch Manufacturers, collected separately since 1951.
- (b) Ophthalmic Goods Manufacturers, collected separately since 1956.
- (c) Orthopaedic and Surgical Appliance Manufacturers, collected separately since 1956.
- (d) Instrument and Related Products Manufacturers, collected separately since 1956.

The new industry separately identified in 1960 is known as Dental Laboratories.

For the survey period 1947 to 1950, inclusive, the industrial sub-group known as the Scientific

and Professional Equipment Industry included the four separate industries shown under (a) to (d), inclusive, above; in 1951, the Clock and Watch industry was broken out and surveyed separately; and, in 1956, the Ophthalmic and Orthopaedic Industries were also broken out and surveyed separately. For the same survey year, i.e. 1956, the name of the industry to which the remaining firms were classified was changed from the Scientific and Professional Equipment Industry to the Instrument and Related Products Industry.

Taking all the above changes into consideration, it has been possible to prepare a table (Table 1 below) showing the combined Principal Statistics for those four industries for the years 1947 to 1959, inclusive, on the previous classification basis. This table also shows the same combined totals on the revised basis for the years 1957 to 1960, inclusive, and it should be noted that the 1960 figures include those of the Dental Laboratories, initially surveyed in this year.

The other four tables of this introductory section show the 1960 Principal Statistics by individual industry (Table 2); the 1960 inventories by province (Table 3); the same inventories by individual industry (Table 4); and the 1960 capital and repair expenditures (Table 5).

TABLE 1. Principal Statistics, Scientific and Professional Equipment Manufacturers, 1947-60

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Gross value of production ¹
Basis: Standard Industrial Classification in use prior to 1960							
	number				dollars		
1947.....	71	3,923	7,440,830	221,373	9,118,803	12,245,656	21,585,832
1948.....	81	3,791	8,666,159	246,218	10,604,599	15,657,407	26,508,224
1949.....	91	4,781	10,984,607	289,153	13,895,560	19,003,380	33,188,093
1950.....	97	4,810	11,842,620	297,097	13,378,949	17,980,249	31,656,295
1951.....	129	5,359	15,027,003	380,942	19,928,685	27,278,123	47,587,750
1952.....	147	6,428	19,481,255	411,073	20,717,247	33,899,089 ²	55,027,409
1953.....	162	7,832	25,606,186	467,774	29,113,797	44,116,710 ²	73,698,281
1954.....	174	7,861	25,891,481	573,677	28,935,449	44,203,367	71,982,037
1955.....	186	7,621	26,458,706	621,784	29,816,953	47,095,037	77,522,592
1956.....	179	8,082	29,283,074	684,268	36,915,398	56,916,192	92,509,643
1957.....	187	8,800	33,288,459	826,892	41,407,897	65,044,673	105,390,372
1958.....	195	9,459	38,353,011	833,220	53,686,752	63,464,953	117,050,174
1959.....	190	9,456	39,263,631	903,537	54,669,109	67,660,276	121,713,414
Basis: Standard Industrial Classification revised 1960							
	number				dollars		
1957.....	189	8,854	33,448,460	829,974	41,886,858	..	106,063,316
1958.....	198	9,529	38,572,327	840,209	54,176,732	..	117,776,906
1959.....	194	9,535	39,545,793	911,811	55,505,447	..	122,891,577
1960							
Newfoundland.....	1	15	39,276	1,193	22,046	46,497	69,736
Prince Edward Island.....	3						
Nova Scotia.....	16	69	225,398	5,004	95,759	405,709	506,430
New Brunswick.....	18	40	157,785	4,464	82,644	246,154	333,272
Quebec.....	207	2,569	10,539,714	166,556	16,814,522	14,480,596	30,597,947
Ontario.....	272	8,182	35,425,126	797,831	44,606,234	59,927,265	104,368,056
Manitoba.....	40	198	716,325	11,466	543,523	1,019,772	1,550,187
Saskatchewan.....	18	64	297,516	3,924	116,179	390,962	510,865
Alberta.....	32	152	573,541	11,128	353,296	775,671	1,171,584
British Columbia.....	94	278	1,080,442	19,971	409,111	1,452,395	1,875,747
Canada.....	701	11,567	49,055,123	1,021,537	63,043,314	78,745,021	140,983,824

¹ Commencing with 1952 "Gross value of production" was replaced by "Value of factory shipments".

² Because of insufficient inventory data in 1952 and 1953, these figures have been calculated from value of factory shipments and are, therefore, only approximations to true "Value added by manufacture".

Note: Profits or losses cannot be estimated from Census figures as no data are collected for certain expense items, such as interest, rent, depreciation, taxes, insurance, advertising etc.

TABLE 2. Principal Statistics by Industry, 1960

Industry	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number		dollars				
Clock and watch manufacturers	34	1,050	4,002,357	58,004	8,173,736	8,318,228	16,128,200
Dental laboratories	499	1,720	6,736,498	106,120	2,690,692	9,338,549	12,114,820
Instrument and related products manufacturers	87	7,353	33,619,637	739,593	48,158,927	55,796,752	103,375,018
Ophthalmic goods manufacturers	44	1,098	3,602,506	89,684	3,127,872	3,734,097	6,890,592
Orthopaedic and surgical appliance manufacturers	37	346	1,094,125	28,136	892,087	1,557,395	2,475,194
Totals.....	701	11,567	49,055,123	1,021,537	63,043,314	78,745,021	140,983,824

TABLE 3. Inventories,¹ by Provinces, 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:²				
Newfoundland	}	2,943	—	2,943
Prince Edward Island				
Nova Scotia				
New Brunswick				
Quebec		1,993,580	986,018	6,021,801
Ontario		9,206,579	6,451,017	24,462,910
Manitoba		10,049	63,797	163,384
Saskatchewan		2,100	—	19,360
Alberta		31,626	48,930	124,841
British Columbia		2,402	323	65,938
Canada	12,144,549	11,246,725	7,550,085	30,941,359
Closing:				
Newfoundland	}	3,526	—	3,526
Prince Edward Island				
Nova Scotia				
New Brunswick				
Quebec		2,799,767	1,043,558	8,014,889
Ontario		9,032,959	7,587,911	25,304,022
Manitoba		11,963	86,457	194,278
Saskatchewan		2,300	—	21,472
Alberta		17,613	31,454	99,375
British Columbia		3,857	4,598	86,925
Canada	13,169,225	11,868,880	8,753,978	33,812,083

¹ Book value of all manufacturing inventories held at plant and plant warehouses.² The opening inventory for 1960 differs from the closing inventory for 1959 because of the receipt of revised data, the inclusion of new firms and the removal of figures for firms which did not operate during 1960.

TABLE 4. Inventories,¹ by Industry, 1960

Industry	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening: ²				
Clock and watch manufacturers	1,621,434	725,729	2,472,125	4,819,288
Dental laboratories	438,188	50,471	'	488,659
Instrument and related products manufacturers	8,641,378	9,961,488	4,196,632	22,799,498
Ophthalmic goods manufacturers	1,174,948	424,592	673,799	2,273,339
Orthopaedic and surgical appliance manufacturers	268,601	84,445	207,529	560,575
Totals	12,144,549	11,246,725	7,550,085	30,941,359
Closing:				
Clock and watch manufacturers	1,726,809	864,236	2,755,386	5,346,431
Dental laboratories	474,225	71,012	'	545,237
Instrument and related products manufacturers	9,329,671	10,331,783	5,146,591	24,808,045
Ophthalmic goods manufacturers	1,391,960	525,459	633,993	2,551,412
Orthopaedic and surgical appliance manufacturers	266,560	76,390	218,008	560,958
Totals	13,189,225	11,868,880	8,753,978	33,812,083

¹ Book value of all manufacturing inventories held at plant and plant warehouses.

² The opening inventory for 1960 differs from the closing inventory for 1959 because of the receipt of revised data, the inclusion of new firms and the removal of figures for firms which did not operate during 1960.

³ Included with goods in process.

TABLE 5. Capital, Repair and Maintenance Expenditures, 1960

Year	Capital expenditures			Repair and maintenance expenditures			Capital, repair and maintenance expenditures		
	Con-struction	Machinery and equipment	Sub-total	Con-struction	Machinery and equipment	Sub-total	Con-struction	Machinery and equipment	Total
thousands of dollars									
1960	1,196	2,542	3,738	847	1,214	2,061	2,043	3,756	5,799

SECTION 2: CLOCK AND WATCH MANUFACTURERS, 1960

Despite the implementation of the revised Standard Industrial Classification for the 1960 survey, outlined in detail in Section 1 of this report, there has been no change made in the composition of this industry (apart from a slight one in name) as a scrutiny of the Principal Statistics given in Table 6 below will reveal. This industry continues to be defined as comprising those "establishments primarily engaged in manufacturing of clocks and watches, including materials and parts for the same". It includes plants whose primary activity is the assembling of clocks and watches from purchased movements and from watch cases of both their own and other manufacture. However, the purchase of complete watches and the attachment of straps or bands thereto is not considered to be a manufacturing activity.

As outlined in Section 1 of this report, this industry has been surveyed separately since 1951 and the Principal Statistics for the period 1951 to 1960, inclusive, are given in Table 6 below. This table also shows that the number of establishments dropped from 37 in 1959 to 34 in 1960 whereas the total value of industry shipments climbed from \$15,739,349 in the former year to \$16,128,200 in the year under review, an increase of 2.5 per cent. The industry employed 1,050 employees in 1960 with a total payroll of \$4,002,357 as compared

to 999 employees receiving \$3,725,475 in 1959, an increase of 5.1 per cent in employment and of 7.4 per cent in salaries and wages. Materials and supplies used cost \$8,173,736 in 1960 compared to \$8,018,809 the year before.

The manufacture of clocks, watches and watch cases is not confined exclusively to firms classified to this industry and the shipments of these articles by all industries for the years 1959 and 1960 are shown in Table 8. The details of the shipments of these products by the industry itself have been withheld in order to publish this more complete information.

Tables 9 and 10 of this section cover imports and exports of clocks, watches etc. and, as in the case of Tables 6 and 8, give information already published on this industry. On the other hand, Table 7, and Tables 11 to 16, inclusive, of this section present data on this industry not published separately before. Particular attention is drawn to Tables 13, 14 and 15, which give a breakdown of the Principal Statistics of this industry by different economic groupings.

A list of the firms classified to this industry for the 1960 survey will be found at the end of this section.

TABLE 6. Principal Statistics, Clock and Watch Manufacturers, 1951-60
Basis: Standard Industrial Classification in use prior to, and in, 1960 (no change in 1960)

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Gross value of production ¹
	number				dollars		
1951	29	1,185	2,991,396	35,174	5,777,790	4,778,441	10,591,405
1952	31	1,032	2,853,417	33,103	5,162,619	5,839,870 ²	11,035,592
1953	34	1,190	3,498,817	38,180	7,103,175	5,528,274 ²	12,669,629
1954	35	1,106	3,372,014	50,446	6,110,485	6,133,062	12,238,697
1955	35	1,107	3,501,645	52,343	7,027,734	6,945,639	14,299,124
1956	33	1,119	3,638,944	56,180	7,825,135	7,953,540	15,744,711
1957	35	1,073	3,743,577	56,937	8,813,098	8,588,285	17,086,790
1958	37	1,069	3,860,418	58,314	8,214,018	7,395,533	15,784,093
1959							
Quebec	18	200	771,631	12,432	2,265,485	1,519,633	3,804,332
Ontario and Manitoba	19 ³	799	2,953,844	44,371	5,753,324	6,018,075	11,935,017
Canada	37	999	3,725,475	56,803	8,018,809	7,537,708	15,739,349
1960							
Quebec	15	192	740,939	9,640	2,071,672	1,222,739	3,279,221
Ontario and Manitoba	19 ³	858	3,261,418	48,364	6,102,064	7,095,489	12,848,979
Canada	34	1,050	4,002,357	58,004	8,183,736	8,318,228	16,128,200

¹ Commencing with 1952 "Value of factory shipments" has been collected instead of "Gross value of production".

² Because of insufficient inventory data in 1952 and 1953, these figures have been calculated from value of factory shipments and are therefore, only approximations to true "Value added by manufacture".

³ Manitoba 3.

TABLE 7. Inventories,¹ 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening: ²				
Quebec	367,482	51,000	763,547	1,182,029
Ontario	1,236,436	669,940	1,669,739	3,576,115
Manitoba	17,516	4,789	38,839	61,144
Canada	1,621,434	725,729	2,472,125	4,819,288
Closing:				
Quebec	410,215	56,135	783,242	1,249,592
Ontario	1,299,868	803,698	1,915,641	4,019,207
Manitoba	16,726	4,403	56,503	77,632
Canada	1,726,809	864,236	2,755,386	5,346,431

¹ Book value of all manufacturing inventories held at plant and plant warehouses.

² The opening inventory for 1960 differs from the closing inventory for 1959 because of the inclusion of new firms and the removal of figures for firms which did not operate during 1960.

TABLE 8. Shipments of Clocks, Watches and Watch Cases by All Industries, 1959 and 1960

Products	1959		1960	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	No.	\$	No.	\$
Clocks, electric, kitchen	226,693	887,630	216,154	831,076
Clocks, electric, alarm	115,604	503,212	117,612	492,560
Clocks, electric, other	90,050	625,964	80,538	540,634
Clocks, not electric, mantel and wall types	7,453	39,641	7,501	49,091
Clocks, not electric, other types	675,807	1,761,112	695,189	1,838,571
Watches, wrist	759,729	9,599,501	819,566	9,442,425
Watches, other	457,894	866,477	636,829	1,565,624
Watch cases	400,542 ^r	864,259 ^r	579,739	1,211,080
Total value of shipments .....	...	15,147,796 ^r	...	15,971,061

TABLE 9. Imports of Clocks and Watches and Parts, 1959 and 1960

Import class	Commodities imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
	Clocks and parts:				
6135	Alarm clocks	577,385	901,670	632,623	944,967
6131	Other clocks	282,578	1,179,110	290,332	1,274,812
6132	Clock movements, clock cases and clockwork mechanisms .....	..	197,714	..	244,144
6133	Parts of clock movements or of clockwork mechanisms, finished or unfinished, not including plates .....	..	373,991	..	393,939
	Watches and parts:				
6127	Watches, over one jewel .....	..	1,354,341	..	1,590,534
6128	Watches, one or no jewel .....	..	609,053	..	544,553
6136	Watch cases and parts thereof, finished or unfinished .....	..	1,312,342	..	1,405,068
6129	Watch actions, over one jewel .....	..	4,383,584	..	4,063,841
6130	Watch actions, one or no jewel .....	..	541,268	..	556,666
6138	Parts of watch movements, finished or unfinished .....	..	412,830	..	473,593
6134	Time recorders .....	..	183,050	..	238,241
	Total value of imports .....	...	11,448,953	...	11,730,358

¹ These data are published monthly in "Trade of Canada—Imports" (Catalogue No. 65-007), which also shows the details of shipments from individual countries.

TABLE 10. Exports of Clocks and Watches and Parts, 1959 and 1960

Export class	Commodities exported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
6410	Clocks and parts	75,400	382,768	89,021	527,030
6420	Watches and parts	231,088	651,780	209,593	580,688
	Total value of exports .....	...	1,034,548	...	1,107,718

¹ These data are published monthly in "Trade of Canada—Exports," (Catalogue No. 65-004), which also shows details of shipments to individual countries.

TABLE 11. Employees and their Earnings, by Provinces, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Quebec	44	37	66	53	200	364,105	407,526	771,631
Ontario	115	86	236	350	787	1,016,769	1,904,938	2,921,707
Manitoba	5	2	5	—	12	22,086	10,051	32,137
Canada	164	125	307	403	999	1,402,960	2,322,515	3,725,475
1960								
Quebec	44	39	62	47	192	428,898	312,041	740,939
Ontario	117	91	250	387	845	1,107,830	2,115,205	3,223,035
Manitoba	6	2	5	—	13	25,280	13,103	38,383
Canada	167	132	317	434	1,050	1,562,008	2,440,349	4,002,357

TABLE 12. Production Workers, by Months, 1959 and 1960

Month	1959		1960	
	Male	Female	Male	Female
January	316	424	302	431
February	313	414	305	444
March	305	407	305	449
April	303	390	303	436
May	303	386	315	428
June	304	394	320	430
July	308	390	324	431
August	309	403	324	433
September	312	422	322	441
October	298	409	318	431
November	300	406	322	433
December	291	403	317	424
Monthly average¹	305	404	315	434

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over. For establishments reporting value of shipments between \$100,000 and \$500,000, quarterly figures only were collected and the employment figure reported at the end of each quarter was used as the monthly employment figure for that quarter. For establishments reporting value of shipments of less than \$100,000 no data on the number of workers were collected. The average was estimated by using the change in value of shipments to arrive at the value of the payroll which was then used in conjunction with estimated average earnings to arrive at the number of workers. This estimated number of workers was then included in each month's total.

TABLE 13. Principal Statistics, Grouped by Shipment Size, 1959 and 1960

Shipment size	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			
1959						
Under \$10,000	4	3	4,288	184	7,827	16,377
\$ 10,000 to \$ 24,999	3	6	16,584	198	21,121	39,129
25,000 " 49,999	3	10	23,102	686	98,762	130,023
50,000 " 99,999	4	29	79,491	3,654	145,304	271,737
100,000 " 199,999	7	51	189,432	2,595	707,901	952,842
200,000 " 499,999	9	136	466,145	7,275	1,653,098	2,710,954
500,000 " 999,999	3	88	396,902	3,152	1,336,439	2,431,969
1,000,000 and over	4	676	2,549,531	39,059	4,048,357	9,186,318
Totals	37	999	3,725,475	56,803	8,018,809	15,739,349
1960						
Under \$10,000	3	4	10,043	148	6,130	18,617
\$ 10,000 to \$ 24,999	4	11	29,062	2,362	44,988	75,895
25,000 " 49,999		24	84,613	1,784	148,309	276,915
50,000 " 99,999	7	48	191,565	3,080	703,369	974,680
100,000 " 199,999	8	137	463,146	3,281	1,345,166	2,335,743
200,000 " 499,999	5	240	754,282	6,857	2,279,263	3,956,357
500,000 " 999,999	3	586	2,469,646	40,492	3,646,511	8,489,998
1,000,000 and over						
Totals	34	1,050	4,002,357	58,004	8,173,736	16,128,200

TABLE 14. Principal Statistics, by Type of Ownership, 1959 and 1960

Type of ownership	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
1959						
Individual ownership	2	} 12	32,477	870	145,004	220,860
Partnership	1					
Incorporated company	34	987	3,692,998	55,933	7,873,805	15,518,489
Totals	37	999	3,725,475	56,803	8,018,809	15,739,349
1960						
Individual ownership	2	} 12	36,828	765	99,996	158,259
Partnership	1					
Incorporated company	31	1,038	3,965,529	57,239	8,073,740	15,969,941
Totals	34	1,050	4,002,357	58,004	8,173,736	16,128,200

TABLE 15. Principal Statistics, by Number of Employees per Establishment, 1959 and 1960

Employee size	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Selling value of factory shipments
	number		dollars			
1959						
Under 5 employees	12	20	57,230	1,810	329,123	570,991
5 to 14 employees	13	106	344,976	7,293	1,182,701	1,805,425
15 " 49 "	9	241	978,287	8,641	3,772,930	6,452,928
50 and over	3	632	2,344,982	39,059	2,734,055	6,910,005
Totals	37	999	3,725,475	56,803	8,018,809	15,739,349
1960						
Under 5 employees	10	25	76,170	3,394	295,134	551,154
5 to 14 employees	12	105	379,040	4,076	1,236,279	1,929,411
15 " 49 "	8	230	817,837	6,973	2,472,549	4,167,755
50 and over	4	690	2,729,310	43,561	4,169,774	9,479,880
Totals	34	1,050	4,002,357	58,004	8,173,736	16,128,200

TABLE 16. Consumption of Fuel and Electricity, 1959 and 1960

Kind	1959		1960	
	Quantity	Cost at plant	Quantity	Cost at plant
		\$		\$
1. Establishments reporting commodity detail: ¹				
Bituminous coal:				
(a) From Canadian mines	—	—	—	—
(b) Imported	1,186	15,162	1,140	14,607
Anthracite coal	—	—	—	—
Gasoline (including gasoline used in cars and trucks	13,123	5,834	14,344	6,449
Fuel oil including kerosene or coal oil	11,925	2,218	25,084	3,507
Gas (a) Liquefied petroleum gases	—	—	—	—
(b) Natural gas	507	1,107	655	1,303
Electricity purchased	1,379,347	20,278	1,558,073	21,969
2. Establishments reporting group detail: ²				
Cost of fuel .....	...	6,278	...	3,703
Cost of electricity .....	...	3,705	...	3,602
3. Estimate for establishments for which no data were collected: ³				
Cost of fuel and electricity .....	...	2,221	...	2,864
4. All establishments:				
Total cost of fuel and electricity .....	...	56,803	...	58,004

¹ Establishments generally reporting value of shipments of \$500,000 and over.² Establishments generally reporting value of shipments between \$100,000. and \$500,000.³ Establishments generally reporting value of shipments of less than \$100,000.

Clock and Watch Manufacturers, 1960

Name of firm	Address
Quebec:	
Canadian Neon-Ray Clock Co., Ltd.	371 Dowd St., Montreal 1
Canava American Watch Factory, Ltd.	764 Davaar Ave., Montreal 8 Plant - Quebec City
Hatch & Co., Ltd.	425 East Grand Allée, Quebec 4
Hirshorn, William	407 McGill St., Montreal 1
Hoffer, Paul, Limited	637 Craig St., W., Montreal 3
Lebern Jewellery Co., Ltd.	407 McGill St., Montreal 1
Liberty Watch Case Co., Ltd.	7115 St. Urbain St., Montreal 10
Longines-Wittnauer Co. of Canada, Ltd.	1255 Phillips Square, Montreal 2
Marathon Watch Co.	407 McGill St., Montreal
Mosel Sales Ltd.	1108 St. Lawrence Blvd., Montreal 1
Myer's & Co., S.P., Ltd.	685 St. James St. W., Montreal 3
Perfect Manufacturing & Supplies Corp., Ltd.	637 Craig St. W., Montreal 3
Platinor Watch Case Mfg., Co.	400 Ontario St. W., Montreal 2
Rowi, Ltd.	1276 St. Urbain St., Montreal 18
Zinsstag, H., Limited	699 St. Maurice St., Montreal 3
Ontario:	
Bulova Watch Company, Limited	372 Bay St., Toronto 1
Consolidated Watch Importers, Ltd.	Suite 602, Federal Bldg., 85 Richmond St. W., Toronto 1
Eaton Co., Ltd., The T., (Clocks and Watches, Toronto)	Box 566, Adelaide St., P.O., Toronto 1
Elgin Watch Co., Ltd.	111 Richmond St. W., Toronto 1
Forestville Clock Co., Ltd.	266 King St. W., Toronto 2B
Gruen Watch of Canada, Limited	58 Connie St. W., Toronto 15
Halimark Accessories (Canada) Ltd.	121 Sherbourne St., Toronto
Hamilton Watch Company of Canada, Ltd.	86 Wellington St. W., Toronto 1
Ingraham Canadian Clock Co., Ltd.	Grand Avenue, Toronto 18
Lux Time (Canada) Ltd.	1064 S. Service Road, Oakville
Rolex Watch Company of Canada, Limited	80 Richmond St. W., Toronto 1
Simpson-Sears Limited	108 Mutual St., Toronto 2
Snider Clock Mfg., Co., Limited	466 Bathurst St., Toronto 2B
Timex of Canada, Limited	1300 Jane St., Toronto 15
Trans-Canada Precision Instruments, Limited	62 Richmond St., W., Toronto 1
Westclox Canada, Limited	Hunter St. E., Box 239, Peterborough
Manitoba:	
Gendis Manufacturing, Ltd.	791 Notre Dame Avenue, Winnipeg 3
Simo Watch Co., The	437 Main St., Winnipeg 2
Unruh, H., & Co., Jewellers	169 Kelvin St., Winnipeg 5

SECTION 3: DENTAL LABORATORIES, 1960

As outlined in Section 1 of this report, this industry is being surveyed for the first time in 1960 as a result of the implementation of the revised Standard Industrial Classification. This industry is defined as comprising "establishments primarily engaged in making dentures, bridges, inlays and other dental restorations". It should be noted that it does not include dental laboratories operated on a non-commercial basis, i.e. by a government body or as part of the dental faculty, or those operated as a subsidiary activity by dentists.

Since the 1960 survey was the first one, no detailed information was gathered as to the materials and supplies used or as to the breakdown of the sales by these laboratories. It is known that the laboratories do not keep many finished goods on hand and therefore the inventories of these goods were included with those of goods in process.

The tables included in this section, 17 to 25, inclusive, show information for the year 1960 only. In view of the lack of comparable data for the survey year 1959, detailed specific comments cannot be made upon them and it is suggested that the breakdowns of the Principal Statistics by economic groupings, given in Tables 22 to 24, inclusive, may prove of particular interest. However, it should be pointed out that, as shown in Table 23, most of these laboratories are operated on an individual ownership or partnership basis. The working owners or partners of these establishments are included under "Supervising and office employees" in Table 20 and account for the relatively large number of such employees when compared to the "Technical employees" in the same table.

A list of the establishments classified to this industry for the 1960 survey will be found at the end of this section.

TABLE 17. Principal Statistics, Dental Laboratories, 1960

Basis: Standard Industrial Classification revised 1960

Province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of shipments
	number				dollars		
Newfoundland.....	1	15	39,276	1,193	22,046	46,497	69,736
Prince Edward Island.....	3						
Nova Scotia.....	14	46	139,803	4,246	70,844	194,892	269,940
New Brunswick.....	14	23	101,298	2,444	35,978	132,603	171,035
Quebec.....	153	375	1,426,730	28,836	643,011	1,918,443	2,571,306
Ontario.....	158	705	2,815,661	37,126	1,116,620	4,059,211	5,212,721
Manitoba.....	29	133	513,646	5,965	170,150	692,871	868,684
Saskatchewan.....	18	64	297,516	3,924	116,179	390,962	510,865
Alberta.....	24	103	402,712	5,868	159,562	523,630	689,128
British Columbia.....	85	256	999,856	16,518	356,302	1,379,440	1,751,405
Canada.....	499	1,720	6,736,498	106,120	2,690,692	9,338,549	12,114,820

TABLE 18. Inventories,¹ 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	dollars			
Opening:				
Newfoundland.....	2,943	—		2,943
Prince Edward Island.....				
Nova Scotia.....	13,579	344		13,923
New Brunswick.....	17,439	45		17,484
Quebec.....	141,106	20,796		161,902
Ontario.....	142,065	19,132		161,197
Manitoba.....	34,358	2,873		37,231
Saskatchewan.....	17,260	2,100		19,360
Alberta.....	19,099	2,816		21,915
British Columbia.....	50,339	2,365		52,704
Canada.....	438,188	50,471		488,659

See footnotes at end of table.

TABLE 18. Inventories,¹ 1960 — Concluded

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Closing:				
Newfoundland.....	} 3,526	—		3,526
Prince Edward Island.....				
Nova Scotia.....	16,144	386		16,530
New Brunswick.....	17,870	35		17,905
Quebec.....	139,250	39,780		179,030
Ontario.....	156,192	19,368		175,560
Manitoba.....	35,279	3,175		38,454
Saskatchewan.....	19,172	2,300		21,472
Alberta.....	22,894	2,748		25,642
British Columbia.....	63,898	3,220		67,118
Canada.....	474,225	71,012		545,237

¹ Book value of all manufacturing inventories held at plant and plant warehouses.² Included in "Goods in Process".

TABLE 19. Imports of Teeth, 1959 and 1960

Import class	Commodity imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
			\$		\$
7051	Teeth.....	...	1,325,486	...	1,710,180

¹ These data are published monthly in "Trade of Canada-Imports" (Catalogue No. 65-007) which also shows the details of shipments from individual countries.

TABLE 20. Employees and their Earnings by Provinces, 1960

Province	Employees					Earnings			
	Supervisory and office employees		Technical employees		Total	Supervisory and office employees	Technical employees	Total	
	Male	Female	Male	Female					
	number					dollars			
Newfoundland.....	}	11	3	—	1	15	37,681	1,595	39,276
Prince Edward Island.....									
Nova Scotia.....		18	1	20	7	46	73,379	56,424	139,803
New Brunswick.....		14	—	6	3	23	68,866	32,432	101,298
Quebec.....		177	9	186	3	375	855,066	571,664	1,426,730
Ontario.....		206	30	371	98	705	1,183,173	1,632,488	2,815,661
Manitoba.....		42	6	65	20	133	239,884	273,762	513,646
Saskatchewan.....		23	3	35	3	64	167,573	129,943	297,516
Alberta.....		37	4	40	22	103	231,735	170,977	402,712
British Columbia.....		102	13	120	21	256	544,499	455,357	999,856
Canada.....		630	69	843	178	1,720	3,401,856	3,334,642	6,736,498

TABLE 21. Technical Employees, by Months, 1960

Month	Male	Female
	number	
January	829	172
February	831	171
March	835	173
April	835	172
May	840	176
June	842	176
July	846	179
August	851	180
September	854	185
October	853	184
November	850	184
December	855	183
Monthly average	843	178

TABLE 22. Principal Statistics grouped by Shipment Size, 1960

Shipments size	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			
Under \$10,000	206	234	793,421	26,139	288,144	1,329,068
\$ 10,000 to \$ 24,999	172	357	1,489,282	26,734	594,446	2,624,721
25,000 " 49,999	76	359	1,418,575	17,731	668,906	2,594,397
50,000 " 99,999	31	295	1,113,429	12,230	440,904	2,051,897
100,000 " 199,999	9	174	649,916	9,000	251,620	1,150,592
200,000 and over	5	301	1,271,875	14,286	446,672	2,364,145
Totals	499	1,720	6,736,498	106,120	2,690,692	12,114,820

TABLE 23. Principal Statistics by Type of Ownership, 1960

Type of ownership	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			
Individual ownership	404	851	3,385,601	67,432	1,405,287	6,012,869
Partnership	56	240	948,084	9,883	402,781	1,681,669
Incorporated company	39	629	2,402,813	28,805	882,624	4,420,282
Totals	499	1,720	6,736,498	106,120	2,690,692	12,114,820

TABLE 24. Principal Statistics grouped by Number of Employees per Establishment, 1960

Employee size	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		
Under 5 employees	419	732	2,959,613	61,779	1,220,168	5,267,965
5 to 14 employees	67	518	1,941,070	20,755	809,015	3,475,746
15 and over	13	470	1,835,815	23,586	661,509	3,371,109
Totals	499	1,720	6,736,498	106,120	2,690,692	12,114,820

TABLE 25. Consumption of Fuel and Electricity, 1960

Kind	Cost at plant
	\$
Fuel (including coal, coke, gasoline, fuel oil, wood and gas)	45,671
Electricity (including service charge)	60,449
Total cost of fuel and electricity	106,120

Dental Laboratories, 1960

Name of firm	Address
Newfoundland:	
Associated Dental Laboratories	95 Argyle St., Halifax, N.S. Laboratory - 14 Holloway St., St. John's
Prince Edward Island:	
Bernard, Philip	Summerside
McDonald, P.A.	Charlottetown
McMillan, Fred L.	152½ Great George St., Charlottetown
Nova Scotia:	
Andrews, C.H.	309 Charlotte St., Sydney
Associated Dental Laboratories	95 Argyle St., Halifax
Atlantic Dental Laboratory	P.O. Box 211, 214 Gottingen St., Halifax 4
Beaton, C.C.	P.O. Box 1089, New Glasgow
Brownlee, Charles	Farquhar Bldg., 19 Blowers St., Halifax
Churchill, A. Earle	28 Brunswick, Yarmouth
Forsythe, R.G.	475 Main St., Box 810, Kentville
Grant, W.G.L.	4 Yorke St., Glace Bay
Horton, W.R., Ltd.	31 LaPlanche St., Amherst
Lunenburg Dental Laboratory	258 Lincoln St., Lunenburg
Modern Dental Laboratories, Ltd.	Leeds Bldg. Barrington St., P.O. Box 655, Halifax
Neil Dental Laboratory	85 Churchill St., Truro
Raymond Dental Laboratory, D.E.	78 Water St., Digby
Saulnier, G.W.	10 Wipple St., Yarmouth
New Brunswick:	
Arseneau, Harvey	175 Queen St., Moncton
Barton, Robert, G.	53 Mecklenburg St., Saint John
Box, Selwyn C.	361 Regent St., Fredericton
Draper, A. Myles	Bayview Court, R.R.1, Bathurst
Jones, Olin E.	Main St., Woodstock
Killam, Leonard V.	117 St. Francis St., Edmundston
Leger, Leonce B.	63½ King St., Saint John
MacLean, Frederick E.	105 Union St., Saint John
Marcoux, J.A.	Charlo Station
Melanson, Virgil L.	120 Queen St., Moncton
Millett, Ross A.L.	606 Albert St., Fredericton
Pariseau, Paul E.	St. Leonard
O'Connor, Frank J.	22 Dorchester St., Saint John
Richard, Ovide J.	P.O. Box 85, Richibucto
Quebec:	
Allaire, Camille	248 Hotel-Dieu Ave., Sorel
Allard, Hubert	3866 R. rue Claude, Verdun
Asselin, Armand	378, rue Baky, Joliette
Asselin, Gaston	5641, rue St-Hubert, Montreal
Aucclair, Alphonse	10357, rue Sacre-Coeur, Montreal
Auprix, Paul	43 Bergeron ouest, C.P. 295, Alma
Bastien, Roger	545 B, rue St-Jean, Drummondville
Beaudin, Alphonse	510, rue Magdalen Montreal 22
Beland, Paul	88 Maisonneuve St., Hull
Bellemare, Philippe	1784 des Erables, C.P. 205, Plessisville
Berard, Welley	4220, rue Ontario est, Montreal
Berthiaume, Claude	10655, rue St-Urbain, Montreal
Bessette, Mario	98 D'allaire Ave., C.P. 57, Rouyn
Blondin, Pierre	15718, Blvd. Gouin ouest, Ste. Genevieve
Boulanger, Gilles	4966, Blvd. Decarie, Suite A, Montreal
Bourgault, Roger	133, rue St-Andre, Granby
Briere, Jos. A.	422, rue Tamarac, Shawingan
Brien, Odilon	468, rue de la Chapelle, Québec
Bush, Denis	1414 Drummond St., Room 1122, Montreal
Cadieux, Rosaire	2176 de Villiers, Montreal 20
Cantin, Roland	184, rue Pinder est, Rouyn
Cere, Maurice	47, rue Dumas, Victoriaville
Chagnon, Lucien	880, rue Sacre-Coeur, St-Hyacinthe
Charbonneau, Georges	209, rue Ste. Catherine est, Montreal 18
Charlebois, Guy-Raymond	5790-8ième Avenue, Rosemont
Chasse, Lawrence	5757 Decelles Ave., Montreal
Clarke, K.W.	577 Main St., P.O. Box 172, Lachute
Cordeau, Roger	4765, rue Ste-Catherine est, Montreal 4
Dagenais, Armand	10755, Blvd. Olympia, Montreal
Depelteau & Peltier	4457 St-Denis St., Montreal
Deslongchamps, Armand	1785, rue Mullins, Montreal
Dion, Gérard	St-Georges, Cte. Beauce
Duchesne, Yvan	2970 Parkville, Montreal
Dumas, Roger	67, rue Frontenac, Lac Mégantic
Feldman, Abbey	3609 Park Avenue, Montreal
Ferland, O.P.	2435, rue Denonville, Montreal
Forgues, J. Gérard	54, rue Gordon, Sherbrooke
Fortier, Normand	5 A Gravel, Bagotville
Fortin, Roger	1297, rue Beauhien est, App 7, Montreal 35
Fortin, Roger	316, Notre Dame nord, Thetford Mines
Fournier, Paul Bernard	7030 de Lanaudière, Montreal 35
Frigon, Alphonse	541, Blème Avenue, Grand'Mère
Fugère, Paul A.	1626, rue Royale, Apt. 2, Trois-Rivières
Fuller, Herbert	1414 Drummond St. Room 307, Montreal 25
Gagnon, J. Arthur	253, rue Jacques Cartier, Chicoutimi
Gagnon, J. Lionel	230, rue Racine est, Chicoutimi
Gauthier, Jacques	6859, rue Chabot, Montreal

Dental Laboratories, 1960 - Continued

Name of firm	Address
Quebec - Continued:	
Gauvreau, Roland	1275 Charles Huot, Sillery
George C. Stevenson Dental Laboratory, Ltd.	Room 1015, 1538 Sherbrooke St., West, Montreal
Gervais, Georges	2534 Blvd. Pie IX, Apt. 1, Montreal
Gingras, Lucien	212, rue St. Jean, Quebec
Gonthier, Lucien	10370, rue Lille, Montreal-Nord
Gosselin, Onil	4379, rue St-Hubert, Montreal 34
Goudreault, Yvon	105, rue du Roi, Asbestos
Gouroff, Peter	760-3ième Avenue, Val d'Or
Griffiths, Reg'd, G.F.	4637 Sherbrooke St. W., Montreal 6
Guay, Paul	639-17ième Avenue, Lachine
Guenette Charles E.	5093, rue Delanauvière, Montreal
Guilbeault, Sylva	1625 A, rue Sherbrooke ouest, Montreal 25
Halle, Jean-Paul	1425, rue Notre-Dame, Trois Rivières
Hebert, L. J.	19, rue Cossette, Valleyfield
Hildred, William	321 Victoria Ave., Westmount, Montreal 6
Hugron, Paul-Emile	1960, rue Notre-Dame ouest, Montreal 3
Jackson, Douglas	Room 419, 1538 Sherbrooke St. W., Montreal
Johnson, William	Room 1006, 1538 Sherbrooke St. W., Montreal
Joly, Rodrigue	4803, rue de la Roche, Montreal
Jones, L.W.	1224 St. Catherine St. W., Montreal 25
Jones, Norman	411 Mount Stephen Ave., Westmount, Montreal 6
Jutras, J. Arthur	505 Mondor, St-Hyacinthe
Labadie, Armand	8644, rue Drolet, Montreal 11
Labbé & Labbé	10654, rue Christophe-Colomb, Montreal
Labelle, André	9223-16ième Ave., Ville-St-Michel, Montreal 38
Laboratoire Prince-Dugrè Foran, Ltée.	335 St. Georges, Trois Rivières
Lachapelle & Lachapelle	Room 924, 1538 Sherbrooke St., W., Montreal
Lafamme, Fernand	212, rue St-Jean, Quebec
Lafond & Fils, Inc.	1010, rue Ste-Catherine E., Montreal
Lalumière Jean-Paul	2645 Beaubien est, Montreal
Lambert, Jean	57, rue Wellington St., Hull
Lambert, Pierre	4311, avenue Old Orchard, Montreal
Lamothe, Paul-Emile	5971, rue Eadie, Montreal
Lancot, Camille	252, rue Beaubien est, Montreal
Langlois, Maurice	7 Boisclerc, Quebec
Laverdière, Henri	2645, rue Beaubien est, Appt. 1, Montreal
Laverdière, Raymond	38½ de la Fabrique, Quebec
Laverdière, Robert	892, rue Richelieu, Quebec
Lavigne, Roméo	244, rue Chapleau, Drummondville
Leblanc, Jean-Baptiste	6566, rue Beaulieu, Montreal
Leclair, Joffre	6239, rue Bordeaux, Montreal
Leduc, Roger	1396, rue St. Catherine Ouest, Montreal 25
Létourneau, Maurice	2117, rue Notre-Dame Ouest, Montreal
Longtin, Roméo	4064, rue St-Denis, Montreal
Longtin, Idola	Ste-Marguerite Station Co., Terrebonne
Lupien, Aimé	1077, rue St. Denis, Montreal
Maille, Raymond	8441, rue Berri, Montreal
Marchand, Pierre André	7237, ave. Chester, Montreal 29
Marchesseau, Jean-Paul	19 Place-du-Marché, St-Jean
Marleau, Sylva	1534, rue Crescent, Appt. 4, Montreal
Marois, Raymond	316, rue Montclair, Rosemere
Marois, Roger	172, ave. Tourangeau, Point-Viau
Marquis, Philippe	1203-4th Avenue, Quebec
Marston, W.D.	1429 Bishop St., Apt. 2, Montreal
Martell Dental Laboratory, Jos.	1390 Sherbrooke St., W., Room 13, Montreal 25
Materazzo, Leo	1599, rue Bélanger, Montreal
Maurais, Laurent	1804, rue Rachel est, Montreal
Miller, Leslie E.	1538 Sherbrooke St., W., Room 419, Montreal
Mont-petit, Jean Paul	873, rue Ste. Hélène, Jacques Cartier, Co. Chambly
Morency, Roland	630, rue D'Hiberville, Jonquière, Co. Lapointe
Morin, Jean-Jacques	4095, rue Papineau, Montreal
Morin, Paul-Emile	480, Blvd. St-Joseph est, Appt. 1, Montreal 34
Morisset, David	695, Blvd. Charest est, Quebec
Morissette, Léo	C.P. 520, Ste-Marie, Co. Beauce
Murant, Bert	1410 Guy St., Montreal
Nadeau, Paul-Emile	10405, rue London, Montreal nord
Nichol, Albert	320, rue Rioux, Sherbrooke
Nobert, Rosario	1575, rue Amherst, Montreal 24
Oulmet, Patrick	1452, est, rue Mt-Royal, Appt. 2, Montreal
Parent & Mongeau, Laboratoire (Enregistré)	5002 Parc Avenue, Montreal 8
Pepin, Arthur	176 Martin St., West, Magog
Petit, J. Emile	95, rue Brosseau, St-Jérôme
Poitras, Jean Guy	3093 Laurentian Blvd., St. Laurent, Montreal 9
Precourt, Jules	18, rue Lavole, Rimouski
Proulx, Raymond	44119, rue Garnier, Montreal
Provincial Laboratories, Ltd.	1414 Drummond St., Montreal
Regan, Eric James	5292 Queen Mary Road, Montreal 29
Renouf, Adrien	Room 7, 771, rue Burnside, Montreal 2
Richard, Eugene	1466, rue Sicard, Appt. 2, Montreal 4
Richard, G. Armand	464, rue Latourelle, Quebec
Richer, Aldege	25 Maisonneuve St., Hull
Rivest, Charles-Edouard	890-114ième rue, Shawinigan Falls
Robichaud, J. Léo	33 Ville Marie, Cté. Témiscamingue
Rochefort, Claude	C.P. 7, 60 Rouville, Baie Comeau, Cté. Saguenay
Roy, Gérard	99, rue Chénier, St-Eustache
Roy, Laboratoires L & R	1405, rue Bishop, Montreal
Roy, Roland	605, rue Prospect, Sherbrooke
Samson, Noel	6780-1ere Avenue, Rosemont, Montreal
Saucier, Aimé	94, rue Champlain, Valleyfield
Sauvé, Bernard	94, rue Wellington, Huntingdon
Sauvé, Roger	5545, rue Beaubien est, Appt. 1, Montreal
Smith, Hans	Room 452, 620 Cathcart St., Montreal

Dental Laboratories, 1960 - Continued

Name of firm	Address
Quebec - Concluded:	
Stanley, Henry Gordon	Room 603, 1414 Drummond St., Montreal 25
Steinberg, Saul A.	4456 St. Lawrence Blvd., Montreal
Therrien, Jacques	172, rue Ste-Catherine Ouest, Montreal
Thibault, J. Victor	C.P. 509, 669, rue Dollard, Buckingham
Trottier, Lucien	2127, rue Guy, Montreal
Turcot, Henri	2408, rue St-Zotique est, Montreal 36
Veniot, Martin E.	73-11th Avenue, Roxboro
Vezina, Louis Henri	443, Ouest Blvd. St-Joseph, Montreal 8
Vincent, Bruno Marc	1315, rue Beaulieu, St. Laurent, Montreal 9
Wax, Edward	Room 1, 1430 Bleury St., Montreal
Wiener, David N.	Room 235, 6650 Darlington Ave., Montreal
Wilson, Andrew	119 Blenheim Place, Westmount, Montreal 6
Ontario:	
Alexander Bros.	774 1/2 Yonge St., Toronto 5
Allen & Rollaston (Hamilton), Limited	Medical Arts Bldg., Hamilton
Allen & Rollaston (Ottawa), Limited	112 Lisgar St., Ottawa 4
Allen & Rollaston, Limited	9 Davenport Road, Toronto
Amlinson, A.E.	Room 1, Woolworth Building, Simcoe
Allingham & Gibson	1174 A Bay St., Toronto 5
Arts Dental Laboratory (Arthur M. Mangiacotte)	1081 St. Clair Ave., W., Toronto 10
Baker, L.	244 Bloor St. W., Toronto 5
Barber, Wm. T.	161 Charlotte St., Peterborough
Bathurst Dental Laboratory (John Polowko)	642 Bathurst St., Toronto 4
Beattie, Kenneth R.	173 King William St., Box 374, Hamilton
Bedell, Wm. M.	224-10th St. W., Owen Sound
Bedford, Ernest C.	115 Springhurst Ave., Ottawa
Binnie, John W.	206 King St., St. Catharines
Blandford, Charles H.	133 Kitchener Ave., Toronto 10
Bonomini, Emarino	217 1/2 North Front St., Sarnia
Boyce, Fred, co. Dr. A.C. Robinson,	918 Medical Arts Bldg., Toronto 5
Braund, Lorne M.	467 Queen's Ave., P.O. Box 306, London
Brown, Russell C.	949 St. Clair Ave., W., Toronto 10..
Bruce, Beverley Carl	674 Kingston Road, Toronto 8
Carruthers, Chris	Box 313, 134 Larch St., Sudbury
Clayton Dental Laboratory, Limited	79 Yorkville Ave., Toronto 5
Collins Dental Laboratory (Donald W. Collins)	168 Third Ave., Box 840, Timmins
Cowley, Frederick G.	193 Woolwich St., Guelph
Crowe, David G.	Victoria St., Box 250, Clinton
Cutler, Robert	96 Townsend Ave., Aldershot
Daly, C.L., and Son, Limited	2 Bloor St. E., Toronto 5
Daniels, Emerson F.	434 Ellerslie Ave., Willowdale
Darr, Atwood H.	1639 Bloor St. W., Toronto 4
Day, Thomas S.	1034 1/2 Bloor St. W., Toronto 4
Deegan, Gerald E.	172 King St. E., Oshawa
Delamont, Albert W.	37 Shaver Ave., S. Islington
Dentcraft Laboratories	45 Argyle Ave., Ottawa 4
Donaldson, C.V.	9 Kempenfeldt Drive, Barrie
Drover & Washbrook	890 Bloor St. W., Toronto 4
Elliott, Herbert C.	114 Humbercrest Blvd., Toronto 9
Ellis, Edgar	79 Jasper Ave., Box 219, Smiths Falls
Ellis, Wesley W.	6 William St. North, Lindsay
Ferrari, Donald R.	168 1/2 King St. W., Box 351, Chatham
Finlayson, Colin	142 Laurier Ave., W., Ottawa 4
Fisher, Egbert W.	48 Strathcona Ave., Brantford
Fisher, Franklin O.	7 Celestine St., St. Thomas
Forth, Frederick C.	46 Gibson St., Parry Sound
Frank's Dental Laboratory (Frank T. Parent)	182 Pitt St., 203 Murray Bldg., Windsor
Frontenac Dental Laboratory	105 Wellington St., Box 114, Kingston
Gabriel, Robert J.	218 1/2 Lochiel St., Sarnia
Gagnon, Harry J.	504 Queen St. E., Sault Ste. Marie
Gagnon, Joseph A.	332 Cumberland St., Ottawa
Gallagher, Wm. L.	Wellington St., Box 15, Eganville
Gates, Bartley	125 Pitt St., Cornwall
Gaulin, Herbert A.	104 John St., Napanee
Gerrard & Gerrard	47 King St., W., Kitchener
Gibson, Robert	16 Robinson St. S., Grimsby
Giffen, Lennard	King St., Box 489, Prescott
Goodall, Charles R.	1 Grant St., Toronto 8
Gosso Dental Laboratory	28 Picton St., London
Gour, Ubald	483 Catherine St., Pembroke
Hallam Dental Laboratories, Ltd.	132 Hallam St., Toronto 4
Hamm, Arthur L.	4215 Dundas St. W., Toronto
Harper's Laboratory	128 Main St. W., Hamilton
Harwood & Robinson	Room 202, 2 College St., Toronto 2
Hennessey, L.A.	263 Elgin St., Ottawa 4
Hirsh, Saul	495 Adelaide St., W., Toronto 2B.
Howe, Ronald D.	408 1/2 George St., Peterborough
Hyslop, Donald F.	Ann St., Box 160, Teeswater
Impertus, Kenny T.	232 Cooke St., Port Arthur
Jacob, W. George	758 Broadview Ave., Toronto 6
Jerry's Dental Laboratory (Gerald A. Villeneuve)	636 Boyd Ave., Ottawa 3
Johnston & Keyes	144 King St., Kitchener
Kapros Orthodontic Dental Laboratory (Albert Kapros)	180 Metcalf St., Ottawa
Kapsi Dental Ceramic Laboratory (T. Soosar)	86 Bloor St. W., Toronto 5
Kahoe, Joseph Frank	527 Queen St., Sault Ste. Marie
Kerswell, Leslie M.	20 Cameron Ave., N., Hamilton
Kingston Dental Laboratory (John Woogh) co. Princess Dental Laboratory	105 Princess St., Kingston
Kingsway Dental Laboratory (Frank Broadhead)	2487 Bloor St. W., Toronto 9
Koebert, Leo B.	703-15 St., East, Box 122, Owen Sound
Laansdowne, Charles F.	12 Jane St., Toronto 9

Dental Laboratories, 1960 - Continued

Name of firm	Address
Ontario—Concluded:	
Lawless, Vincent P.	11 Court House Ave., Brockville
Leamington Dental Laboratory (Bernard T. Tigwell)	85 Erie St. S., Box 3, Leamington
Leaver, Samuel C.	836-Second Ave., E., Owen Sound
Lewis Dental Ceramic Laboratory Ltd.	Suite 201, 2828 Bathurst St., Toronto 19
Ley, James	1465 Yonge St., Toronto 7
Lindberg & Homburger Dental Laboratory	209 Davenport Road, Toronto 5
Littler, George W.	193 William St., Brantford
Lochhead, John A.	410 Drummond Rd., Oakville
Lord, Norman K.	Bank of Toronto Bldg., Victoria Ave., Fort William
L & M Dental Laboratory (Robert Mitchell)	73 Stanley St., Galt
MacLeay, Roderick L.	12 B Kosen Block, Victoria Ave., Fort William
Macrow, Fred L.	345 Queen's Ave., London
Magson, C. Harold	577 Gerrard St., E., Toronto 8
McCullough, William W.	70 Gerrard St., E., Toronto 2
McEwen, Percy A.	29 Elmhurst Drive, Rexdale
McKanday, Gerald Keith	3331 Bloor St., W., Toronto 18
McKanday, Leonard R.	39 Park St., S., Hamilton
McKee, Glen S.	Suite 212, 635 Ouellette Ave., Windsor
McLaughlin, Allan G.	1291 Ouellette Ave., Windsor
McManus, John	248 Erie St., W., Windsor
Meredith, Walter K.	393 Water St., Peterborough
Metro Dental Laboratory	740 Spadina Ave., Toronto 4
Midland Dental Laboratory (Melvin A. Spence)	159 Elizabeth St., E., Midland
Midtown Dental Laboratory (Hillary M. Rubenstein)	353 Bathurst St., Toronto 2 B
Millard, Stanley H.	271½ Front St., Box 99, Belleville
Millward, Basil L.	512 Fourth St., E., Cornwall
Milne, Albert T.	339 St. Paul Ave., Brantford
Mimico Dental Laboratory	7 Superior Ave., Toronto 14
Mo-Dent Laboratory Ltd.	2223 Bloor St., W., Toronto 9
Morrison, Dental Laboratory	991 Wellington St., Ottawa 3
Munn, Reginald E.	264½ Ottawa St., N., Hamilton
Murray, Walter S.	28 King St., Welland
Needham, Joseph H.	46 Hamilton St., Goderich
Nobilium Processors Limited	1366 Bathurst St., Toronto 4
O'Dwyer, Thomas	1291 Ouellette Ave., Windsor
O'Neill & Hillar Dental Laboratory,	720 Medical Arts Bldg., Toronto
Orillia Dental Laboratory (Harry R. Usher)	35 West St., S., Orillia
O'Rourke, James J.	1498 Yonge St., Toronto 7
Oxberry, Thomas	152 University Ave., E., Cobourg
Parent, Denis A.	Room 29, Laing Bldg., 137 Ouellette Ave., Windsor
Patterson, Leonard	3872 Albion Road, Gloucester, Ottawa 3
Paver, Donald R.	7 Marshall Block, Timmins
Pearce, Norman W.	2293-A Yonge St., Toronto 12
Petlock and Nash Dental Laboratory	753 A Bathurst St., Toronto 4
Porter, Sydney B.	3 Macdonell Ave., Toronto 4
Posen and Feele Dental Laboratory Ltd.	1366 Bathurst St., Toronto 4
Pow, Erle J.	15 Reeve St., Woodstock
Premier Dental Laboratories (Phillip Kerbel)	382 Queen St. W., Toronto 2 B
Price Dental Laboratory J.R. (Jim Gibson)	717 Pape Ave., Toronto 6
Priestman, Russell H.	70 King St., St. Catharines
Racz, E.W.	188½ N. Christina St., Sarnia
Raven and Comeau Dental Laboratories	Suite 3, 684 Church St., Toronto 5
Reid, Clayton E.	356 Cooper St., Ottawa 4
Reis, Earl L.	72 Ontario St., Stratford
Robertson, Dental Laboratory	563 Armoury St., Niagara Falls
Roy, Wilfred L.	4 Durham St., North, Sudbury
Ryan, Joseph A.	29 E. Pinhurst Drive, Rexdale
S & B Dental Laboratory (Bodhan Switajlo)	2447 A Bloor St., W., Toronto 9
Sellinger, A.A.	12 Wilkes St., Brantford
Shaw Laboratories (W.T. Baluke)	104 Bond St., Toronto 2
Singleton, W.	2670 Yonge St., Toronto 12
Smith, Albert E.	14 Peel St., Simcoe
Smith, Frederick	74 St. Clair Ave., West, Toronto 7
Spence Dental Laboratory	280 Bloor St. W., Toronto 5
Stauffert, Mrs. Erika	51 Dunlop St. E., Barrie
Stewart, Alfred	1041 Avenue Road, Toronto 12
Strong, Barry A.	443 Wyandotte St., E., Windsor
Sudbury Dental Laboratory	58 Lisgar St., S., Sudbury
Sweet, Samuel P.	1341 Dundas St., W., Toronto 3
Taylor and Blomeley	188 Wellington St., Kingston
Taylor, Wm.	110 Church St., Oshawa
Thompson, Donald L.	610 Ellis St., Niagara Falls
Vowles, Edwin	226 O'Connor St., Ottawa 4
Walker, William L.	267 Evelyn Avenue, Toronto 9
Watson, John E.B.	Mary Walk, Elliott Lake
Wilcox, Lorne R.	1167-4th Ave. W., Owen Sound
Wilmac Dental Laboratory (Edward L. Wilkinson)	101 Sunning Hill Ave., Hamilton
Wilson, H. Lee	Centre St., Cooksville
Wilson and Southby Dental Laboratories	4866 Yonge St., Willowdale
Wood, Walter	527 A Bloor St., W., Toronto 4
Wyatt Dental Laboratory	269 Main St., W., North Bay
Manitoba:	
Abram, L.W.	402 Hart Bldg., 261 Fort St., Winnipeg
Alex's Dental Laboratory	978½ Main St., Winnipeg
Berg Dental Laboratory	10-290 Portage Ave., Winnipeg
Brandon Prosthetic Laboratory	31 Clement Block, Brandon
Campbell Dental Laboratory	6-264 Edmonton St., Winnipeg
Crescent Dental Laboratories	208-392 Notre Dame Ave., Winnipeg 3
Dauphin Dental Laboratory	Suite 3, Breslau Bldg. 213 Main St., N., Dauphin

Dental Laboratories, 1960 — Continued

Name of firm	Address
Manitoba—Concluded:	
Dental Clinic Laboratory	218 McIntyre Bldg., 416 Main St., Winnipeg 2
Fine Arts Dental Laboratory	300 Stafford St., Winnipeg 9
Fort Rouge Dental Laboratory	566 Osborne St., Winnipeg 13
Ideal Climax Dental Laboratory	311 Affleck Bldg., 317 Portage Ave., Winnipeg 2
Imperial Dental Laboratory	375 Cumberland Ave., Winnipeg 2
Lee Dental Laboratory	401 McIntyre Bldg., 416 Main St., Winnipeg
Malley, Crown Dental Laboratory, H.	274 Fort St., Winnipeg
Manitoba Dental Laboratories (59) Ltd.	404-406 Graham Ave., Winnipeg 1
Mansky Dental Laboratory	322 Kennedy St., Winnipeg 2
Modern Dental Laboratory	Suite 309, 317 Portage Ave., Winnipeg
Nomacs Dental Laboratory	857 Sargent Avenue, Winnipeg 3
Oral Arts Dental Studio	203 Professional Bldg., 407 Graham Ave., Winnipeg 1
Oral-Tru Dental Laboratory	203 Kresge Bldg., 374½ Portage Ave., Winnipeg
Reliance Dental Laboratory	553 Selkirk Ave., Winnipeg 4
St. James Dental Laboratory	1725 Portage Ave., St. James, Winnipeg 12
Shaw Dental Laboratory, Limited	Suite 210-388 Portage Ave., Winnipeg 1
Special Dental Laboratory	560½ Selkirk Ave., Winnipeg 4
Stanley Dental Laboratory	1474 Main St., Winnipeg
Tru-Fit Dental Laboratory	Suite 205, 416 Main St., Winnipeg 2
Vine Dental Laboratory	278½ Fort St., Winnipeg
Walters Dental Laboratory	629 Selkirk Ave., Winnipeg 4
Williams Dental Laboratory, R.H.	150 Edwards Ave., The Pas
Saskatchewan:	
Brown's Dental Laboratory	47 East Broadway, Yorkton
Capital Dental Laboratory	606 Medical and Dental Block, Regina
Davies Dental Laboratory	614 Canada Bldg., Saskatoon
Landon Dental Laboratory	135-2nd Ave., W., Box 1204, Biggar
Martin Dental Laboratory	16 Cole Bldg., Saskatoon
Milburn's Dental Laboratory	514 Canada Bldg., Saskatoon
Modern Dental Laboratory	Hammond Bldg., 310 Main St., N., Moose Jaw
Moose Jaw Dental Laboratory	311 Scott Bldg., Moose Jaw
North Battleford Dental Laboratory	Miller Block, 101 St., North Battleford
Northland Dental Laboratory	1106 Central Ave., Box 1028, Prince Albert
Prince Albert Dental Laboratory Ltd.	220 Mitchell Block, Prince Albert
Regina Dental Laboratory	102 Medical and Dental Bldg., Regina
Saskatoon Dental Laboratory	815 Canada Bldg., Saskatoon
Swirling Dental Laboratory	101 Avenue Bldg., 3rd Ave., Saskatoon
Swift Current Dental Laboratory	39 Central Ave., Swift Current
Waters Dental Laboratory, Wm.	216-220 Medical & Dental Bldg., Regina
Weaving Dental Laboratory, K.	27-5th St., Box 1300, Weyburn
Western Dental Laboratory	401 McCallum Hill Bldg., Regina
Alberta:	
Acadia Dental Laboratory	315 Alberta Corner Bldg., Calgary
A & J Dental Laboratory	8225-105 St., Edmonton
Camrose Dental Laboratory	4980-50 St., Box 481, Camrose
Central Alberta Dental Laboratory	5022 Ross St., Red Deer
Clarkson Dental Laboratory	Main St., Box 1329, Stettler
Dental Arts Laboratory (E.G. Proctor)	214 Alberta Corner, Calgary
Dominion Dental Laboratory	737 Tegler Bldg., Edmonton
Duff Hughes Dental Laboratory	501 Greyhound Bldg., Calgary
Edmonton Dental Laboratory	716 Tegler Bldg., Edmonton
Frank's Dental Laboratory	311 Birks Bldg., Edmonton
Grande Prairie Dental Laboratory	10008-101 Ave., Box 3479, Grande Prairie
Henry's Dental Laboratory	Suite 21, 236-8 Ave., S.W., Calgary
Lane-Cuthbertson Dental Laboratory Ltd.	810 A-1 St., W., Calgary
Lee Dental Laboratory	312 Leeson Lineham Block, Calgary
Lethbridge Dental Laboratory	204 Medical Dental Bldg., Lethbridge
Mayfair Dental Laboratory, Ltd.	10127-104 St., Edmonton
Medicine Hat Dental Laboratory	Suite 6 & 7, Astor Bldg., Medicine Hat
New-Johnson Dental Laboratory	10173-100 A St., Edmonton
Ponoka Dental Laboratory	5621-48 Ave., Box 538, Ponoka
Red Deer Dental Laboratory	Room 117, 4818-50th Ave., Red Deer
Shaw Dental Laboratory (Alberta) Limited ..	10324-112 St., Edmonton
Southern Dental Laboratory	212 Woolworth Bldg., Lethbridge
Stettler Dental Laboratory	Alberta Ave., Stettler
Stuart-Moore Dental Laboratory	302 Oddfellows' Bldg., Calgary
British Columbia:	
A A Dental Laboratory (George Watts)	Room 311, Ford Bldg., 193 E. Hastings, Vancouver 4
A & B Dental Laboratory	1501 West Broadway, Vancouver 9
Abbotsford Dental Laboratory	Jacobson Block, Trans-Canada Highway, Abbotsford
ABC Modern Dental Laboratory	132 E. Columbia St., New Westminster
A-1 Dental Laboratory	210 Ford Bldg., 193 E. Hastings St., Vancouver
Alpha Dental Laboratory (Bert Sleight)	4549 E. Hastings St., Burnaby 2
A & P Dental Laboratory—Head Office	1405 Douglas St., Victoria
Archibald, Pat	Room 407, Birks Bldg., 718 Granville St., Vancouver 2
Attwood Dental Laboratory	1862 West Broadway, Vancouver 9
Babalos Dental Laboratory, James	1102 Robson St., Vancouver 5
Barnes Dental Laboratory	1207 Douglas St., Victoria
Baynes Bros.	679 Granville St., Vancouver 2
B.C. Dental Laboratory (A. Buttress; R.A. De la Place) ..	Room 505, Ford Bldg., 193 E. Hastings St., Vancouver 4
Ball Dental Laboratory, W.A.	713 Columbia St., New Westminster
Bennett Dental Laboratory	1008 Blanshard St., Victoria
Bower Dental Laboratory (Jack Smith)	Room 609, 543 Granville St., Vancouver
Bowie Dental Laboratories	877 Hornby St., Vancouver 1

Dental Laboratories, 1960 — Concluded

Name of firm	Address
British Columbia—Concluded:	
Brown's Dental Laboratory	3737 E. Hastings St., Burnaby
Bryan Dental Laboratory	49 W. Hastings St., Vancouver
Bush Dental Laboratory, B.G.	535-3rd Ave., Prince Rupert
Central Dental Laboratory (Larry Turkington)	514-6th Ave., New Westminster
Chris' Dental Laboratory	3305½ Kingsway, Vancouver 16
Cleland Dental Laboratory	1735 W. Broadway, Vancouver 9
Columbia Dental Laboratory	604 Royal Ave., New Westminster
Commercial Dental Laboratory	4298 Commercial Drive, Vancouver 12
Cotton Dental Laboratory, Frank	7543 E. Grandview—Douglas Highway, Burnaby 3
Dental Ceramics (Robert Machray)	* 631-718 Granville St., Vancouver 2
Dental Prosthetics Laboratory	1701 W. Broadway, Vancouver 9
Dexter Dental Laboratory	5848 Ash St., Powell River
Dunbar Dental Laboratory	Suite 3, 4534 Dunbar St., Vancouver 8
Elliott Dental Laboratory	477 Martin St., Penticton
Emerick, Herb	816 Hornby St., Vancouver 1
Fairmont Dental Laboratory (Phil Snowden)	* 6-2414 Main St., Vancouver 10
Fine Arts Dental Laboratory, Ltd.	3256 Cambie St., Vancouver 10
Foster's Dental Laboratory	825 Granville St., Vancouver 2
Fraser Dental Laboratory (W. Unger)	685 E. 47th St., Vancouver 15
Gerry's Dental Laboratory	220-3rd Ave., Kamloops
Green's Dental Laboratory	916-6th Ave., N., Port Alberni
Haack Dental Laboratory	1178 Bay Ave., Trail
Hamlet Dental Laboratory	612 View St., Victoria
Heywood Dental Laboratory	20471 Douglas Crescent, Langley
Hodson Dental Laboratory	718 Granville St., Vancouver 2
Hossack Dental Laboratory, Ed.	4229 E. Hastings St., North Burnaby
Imperial Dental Laboratory	Scollard Bldg., 1207 Douglas St., Victoria
Interior Dental Laboratory	614 A Baker St., Cranbrook
Lewis Dental Laboratory	144 W. Hastings St., Vancouver 3
Lyric Dental Laboratory	Room 412-751 Granville St., Vancouver 2
Mechanical Dental Laboratory (Ken Sturch)	Room 310, 543 Granville St., Vancouver 2
Miller Dental Laboratory	925 W. Georgia St., Vancouver 1
Mission Dental Laboratory	Goodchild Bldg., Main St., Mission City
Morris Dental Laboratory	Room 1112-925 W. Georgia St., Vancouver 1
Murphy Dental Laboratory, Fayne	1232 Hornby St., Vancouver 1
Nanaimo Dental Laboratory	139 Bastion St., Nanaimo
New Method Dental Laboratory, Ltd.	163 W. Hastings St., Vancouver 3
Nixon Dental Laboratory	333-Fifth St., Courtenay
North Shore Dental Laboratories	136 East 15th Ave., North Vancouver
Northwest Dental Laboratories Ltd.	1131 Richards St., Vancouver 2
Pacific Dental Laboratory (Ed. Rae)	404 Abbott St., Vancouver 4
Palmer Dental Laboratory	614 Vernon St., Nelson
Penticton Dental Laboratory (W. Bench)	271 Main St., Penticton
P-N Dental Laboratory	209 Main St., Chilliwack
Porter Dental Laboratory, C.	Room 24, 817 Granville St., Vancouver 2
Precision Dental Laboratory (George A. Connolly)	9 W. Broadway, Vancouver 10
Royal City Dental Laboratories, Ltd. (Ernie Asals)	5369 Imperial, Burnaby
Seymour Dental Laboratory (B.W. Doherty)	144 W. Hastings St., Vancouver 3
Smith Dental Laboratory, G.R.	720 Granville St., Vancouver
Smith Dental Laboratory, W.E.	* 219-745 Yates St., Victoria
South Burnaby Dental Laboratory (Ray Cherrier)	4795 Kingsway, Burnaby
South Hill Dental Laboratory	2005 East 43rd Ave., Vancouver 16
Stewart Dental Laboratory, Roy	1102 Robson St., Vancouver 5
Stilling, Niels M.	1859 Commercial Drive, Vancouver 12
Stone Dental Laboratory	1705-3rd Ave., Prince George
Steele's Dental Laboratory	1207 Douglas St., Victoria
Thompson Laboratories, Ltd.	680 Robson St., Vancouver 2
Tuschek's Dental Laboratory	3028 W. Broadway, Vancouver 8
United Dental Laboratory (W.H. Lapointe)	2246 E. Hastings St., Vancouver 6
Valsbord Dental Laboratory	2775 W. Broadway, Vancouver 8
Village Dental Laboratory, The	1558 Lonsdale Ave., North Vancouver
Walters Dental Laboratory	9 East Hastings St., Vancouver 4
Watson's Dental Laboratory	2647 E. Hastings St., Vancouver 6
Watson Dental Laboratory J.A.	87 Wallace St., Nanaimo
Westminster Dental Laboratory, Ltd.	621-713 Columbia St., New Westminster
Widdows Dental Laboratory, W.	736 Granville St., Vancouver 2
Willson's Dental Laboratory	1772 Seventh Ave., Prince George
Wilson Dental Laboratory (Wilson M. Kong)	7-501 Main St., Vancouver 4

SECTION 4: INSTRUMENT AND RELATED PRODUCTS MANUFACTURERS, 1960

The implementation of the revised Standard Industrial Classification for the 1960 survey has brought about changes to this industry, in addition to a slight one in name. This industry is defined as comprising those "establishments primarily engaged in manufacturing mechanical measuring and controlling instruments (except clocks and watches); dental, medical and surgical instruments and equipment; optical instruments and lenses; and photographic equipment and supplies." For the reasons outlined in Section 1 of this report, the Principal Statistics given in Table 26 only date back to the year 1956. Also all following references to 1959 data relate to the revised data.

In 1960, there were 87 firms classified to this industry, 3 more than in 1959: they reported shipments totalling \$103,375,018, 6.2 per cent over the comparable 1959 figure of \$97,309,619. The industry employed 7,353 persons, an increase of 178 or 2.5 per cent, over the 7,175 on the payroll in 1959. Their salaries and wages, \$33,619,637 in 1960, were 6.0 per cent higher than the \$31,704,559 reported the year before. The cost of materials used in manufacturing, \$48,158,927, was 11.7 per cent above the comparable 1959 amount of \$43,106,790.

Information on the shipments of commodities by this industry is collected in detail, but the data must be suppressed in a number of cases because

the establishments involved are too few in number to permit publication without divulging figures of individual company shipments. However, as in the past, it has been possible to meet these confidentiality requirements and to publish useful figures by effecting appropriate combinations of commodities. Table 28 gives the factory shipments of the products manufactured by this industry in as much detail and with as much meaning as possible for 1960. It should be noted that comparable data for 1959 cannot be published because of the revisions made to this industry.

Tables 29 and 30 of this section cover imports and exports, respectively, and were published in previous years in the report on this industry as were the other two tables mentioned above. The balance of the totals included in this section are all new in 1960 and, once again, particular attention is drawn to the tables covering the breakdowns of the Principal Statistics by various economic groupings. These latter tables, 33 to 35, inclusive, show data for the years 1957 and 1960, again because of the revisions made to this industry.

A list of the firms classified to this industry for the 1960 survey will be found at the end of this section.

TABLE 26. Principal Statistics, Instrument and Related Products Manufacturers, 1956-60

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Gross value of production ¹
Basis: Standard Industrial Classification in use prior to 1960							
	number				dollars		
1956	77	5,565	21,867,834	507,292	25,361,290	43,851,464	67,875,442
1957	78	6,301	25,507,969	644,341	28,685,763	51,366,881	79,076,692
1958	83	6,960	30,243,321	654,881	41,435,857	50,483,863	91,616,218
1959	79	7,075	31,364,955	725,497	42,406,522	54,550,893	95,968,650
Basis: Standard Industrial Classification revised 1960							
	number				dollars		
1957							
Quebec	22	1,804	7,195,431	105,385	8,368,011	..	18,792,760
Ontario	52	4,544	18,430,190	540,287	20,759,632	..	60,879,087
Manitoba	3	14	41,869	872	106,989	..	182,570
Alberta ²	}						
British Columbia		4	58,948	4,245	5,760	..	65,465
Canada	81	6,379	25,726,438	650,789	29,240,392	..	79,919,882
1958							
Quebec	23	1,647	7,114,079	101,554	10,284,894	..	19,634,904
Ontario	57	5,385	23,337,931	561,417	31,568,961	..	72,479,743
Manitoba	}						
British Columbia ³		3	34,581	906	46,598	..	105,732
Alberta	4	9	33,173	1,112	92,085	..	285,451
Canada	87	7,052	30,519,764	664,989	41,992,538	..	92,505,830

See footnotes at end of table.

TABLE 26. Principal Statistics, Instrument and Related Products Manufacturers, 1956-60 - Concluded

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Gross value of production ¹
Basis: Standard Industrial Classification revised 1960							
	number				dollars		
1959							
Quebec	21	1,567	6,718,495	102,391	10,589,776	..	18,967,025
Ontario	55	5,581	24,881,780	633,494	32,405,524	..	77,900,148
Manitoba	3	11	36,579	919	42,343	..	107,818
British Columbia ²							
Alberta	5	16	67,705	677	69,147	..	334,628
Canada	84	7,175	31,704,559	737,481	43,106,790	..	97,309,619
1960							
Quebec	22	1,752	7,591,374	105,235	12,841,132	10,118,564	22,300,996
Ontario	58	5,570	25,902,958	629,778	35,159,994	45,452,665	80,667,754
Manitoba	4	18	62,462	2,054	80,514	122,256	193,068
British Columbia ³							
Alberta	3	13	62,843	2,526	77,287	103,267	213,200
Canada	87	7,353	33,619,637	739,593	48,158,927	55,796,752	103,375,018

¹ Commencing with 1951 "Value of factory shipments" has been collected instead of "Gross value of production".² Manitoba-1.³ Manitoba-2.TABLE 27. Inventories¹, 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening ² :				
Quebec	2,114,264	1,816,115	78,388	4,008,767
Ontario	6,503,630	8,115,261	4,086,157	18,705,048
Manitoba	10,566	2,187	7,087	19,840
British Columbia				
Alberta	12,918	27,925	25,000	65,843
Canada	8,641,378	9,961,488	4,196,632	22,799,498
Closing:				
Quebec	3,167,498	2,578,422	80,016	5,825,936
Ontario	6,126,743	7,735,479	5,040,622	18,902,844
Manitoba	20,754	4,452	16,578	41,784
British Columbia				
Alberta	14,676	13,430	9,375	37,481
Canada	9,329,671	10,331,783	5,146,591	24,808,045

¹ Book value of all manufacturing inventories held at plants and plant warehouses.² The opening inventory for 1960 differs from the closing inventory for 1959 because of the inclusion of new firms and the removal of figures for firms which did not operate during 1960.

TABLE 28. Factory Shipments, 1960

Product	Quantity	Selling value at factory
	No.	\$
Temperature and hygrometric instruments and accessories:		
Thermometers, industrial, laboratory, etc., and accessories	435,842	1,367,242
Pyrometers, thermocouples and accessories .....	... }	11,999,276
Heating and ventilating controls and accessories		
Temperature and hygrometric instruments and accessories, n.e.s.		
Electric quantity instruments and accessories .....	...	1,027,696
Pressure measuring instruments, gauges and accessories .....	...	1,897,356
Flow and liquid level instruments and accessories .....	...	2,635,000
Mechanical motion, rotation, timing and cycle instruments and accessories .....	...	1,343,939
Aircraft engine and flight instruments; aircraft and nautical navigational instruments and apparatus .....	..	17,881,374
Control valves and regulators, except voltage .....	..	5,116,183
Geophysical instruments, except electric quantity .....	..	544,690
Combination instruments; and indicating, recording and controlling instruments and accessories (except clocks and watches), n.e.s. ....	...	7,277,476
Dental, engineering, medical, surgical and optical instruments .....	..	1,523,750
Photographic equipment and supplies		1
All other scientific and professional equipment .....	...	36,172,416
All other products .....	...	1,039,771
Amount received for custom work and repairs .....	...	13,548,849
Total value of shipments .....	...	103,375,018

¹ Included with "All other scientific and professional equipment".

TABLE 29. Imports of Instruments and Related Products

Import class	Commodities imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
	Photographic equipment and supplies:				
9149	Cinematograph and motion picture cameras, for professional use; parts of the foregoing .....	...	183,634	...	274,340
9134	Cameras and camera parts, n.e.s. ....	...	7,659,979	...	7,966,169
9135	Cameras, parts, unfinished, for the manufacture of cameras ..	..	186,729	..	165,804
9136	Camera lenses and shutters for the manufacture of cameras ..	..	705,208	..	402,091
9006	Films, X-ray .....	..	3,732,158	..	4,059,785
9010	Films, for photographers' use .....	..	6,333,784	..	5,392,962
9012	Films, hypersensitive or super-sensitive, panchromatic, and infrared films, unexposed, for aerial photography .....	..	105,283	..	93,357
9020	Sensitized negative film, one and one-eighth inches in width, or over, for exposure in motion picture cameras .....	..	302,242	..	593,712
7125	Photographic dry plates .....	..	231,710	..	199,745
6311	Photoflash lamps	5,406,466	232,400	7,546,804	311,611
6312	Photographic lamps n.e.s. ....	..	..	216,899	291,416
9128	Photographic accessories, except cameras and parts, equipment used in developing, printing and finishing photographs; parts of all the foregoing .....	...	6,488,970	...	6,535,409
4211	Photographers' papers, albumenized and other chemically prepared, n.e.s. ....	..	4,272,485	..	5,194,526
5702	Projectors, still picture; and slides, and film strips therefor, n.e.s. ....	...	1,470,516	...	1,455,047

See footnote at end of table.

TABLE 29. Imports of Instruments and Related Products — Concluded

Import class	Commodities imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
	Instruments and apparatus:				
6228	Chronometers and compasses, and parts, including cards, not made in Canada, for ships or aircraft .....	...	233, 239	...	336, 261
9138	Cyclometers, pedometers, speedometers, and parts .....	...	352, 873	...	307, 733
9143	Dental instruments of any material; dental chairs; dental units; dental cuspidors; and parts .....	...	2, 615, 088	...	2, 667, 778
9147	Microscopes valued at not less than \$50 each, retail; and parts	22, 577	1, 438, 925	31, 610	1, 049, 508
5629	Engineers', surveyors', draftsmen's, machinists' or metal workers' precision tools and measuring instruments, geophysical surveying instruments, and parts, photogrammetric instruments for use in the interpretation of photographs and in the preparation of maps from photographs .....	...	6, 624, 273	...	5, 838, 197
9139	Globes, geographical, topographical and astronomical .....	..	267, 654	..	203, 490
9146	Optical, philosophical, and mathematical instruments, n.e.s., and parts .....	...	5, 313, 671	...	5, 058, 525
5727	Oven thermostats, automatic oven lighters and dual valves for gas stoves .....	..	112, 744	..	72, 089
9141	Philosophical and scientific apparatus, for use by institutions, hospitals and schools; materials, n.e.s., for use in manufacture of such apparatus .....	...	9, 154, 630	...	9, 295, 839
9129	Thermometers, including clinical thermometers .....	..	1, 496, 807	..	1, 412, 746
9150	Surgical instruments and parts .....	...	7, 642, 093	...	8, 554, 364
9070	Hearing aids and similar appliances for deaf persons, and parts; electronic equipment and parts thereof, when used for ear-training the deaf .....	...	2, 749, 965	...	2, 805, 611
6140	Batteries for hearing aids, and parts .....	...	456, 322	...	424, 737
5581	Fixed or stationary meters of a size or capacity not made in Canada, for hydraulic engineering; gauges, indicators and recorders for water or other liquid levels, volume or flow, of a class or kind not made in Canada; parts of all the foregoing .....	...	901, 660	...	805, 406
5572	Water meters, n.e.s., and parts	1, 146	118, 275	146	59, 190
7086	Lenses, glass, n.e.s. ....	..	503, 009	..	465, 452
	Total value of imports .....	...	71, 886, 326	...	72, 292, 900

¹ These data are published monthly in "Trade of Canada-Imports" (Catalogue No. 65-007), which also shows the details of shipments from individual countries.

TABLE 30. Exports of Instruments and Related Products

Export class	Commodities exported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
9330	Cameras	1, 115	157, 048	982	159, 111
9335	Camera parts .....	...	6, 594	...	7, 112
9355	Dental and surgical apparatus and instruments, and hospital equipment .....	...	2, 082, 991	...	2, 684, 045
9341	Film, motion-picture, not exposed	ft. 56,292,970	781, 878	41,088,060	605, 567
9345	Films, X-ray .....	..	3, 372	..	...
9343	Photo film and plates, unexposed, n.e.s. ....	..	2, 459, 027	..	2, 399, 747
9349	Photo film and plates sold, exposed, n.e.s. ....	..	..	..	373, 487
5700	Motion picture apparatus .....	..	18, 021	..	116, 719
9360	Philosophical and scientific apparatus and instruments, n.e.s. ....	...	3, 677, 928	...	6, 984, 493
	Total value of exports .....	...	9, 186, 859	...	13, 330, 281

¹ These data are published monthly in "Trade of Canada-Exports" (Catalogue No. 65-004), which also shows the details of shipments to individual countries.

TABLE 31. Employees and their Earnings, by Provinces, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
Quebec	508	227	737	95	1,567	3,689,474	3,029,021	6,718,495
Ontario	1,681	640	2,169	1,091	5,581	12,419,950	12,461,830	24,881,780
Manitoba	2	1	8	—	11	10,100	26,479	36,579
British Columbia								
Alberta	6	1	9	—	16	30,200	37,505	67,705
Canada	2,197	869	2,923	1,186	7,175	16,149,724	15,554,835	31,704,559
1960								
Quebec	542	208	851	151	1,752	3,733,106	3,858,268	7,591,374
Ontario	1,746	680	2,145	999	5,570	13,017,856	12,885,102	25,902,958
Manitoba	3	1	14	—	18	14,080	48,382	62,462
British Columbia								
Alberta	6	—	7	—	13	25,886	36,957	62,843
Canada	2,297	889	3,017	1,150	7,353	16,790,928	16,828,709	33,619,637

TABLE 32. Production Workers, by Months, 1960

Month	Male	Female
	number	
January	2,757	1,123
February	2,800	1,152
March	2,825	1,149
April	2,863	1,106
May	2,956	1,101
June	2,939	1,084
July	2,956	1,087
August	2,981	1,132
September	2,889	1,127
October	3,009	1,163
November	3,026	1,151
December	2,596	1,077
Average for establishments reporting monthly detail ¹	2,883	1,121
Average for establishments reporting quarterly detail ²		
Average estimated for small establishments ³	131	31
Average for all establishments	3,014	1,152

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

² For establishments reporting value of shipments between \$200,000 and \$1,000,000, quarterly figures only were collected and the employment figure reported at the end of each quarter was used as the monthly employment figure for that quarter.

³ For establishments generally reporting value of shipments of less than \$200,000, no data on the number of workers were collected. The average was estimated by using change in value of shipments to arrive at the value of the payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 33. Principal Statistics grouped by Shipment Size, 1957 and 1960

Shipment size	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			
1957						
Under \$10,000	11	17	32,283	4,283	20,702	62,434
\$ 10,000 to \$ 24,999	7	18	58,169	2,772	25,441	107,336
25,000 " 49,999	8	42	142,164	7,536	123,188	287,781
50,000 " 99,999	11	91	329,937	14,062	291,285	738,549
100,000 " 199,999	9	138	456,507	11,982	501,460	1,294,724
200,000 " 499,999	14	504	1,739,350	39,566	2,681,705	5,302,590
500,000 " 999,999	7	386	1,195,242	32,752	3,249,736	5,457,977
1,000,000 " 4,999,999	10	2,007	7,816,050	118,006	8,766,095	22,009,861
5,000,000 and over	4	3,159	13,883,789	419,830	13,580,780	44,658,630
Head offices .....	...	17	72,947	...	...	...
Totals	81	6,379	25,726,438	650,789	29,240,392	79,919,882
1960						
Under \$10,000	8	13	33,417	917	22,928	55,732
\$ 10,000 to \$ 24,999	12	34	109,546	4,459	58,140	186,488
25,000 " 49,999	9	53	172,075	6,300	94,873	324,094
50,000 " 99,999	15	129	429,576	13,555	434,995	1,063,239
100,000 " 199,999	8	111	384,126	11,025	405,332	1,094,977
200,000 " 499,999	8	183	711,202	27,586	737,123	2,394,124
500,000 " 999,999	10	547	1,830,521	48,032	3,394,193	7,354,021
1,000,000 " 4,999,999	12	1,680	7,234,941	112,480	13,598,133	26,130,170
5,000,000 and over	5	4,587	22,635,293	515,239	29,413,210	64,772,173
Head offices .....	...	16	78,940	...	...	...
Totals	87	7,353	33,619,637	739,593	48,158,927	103,375,018

TABLE 34. Principal Statistics by Type of Ownership, 1957 and 1960

Type of ownership	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			
1957						
Individual ownership	10	40	118,579	5,315	68,376	204,750
Partnership	4	8	23,020	978	18,003	52,249
Incorporated company	67	6,331	25,584,839	644,496	29,154,013	79,662,883
Totals	81	6,379	25,726,438	650,789	29,240,392	79,919,882
1960						
Individual ownership	9	53	176,419	6,723	81,603	299,657
Partnership	2					
Incorporated company	76	7,300	33,443,218	732,870	48,077,324	103,075,361
Totals	87	7,353	33,619,637	739,593	48,158,927	103,375,018

TABLE 35. Principal Statistics by Number of Employees per Establishment, 1957 and 1960

Employee size	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			
1957						
Under 5 employees	21	43	145,846	8,507	139,757	382,344
5 to 14 employees	23	180	608,209	24,874	1,023,279	2,119,307
15 " 49 "	17	515	1,700,064	43,086	3,530,418	6,838,322
50 " 99 "	7	477	1,588,652	46,435	3,138,559	5,593,124
100 " 199 "	6	859	3,250,027	48,076	4,643,076	11,154,131
200 and over	7	4,288	18,360,693	479,811	16,765,303	53,832,604
Head office .....	...	17	72,947	...	...	...
Totals	81	6,379	25,726,438	650,789	29,240,392	79,919,882

TABLE 35. Principal Statistics by Number of Employees per Establishment, 1957 and 1960 — Concluded

Employee size	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			
1960						
Under 5 employees	27	71	252,563	10,229	264,286	659,118
5 to 14 employees	21	176	582,557	25,466	578,802	1,846,862
15 " 49 "	18	479	1,807,327	57,454	3,456,771	8,166,732
50 " 99 "	7	479	1,857,821	38,649	3,413,646	6,869,837
100 " 199 "	7	946	3,561,508	62,278	7,286,201	13,706,804
200 " 499 "	3	1,008	4,521,216	60,303	8,273,119	12,732,741
500 and over	4	4,178	20,957,705	485,214	24,886,102	59,392,924
Head office .....	...	16	78,940	...	...	...
Totals	87	7,353	33,619,637	739,593	48,158,927	103,375,018

TABLE 36. Consumption of Fuel and Electricity, 1960

Kind	Quantity	Cost at plant (Omit cents)
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal (a) From Canadian mines	—	—
(b) Imported	ton 12,948	147,317
Sub-bituminous coal (from Alberta mines only)	—	—
Anthracite coal	—	—
Lignite coal	—	—
Coke (for fuel only)	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 372,484	149,956
Fuel oil (including kerosene or coal oil)	" 868,718	95,301
Wood	—	—
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal. 2,280	891
(b) Other manufactured gas	—	—
(c) Natural gas	1,000 cu. ft. 11,543	14,439
Other fuel .....	..	661
Electricity purchased	kwh. 24,597,353	218,469
2. Establishments reporting group detail: ²		
Cost of fuel .....	...	48,600
Cost of electricity .....	..	28,209
3. Estimate for establishments for which no data were collected: ³		
Cost of fuel and electricity .....	...	35,750
4. All establishments:		
Total cost of fuel and electricity .....	...	739,593

¹ Establishments generally reporting value of shipments of \$1,000,000 and over.² Establishments generally reporting value of shipments between \$200,000 and \$1,000,000.³ Establishments generally reporting value of shipments of less than \$200,000.

Instrument and Related Products Manufacturers, 1960

Name of firm	Address
Quebec:	
Alica Instruments Co. Ltd.	1045 Laurier Ave., W., Montreal 8
Aviation Electric Limited	200 Laurentien Blvd., St. Laurent, P.O. Box 6102, Montreal 9
Bailey Meter Co., Ltd.	5010 St. Catherine St., W., Montreal 6
Beaconing Optical & Precision Materials Co., Ltd.	Head Office — 455 Craig St., W., Montreal 1 Plant — 555 Blvd. Boivin, Granby
Butler Optical Co., Ltd., The	2160 Mountain St., Montreal 25
Canadian Aeronautical Instruments, Ltd.	1570 Barre St., St. Laurent, Montreal 9
Canadian Instruments and Cameras, Attention F. A. Shark	Dundee
Canadian Medical Instruments Co., Ltd.	2046 Joly Ave., Montreal
Forboro Company, Limited, The	707 Dollard St., Ville-La Salle
General Wax Products Co.	46 A Ste. Anne St., Pointe Claire
Industrial Scientific Instruments	Room 200, 1610 Sherbrooke St., W., Montreal 25
International Divers Corp.	917 Craig St. E., Montreal 24
Date, John, Ltd.	385 Concord St., Montreal 2
Liquidometer of Canada, Ltd.	1740 Côte-Vertu Rd., St. Laurent, Montreal 9
Mi-Co Meter Sales & Service Ltd.	17 Monk St., Longueuil, Ville-Jacques-Cartier
Pitanco Instruments Ltd.	3360 Graham Blvd., Town of Mount Royal, Montreal 16
Pontbriand Taximeter, Ltd.	718 Gilford St., Montreal 34
Radium Dial Corp.	920 McEachran Ave., Outremont, Montreal 8
Research Instrumentation Ltd.	203 Prince Arthur St. W., Montreal 16
Sperry Gyroscope Co. of Canada, Ltd.	P.O. Box 710, Montreal Plant — 6011 Côte-de-Liesse Rd., St-Laurent, Montreal 9
Thermometer Corp. of Canada, Ltd.,	441 St. Peter St., Montreal 1
Vector Labs. Inc.	736 Notre Dame St. W., Montreal 3
Ontario:	
Acridenta Manufacturing Co., c/o Springer Chapman & Co.	Suite 805, 137 Wellington St., W., Toronto 1 Plant — 243 Oakwood Ave., Toronto 10
Acrolab Instrument Co.	2010 Assumption St., Windsor
American Sterilizer Co. of Canada, Ltd.	255 Queen St. E., Brampton
Automatic Thermo Sales & Mfg. Ltd.	188 Duke St., Toronto 2
Bell and Howell, Canada, Ltd.	88 Industry St., Toronto 15
The Bristol Company of Canada Ltd.	71-79 Duchess St., Toronto 2
Brooks Rotameter of Canada, Ltd.	32A Howden Rd., Scarborough
Bursan Designs and Development Ltd.	290 Adelaide St. W., Toronto 2B
Canadian Applied Research Ltd.	750 Lawrence Ave., W. Toronto 19
Canadian Geophysical Laboratories Ltd.	6080 Yonge St., Willowdale
Canadian Kodak Co., Ltd.,	Eglinton Ave. W., Mount Dennis, Toronto 15
Canadian Neutronics Ltd.	12 Laurel St. E., Waterloo
Canadian Research Institute	85 Curlew Drive, Don Mills
Computing Devices of Canada, Ltd.	P.O. Box 508, Ottawa
Controls Company, Canada, Limited	P.O. Box 535, Cooksville
Cork, A., Dental Mfg.	47 Clarkson Ave., Toronto 10
Dole Valve Co. of Canada Ltd.	1490 Speers Rd., Oakville
Douglas Randall (Canada) Ltd.	126 Manville Road, Scarborough
Eastern Geophysics Ltd.	69 Kipling Ave. S., Toronto 18
Edo (Canada) Limited	P.O. Box 97, Cornwall
Electronic Associates, Limited,	4616 Yonge St., Willowdale
Fischer & Porter (Canada) Ltd.	2808 Jane St., P.O. Box 135, Downsview
Fisher Governor Co. Of Canada, Ltd.	1039 Dundas St., E., Woodstock
General Controls Co. (Canada) Ltd.	171 Surrey St., Guelph
Guildline Instruments, Ltd.	Churchill Crescent Smiths Falls
Hellpot Division of Beckman Instruments Inc.	901 Oxford St., Toronto 18
Honeywell Controls Ltd.	Vanderhoof Ave., Toronto 17
Kent, George, (Canada) Ltd.	389 Horner Ave., Toronto 14
Leeds and Northrup, Canada, Ltd.	61 Industry St., Toronto 15
Leitz, Ernest, (Canada) Limited	122 Ellen St., Midland
Mason-Neilan Division of Worthington (Canada) Ltd.	Brantford
Milltronics Ltd.	129 Adelaide St., W. Toronto 1 Plant — 730 The Kingsway, Peterborough

Instrument and Related Products Manufacturers, 1960 — Concluded

Name of firm	Address
Ontario — Concluded:	
Monarch Massage Equipment Ltd.	12 Maple St., Box 1249, Fort Erie
Moore Instruments Co. Ltd.	51 Brydon Ave., Rexdale
Muirhead Instruments Ltd.	677 Erie St., Stratford
Palmeo Thermometer Co., Ltd., The	143 Parliament St., Toronto 2
Park-O-Meter Co. of Canada, Ltd.	79-81 Main St., Toronto 13
Penn Controls Ltd.	929 Warden Ave., Scarborough
Polytronics Co.	582 Bathurst St., Toronto 4
Republic Flow Meters Canada, Ltd.	40 Wellington St., W., Guelph
Robertson-Fulton Controls (Canada) Ltd.	580 Evans Ave., Toronto 14
Roydes & Edwards Ltd.	104 Lombard St., Toronto 1
Safe Flight Instruments (Canada) Ltd.	Malton Airport, R.R. #4, Malton
Sperry Gyroscope, Ottawa Ltd.	3 Hamilton Ave., P.O. Box 90, Ottawa 3
Standard Instruments (Canada) Ltd.	85 Curlew Drive, Don Mills
Sterilon of Canada, Ltd.	1700 Lewis Ave., Niagara Falls
Taylor Instrument Companies of Canada, Limited	75 Tycos Drive, Toronto 19
Thermo Electric (Canada) Ltd.	Kennedy Road, Brampton
Thermovolt Instruments, Ltd.	70 Advance Rd., P.O. Box 43, Toronto 18
Trerice, H.O., Co.	926 W. Wyandotte St., Windsor
Union Metal Mfg. Co. of Canada, The, Ltd.	45 McMurchy Ave. N., P.O. Box 158, Brampton
United Electric X-Ray Co., Ltd.	345 Adelaide St., W., Toronto 2 B
Westphal, George, Co. of Canada, Ltd.	P.O. Box 511, Oak Ridges
Westwood Bros., Owner Mrs. Jean H. Spry	635 Queen St. W., Toronto 2 B
White-Rodgers, Ltd.	Box 530, Markham
Wilcolator (Canada) Ltd.	221 Evans Ave., Toronto 18
Winter's Thermogauges Ltd.	52 Hyde Ave., Toronto 9
Wright Instrument Service, Ltd.	186 Donlea Drive, Toronto 17
Manitoba:	
Nuclear Enterprises Ltd.	550 Berry St., St. James, Winnipeg 21
Parker Earmold Laboratory	105 Norlyn Medical Bldg., 309 Hargrave St., Winnipeg 2
Alberta:	
Camrose Electric Controls Ltd.	6025-48 Ave., Camrose
Marsh Instruments & Valve Co. (Canada) Ltd.	8407-103rd St., Edmonton
Timewell Controls Ltd.	5220-1 A St. S. E., Calgary
British Columbia:	
Peninsular Products, Ltd.	Lower Road, Gibsons
Sirco Products Limited	1776 Powell St., Vancouver 6.

SECTION 5: OPHTHALMIC GOODS MANUFACTURERS, 1960

The implementation of the revised Standard Industrial Classification for the 1960 survey also brought about a change to this industry, in addition to one in title. The industry is defined as comprising those "establishments primarily engaged in grinding ophthalmic lenses and the manufacturing of other ophthalmic goods such as complete spectacles, sunglasses, etc." The Principal Statistics given in Table 37 only date back to the year 1956 for the reasons outlined in Section 1 of this report and the references made below to the 1959 data relate to the revised data in all cases.

There were 44 firms in this industry in 1960 as opposed to 37 in the previous year, but the 1960 shipments of \$6,890,592 were 5.6 per cent below the value of \$7,301,542 reported in 1959. In the year under review, the 1,098 employees received a total of \$3,602,506 in salaries and wages whereas,

in 1959, the 1,018 employees were paid \$3,105,763. On the other hand, the 1960 cost of materials and supplies used at \$3,127,872 was 11.1 per cent lower than the value of \$3,516,818 reported in the previous year.

The breakdown of industry shipments is given in Table 39 and, here again, this has been restricted to the year 1960 because of the changes to the industry. Imports and exports are given in Tables 40 and 41, respectively. The other tables in this section of the report are being published for the first time and particular attention is directed to Tables 44 to 46, inclusive, giving the breakdown of the Principal Statistics by various economic groupings for the years 1957 and 1960.

A list of the firms classified to this industry for the 1960 survey will be found at the end of this section.

TABLE 37. Principal Statistics, Ophthalmic Goods Manufacturers, 1956 - 60

Year and Province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
Basis: Standard Industrial Classification in use prior to 1960							
	number				dollars		
1956	33	1,031	2,836,935	89,474	2,714,859	3,511,543	6,152,081
1957	37	1,048	3,030,989	94,343	2,695,569	3,483,058	6,383,521
1958	39	1,080	3,251,950	91,516	3,172,989	3,844,548	7,025,458
1959	38	1,039	3,163,205	93,200	3,380,748	3,903,702	7,464,348
Basis: Standard Industrial Classification revised 1960							
	number				dollars		
1957							
New Brunswick	3	13	30,645	1,116	1,135	..	24,684
Quebec	7	214	539,629	18,641	709,407	..	1,675,015
Ontario	19	739	2,252,640	69,154	1,770,306	..	4,186,206
Alberta	4	22	55,068	1,130	65,723	..	153,948
Nova Scotia	}	36	94,539	936	73,330	..	173,422
Manitoba							
Saskatchewan ¹							
Canada	36	1,024	2,972,521	90,977	2,619,901	..	6,213,275
1958							
New Brunswick	3	9	17,228	1,173	1,198	..	24,029
Quebec	9	215	581,666	19,933	941,915	..	2,047,581
Ontario	19	783	2,449,497	65,199	1,969,730	..	4,455,051
Alberta	4	22	54,033	1,116	104,185	..	163,889
Nova Scotia	}	29	92,399	976	89,260	..	172,028
Manitoba							
Saskatchewan ¹							
Canada	38	1,058	3,194,823	88,397	3,106,288	..	6,862,578

See footnotes at end of table.

TABLE 37. Principal Statistics, Ophthalmic Goods Manufacturers, 1956-60 - Concluded

Year and Province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
Basis: Standard Industrial Classification revised 1960							
1959	number		dollars				
New Brunswick	3	13	34,300	1,149	29,797	..	106,940
Quebec	9	223	588,353	19,261	1,294,766	..	2,418,003
Ontario	19	731	2,331,716	66,881	2,038,685	..	4,458,286
Alberta	3	22	62,577	1,364	86,516	..	163,164
Nova Scotia	}	29	88,817	835	67,054	..	155,129
Manitoba							
Saskatchewan ¹							
Canada	37	1,018	3,105,763	89,490	3,516,818	..	7,301,542
1960	number		dollars				
New Brunswick	3	10	31,892	1,157	34,110	69,990	105,257
Quebec	11	215	635,929	20,522	1,178,797	973,225	2,116,934
Ontario	22	805	2,720,931	64,110	1,754,395	2,319,102	4,130,185
Alberta	3	21	53,025	1,739	74,698	85,220	163,665
Nova Scotia	}	47	160,729	2,156	85,872	286,560	374,551
Manitoba							
British Columbia ²							
Canada	44	1,098	3,602,506	89,684	3,127,872	3,734,097	6,890,592

¹ Nova Scotia - 1; Manitoba - 1 and Saskatchewan - 1.² Nova Scotia - 2; Manitoba - 2 and British Columbia - 1.TABLE 38. Inventories,¹ 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening: ²				
New Brunswick	28,532	—	—	28,532
Quebec	406,209	99,869	142,277	648,355
Ontario	697,188	324,723	491,410	1,513,321
Alberta	8,755	—	23,705	32,460
Nova Scotia	}	—	16,407	50,671
Manitoba				
British Columbia				
Canada	1,174,948	424,592	673,799	2,273,339
Closing:				
New Brunswick	29,423	—	—	29,423
Quebec	440,790	119,624	178,132	738,546
Ontario	878,582	405,835	417,720	1,702,137
Alberta	6,962	—	21,697	28,659
Nova Scotia	}	—	16,444	52,647
Manitoba				
British Columbia				
Canada	1,391,960	525,459	633,993	2,551,412

¹ Book value of all manufacturing inventories held at plant and plant warehouses.² The opening inventory for 1960 differs from the closing inventory for 1959 because of the receipt of revised data, the inclusion of new firms and the removal of figures for firms which did not operate during 1960.

TABLE 39. Factory Shipments, 1960

Products	Quantity	Selling value at factory
		\$
Lenses for spectacles No.	1,847,735	3,060,958
Spectacles complete pr.	174,579	1,682,392
Sunglasses	1	1
All other ophthalmic goods .....	...	1,903,430
Other scientific and professional equipment .....	...	139,190
All other products .....	...	56,351
Received in payment for work done on materials owned by others .....	...	48,271
Total value of shipments .....	...	6,890,582

¹ Confidential. Included with "All other ophthalmic goods".

TABLE 40. Imports of Ophthalmic Goods

Import class	Commodities imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
7126	Spectacles, eye-glasses and ground or finished spectacle or eye-glass lenses, n.e.s. ....	...	1,100,440	...	1,409,496
9082	Spectacle and eye-glass frames, and parts, n.e.s. ....	...	3,382,106	...	3,304,002
9083	Parts, unfinished, for the manufacture of spectacle and eye-glass frames .....	...	671,246	...	721,341
7124	Artificial eyes for human use, and contact lenses and anterior chamber implants for the human eye .....	...	56,542	...	71,035
	Total value of imports		5,210,334		5,505,874

¹ These data are published monthly in "Trade of Canada—Imports" (Cat. No. 65-007), which also shows the details of shipments from individual countries.

TABLE 41. Exports of Ophthalmic Goods

Export class	Commodities exported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
9140	Goggles and spectacles and parts .....	...	25,061	...	122,122
7185	Lenses of glass, rough or finished .....	...	862,643	...	998,645
	Total value of exports .....	...	887,704	...	1,120,767

¹ These data are published monthly in "Trade of Canada—Exports" (Cat. No. 65-004), which also shows the details of shipments to individual countries.

TABLE 42. Employees and their Earnings, by Provinces, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office employees		Production Workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
	number					dollars		
1959								
New Brunswick	4	1	8	—	13	18,583	15,717	34,300
Quebec	27	23	144	29	223	157,384	430,969	588,353
Ontario	132	93	322	184	731	906,405	1,425,311	2,331,716
Alberta	2	1	17	2	22	9,400	53,177	62,577
Nova Scotia	4	2	19	4	29	29,269	59,548	88,817
Manitoba								
Saskatchewan								
Canada	169	120	510	219	1,018	1,121,041	1,984,722	3,105,763
1960								
New Brunswick	3	1	6	—	10	17,676	14,216	31,892
Quebec	28	21	139	27	215	176,075	459,854	635,929
Ontario	202	67	326	210	805	1,212,101	1,508,830	2,720,931
Alberta	3	1	14	3	21	15,456	37,569	53,025
Nova Scotia	9	4	30	4	47	56,227	104,502	160,729
Manitoba								
British Columbia								
Canada	245	94	515	244	1,098	1,477,535	2,124,971	3,602,506

TABLE 43. Production Workers, by Months, 1960

Month	Male	Female
	number	
January	524	254
February	522	259
March	527	266
April	528	266
May	531	258
June	515	247
July	503	243
August	498	220
September	506	225
October	507	226
November	505	226
December	506	218
Monthly average¹	514	242

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$100,000 and over. For establishments generally reporting value of shipments between \$50,000 and \$100,000, quarterly figures only were collected and the employment figure reported at the end of each quarter was used as the monthly figure for that quarter. For establishments generally reporting value of shipments of less than \$50,000, no data on the number of workers were collected. The 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 the number of workers. This estimated number of workers was then included in each month's total.

TABLE 44. Principal Statistics grouped by Shipment Size, 1957 and 1960

Shipment size	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			
1957						
Under \$10,000	4	10	19,510	931	4,749	24,549
\$ 10,000 to \$ 24,999	3	12	31,498	864	6,229	47,150
25,000 " 49,999	6	26	80,762	1,290	89,163	193,534
50,000 " 99,999	10	119	326,266	6,234	241,610	705,799
100,000 " 199,999	6	115	339,659	9,475	297,569	767,759
200,000 " 499,999	4	235	559,561	31,098	686,613	1,483,284
500,000 and over	3	364	1,052,395	41,085	1,293,968	2,991,200
Head offices .....	...	143	562,870	...	...	...
Totals	36	1,024	2,972,521	90,977	2,619,901	6,213,275
1960						
Under \$10,000	2	} 18	58,980	1,514	34,597	116,455
\$ 10,000 to \$ 24,999	6					
25,000 " 49,999	11	103	303,328	5,194	142,370	378,293
50,000 " 99,999	8	74	225,939	3,594	178,417	518,316
100,000 " 199,999	10	168	553,203	10,385	502,226	1,353,952
200,000 " 499,999	4	254	761,982	33,396	717,330	1,557,086
500,000 and over	3	305	908,259	35,601	1,552,932	2,966,490
Head offices .....	...	176	790,815	...	...	...
Totals	44	1,098	3,602,506	89,684	3,127,872	6,890,592

TABLE 45. Principal Statistics by Type of Ownership, 1957 and 1960

Type of ownership	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			
1957						
Individual ownership	5	} 36	91,018	2,413	121,887	270,875
Partnership	1					
Incorporated company	30	988	2,881,503	88,564	2,498,014	5,942,400
Totals	36	1,024	2,972,521	90,977	2,619,901	6,213,275
1960						
Individual ownership	6	22	77,664	1,295	46,552	166,672
Partnership	3	44	126,834	3,277	139,048	292,900
Incorporated company	35	1,032	3,398,008	85,112	2,942,272	6,431,020
Totals	44	1,098	3,602,506	89,684	3,127,872	6,890,592

TABLE 46. Principal Statistics by Number of Employees per Establishment, 1957 and 1960

Employee size	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			
1957						
Under 5 employees	7	18	55,159	1,460	54,370	131,084
5 to 14 employees	15	123	337,152	7,387	303,285	866,832
15 " 49 "	8	180	496,591	12,917	397,030	1,016,011
50 and over	6	560	1,520,749	69,213	1,865,216	4,199,348
Head office .....	...	143	562,870	...	...	...
Totals	36	1,024	2,972,521	90,977	2,619,901	6,213,275
1960						
Under 5 employees	14	39	126,612	3,302	100,121	317,101
5 to 14 employees	16	154	519,855	6,892	460,004	1,366,614
15 " 49 "	7	170	494,983	10,493	297,485	683,301
50 and over	7	559	1,670,241	68,997	2,270,262	4,523,576
Head office .....	...	176	790,815	...	...	...
Totals	44	1,098	3,602,506	89,684	3,127,872	6,890,592

TABLE 47. Consumption of Fuel and Electricity, 1960

Kind	Quantity	Cost at plant
		\$
1. Establishments reporting commodity detail: ¹		
Bituminous coal (a) From Canadian mines	—	—
(b) Imported	ton 627	5,956
Sub-bituminous coal (from Alberta mines only)	" 325	5,293
Anthracite coal	" 5	75
Lignite coal	—	—
Coke (for fuel only)	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 25,031	10,522
Fuel oil (including kerosene or coal oil)	" 86,542	11,573
Wood (cords of 128 cubic feet of piled wood)	—	—
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal. 2,974	1,196
(b) Other manufactured gas	1000 cu. ft. 144	127
(c) Natural gas	" 2,944	3,816
Electricity purchased	kwh. 3,142,229	48,329
2. Establishments reporting group detail: ²		
Cost of fuel .....	...	244
Cost of electricity .....	..	1,350
3. Estimate for establishments for which no data were collected: ³		
Cost of fuel and electricity .....	...	1,203
4. All establishments:		
Total cost of fuel and electricity .....	...	89,684

¹ Establishments generally reporting value of shipments of \$100,000 and over.² Establishments generally reporting value of shipments between \$50,000 and \$100,000.³ Establishments generally reporting value of shipments of less than 50,000.

Ophthalmic Goods Manufacturers, 1960

Name of firm	Address
Nova Scotia:	
Eastern Optical Laboratories, Ltd.	23 Portland St., Dartmouth
Garnett Optical Company Limited	411 Barrington St., P.O. Box 1164, Halifax
New Brunswick:	
Imperial Optical Co. of N.B. Ltd.	Head Office—6 Wellington Row, Saint John Plant—19 Phoenix Square, Fredericton " 691 Main Street, Moncton
Quebec:	
American Optical Co. Canada, Limited	161 Bridge St., Box 310, Belleville, Ont. Plant—Nicolet, Que.
Cle d'Optique Montcalm, Ltée.	4566 de la Roche, Montreal 34
Commercial Contact Lens Co., Ltd.	1461 Metcalfe St., Montreal 2
Commercial Optical Co., Regd.	1461 Metcalfe St., Montreal 2
General Optical Co., Ltd.	1653 Simard Lane, Montreal 34
Kahn Optical Co., Ltd.	Head Office—36 Dundas St., E., Toronto 2 Plant—Room 218, 400 Ontario St., W., Montreal
Le Grand, J.A., & Co.	400 rue Sherbrooke, E., Montreal 18
L'Optique Lavolette.	518 rue des Volontaires, Trois Rivières
Maritime Optical Co., Ltd.	1059 St. John St., E., Quebec
Remi Lamarche.	4566 de la Roche, Montreal 34
United Optical, Inc.	6 Wellington St., South, Sherbrooke
Ontario:	
American Optical Co. Canada, Ltd.	Head Office—161 Bridge St., P.O. Box 310, Belleville Plant—161 Bridge St., Belleville
Apex Optical Co., Limited.	207 Kresge Block, 513 Victoria Ave., Fort William
Bausch and Lomb Optical Co., Ltd.	Head Office—16 Grosvenor St., P.O. Box 4008, Terminal A, Toronto Plant—Lindsay St., Midland
Bingham Optical Co., Ltd.	123½ King St., W., Chatham
Brampton Optical Co.	11 George St., Brampton
Canada Zyl Co., Ltd.	1 Plastics Ave., Deseronto
Dominion Contact Lens Lab. Ltd.	157 Fourth St., New Toronto
Drewell, Donald A. & Co.	10 Duke St., Toronto 2
Egon Optical Co.	277 Victoria St., Toronto 2
Hamilton Lens Co., Ltd.	43 Hughson St., N., Hamilton
Imperial Optical Co., Ltd.	21 Dundas Square, Toronto 1 Plant—365 Dundas St., E., Toronto 2
Kahn Optical Co., Ltd.	Head Office—36 Dundas St., E., Toronto 2 Plant—36 Dundas St., E., Toronto 2 " 125 King St., W., Kitchener " 153 King St., London
K & W Optical Co., Ltd.	Head Office—251 King St., W., Kitchener Plant—251 King St., W., Kitchener " 233 Dundas St., London " 29 St. James St., St. Catharines
Monarch Optical Manufacturers Ltd.	47-49 LaPlante St., Toronto 2
Mutual Optical Co., Ltd.	438 Talbot St., London
Naruse Optical Co., Ltd.	71 York St., Hamilton
Plastic Contact Lens Co. (Canada) Ltd.	c/o Peter E. Best, C.A. 21 Dundas Square, Toronto 1
Standard Optical Co., Ltd.	21 Dundas Square, Toronto 1
Manitoba:	
Central Optical Co.	* 1, 394 Graham Ave., Winnipeg 1
Kahn Optical Co., Ltd.	Head Office—36 Dundas St., E., Toronto 2 Plant—410 Canada Bldg., 352 Donald St., Winnipeg 2
Alberta:	
Imperial Optical Co., Ltd.	4919-49th St., Red Deer
Kahn Optical Co., Ltd.	Head Office—36 Dundas St., E., Toronto 2 Plant—236 Eighth Ave., W., Calgary " 10187-103rd St., Edmonton
British Columbia:	
Ferguson, J.P. Laboratory	412 Seymour St., Vancouver 2

SECTION 6: ORTHOPAEDIC AND SURGICAL APPLIANCE MANUFACTURERS, 1960

The implementation of the revised Standard Industrial Classification for the survey year 1960 has not made any change to the composition of this industry as a scrutiny of the Principal Statistics given in Table 48 will reveal. The industry continues to be defined as comprising those "establishments primarily engaged in manufacturing surgical and orthopaedic appliances and supplies such as artificial limbs, arch supports, etc."

For the reasons outlined in Section 1, Table 48 only dates back to the year 1956 and reveals that there were 37 firms in this industry in 1960, one more than the year before. Their shipments in the year under review amounted to \$2,475,194 as opposed to \$2,541,067 in 1959, a decrease of 2.6 per cent. On the other hand, their employees increased slightly from 343 to 346 and their 1960 salaries and wages payments, at \$1,094,125, were 8.3 per cent greater than the comparable 1959 figure

of \$1,009,996. The cost of materials and supplies used in 1960, \$892,087, was also somewhat higher than the value of \$863,030 reported in the previous year.

A breakdown of the factory shipments for both 1959 and 1960 is given in Table 50; and Table 51 shows the imports for the same two years. The remaining tables in this section are being published for the first time and particular attention is again drawn to Tables 54 to 56, inclusive, covering the breakdown of the Principal Statistics by various economic groupings: in this instance, the data are presented for the years 1959 and 1960 since there has been no change to this industry.

A list of the firms classified to this industry for the 1960 survey will be found at the end of this section.

TABLE 48. Principal Statistics, Orthopaedic and Surgical Appliance Manufacturers, 1956 - 1960

Basis: Standard Industrial Classification in use both prior to, and in, 1960 (no change in 1960).

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of fuel and electricity	Cost at plant of materials used	Value added by manufacture	Selling value of factory shipments
	number			dollars			
1956	36	367	939,361	31,322	1,014,114	1,599,645	2,737,409
1957	37	378	1,005,924	31,271	1,213,467	1,606,449	2,843,369
1958	36	350	997,322	28,509	863,888	1,741,009	2,624,405
1959							
Quebec	5	34	125,183	2,067	65,271	266,740	334,021
Ontario	16	254	705,086	18,941	666,212	1,178,251	1,844,598
Manitoba	5	18	39,975	2,865	40,766	56,099	99,796
British Columbia	6	17	63,222	2,284	34,929	48,138	85,443
Nova Scotia	}	4	76,530	1,880	55,852	118,745	177,209
New Brunswick							
Alberta ¹							
Canada	36	343	1,009,996	28,037	863,030	1,667,973	2,541,067
1960							
Quebec	6	35	144,742	2,323	79,910	247,625	329,490
Ontario	18	257	762,541	19,300	670,112	1,093,080	1,781,219
Manitoba	4	15	45,543	2,285	51,730	63,066	116,834
British Columbia	6	17	61,743	2,370	36,030	46,509	85,080
New Brunswick	}	3	79,556	1,858	54,305	107,115	162,571
Alberta ¹							
Canada	37	346	1,094,125	28,136	892,087	1,557,395	2,475,194

¹ New Brunswick - 1 and Alberta - 2.

TABLE 49. Inventories¹, 1960

Province	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
dollars				
Opening: ²				
Quebec	13,142	5,800	1,806	20,748
Ontario	225,995	77,523	203,711	507,229
Manitoba	8,872	200	1,464	10,536
British Columbia	12,788	37	323	13,148
New Brunswick	7,804	885	225	8,914
Alberta				
Canada	268,601	84,445	207,529	560,575
Closing: ¹				
Quebec	13,811	5,806	2,168	21,785
Ontario	221,767	68,579	213,928	504,274
Manitoba	7,537	533	1,378	9,448
British Columbia	12,093	37	152	12,282
New Brunswick	11,352	1,435	382	13,169
Alberta				
Canada	266,560	76,390	218,008	560,958

¹ Book value of all manufacturing² The opening inventory for 1960 differs from the closing inventory for 1959 because of the receipt of revised data and the removal of figures for firms which did not operate in 1960.

TABLE 50. Factory Shipments, 1959 and 1960

Product	1959		1960	
	Quantity	Selling value at factory	Quantity	Selling value at factory
		\$		\$
Artificial limbs	No. 1,294	384,485	1,432	448,231
Braces, orthopaedic:				
Spinal	" 2,815	140,689	3,168	151,938
Cervical	" 530	49,116	649	55,443
Leg	" 1,076	84,562	1,217	96,110
Knee	" }	125	" 125	1,370
Shoulder	" 3,112	49,664	" 1,791	15,312
Ankle, arm finger, foot, wrist and other braces, n.e.s.	" }		" 951	26,937
Supports:				
Arch	pr. 36,775 ¹	132,872 ¹	43,485	193,681
Cervical collars	No. 1,079	5,895	1,680	8,908
Orthopaedic (corsets)	pr. 17,816	145,700	11,599	116,324
Surgical, post natal and posture (belts)	No. 70,632	361,462	47,110	199,872
Orthopaedic and surgical supports, n.e.s.	" ..	71,271	" 1	1
Traction kits (sets):				
Cervical (head-halter type)	No. 2,030	12,913	2,116	17,982
Ankle and pelvic	" }			
Trusses	No. 29,293	153,711	25,515	136,250
Crutches	pr. 219	1,548	202	2,221
Elastic ankle, arm and knee supports	No. 150,135	43,520	1	1
Elastic hose (stockings)	" 83,573	152,010	1	1
Foot appliances, orthopaedic:				
Shoes	pr. 300	11,212	958	14,075
Foot appliances, orthopaedic, n.e.s. (insoles, medicated foot plasters, etc.)	1	1	1	1
Orthopaedic and surgical appliances, n.e.s. (knitted elastics, wheel chairs, stump socks, surgical tapes, etc.) .....	...	535,803 ¹	...	817,375
All other products (including knitted dish cloths, industrial tape, etc.)	}	204,634	}	121,881
Amount received in payment for work done on materials owned by others				
Total value of shipments .....	...	2,541,067	...	2,475,194

¹ Included in "Orthopaedic and surgical appliances, n.e.s."

TABLE 51. Imports of Orthopaedic and Surgical Appliances

Import class	Commodities imported ¹	1959		1960	
		Quantity	Value	Quantity	Value
		No.	\$	No.	\$
9053	Artificial limbs and parts, and materials for .....	...	135,366	...	156,368
4146	Crutches, or specially constructed staffs for cripples .....	..	39,102	...	36,468
9050	Orthopaedic appliances, corrective clothing, and similar equipment, n.o.p. ....	...	185,084	...	251,179
9144	Surgical trusses and suspensory bandages of all kinds, and abdominal supports .....	...	13,132	...	9,684
	Total value of imports .....	...	372,684	...	453,699

¹ These data are published monthly in "Trade of Canada-Imports" (Catalogue No. 65-007), which also shows the details of shipments from individual countries.

TABLE 52. Employees and their Earnings, by Provinces, 1959 and 1960

Province	Employees					Earnings		
	Supervisory and office employees		Production workers		Total	Supervisory and office employees	Production workers	Total
	Male	Female	Male	Female				
1959	number					dollars		
Quebec	7	4	20	3	34	50,908	74,275	125,183
Ontario	40	27	68	119	254	282,335	422,751	705,086
Manitoba	5	1	7	5	18	17,884	22,091	39,975
British Columbia	8	3	5	1	17	41,451	21,771	63,222
Nova Scotia	5	4	11	—	20	35,861	40,669	76,530
New Brunswick								
Alberta								
Canada	65	39	111	128	343	428,439	581,557	1,009,996
1960								
Quebec	7	5	19	4	35	62,356	82,386	144,742
Ontario	43	28	73	113	257	326,337	436,204	762,541
Manitoba	4	1	5	5	15	23,888	21,655	45,543
British Columbia	8	3	5	1	17	41,345	20,398	61,743
New Brunswick	4	4	12	2	22	37,061	42,495	79,556
Alberta								
Canada	66	41	114	125	346	490,987	603,138	1,094,125

TABLE 53. Production Workers, by Months, 1959 and 1960

Month	1959		1960	
	Male	Female	Male	Female
	number			
January	114	118	110	127
February	114	114	110	128
March	113	108	109	125
April	114	117	111	122
May	106	124	114	114
June	107	130	112	121
July	104	133	116	118
August	102	132	116	123
September	112	134	114	128
October	116	139	112	131
November	112	141	112	122
December	110	137	113	127
Monthly average ¹	110	127	112	124

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$50,000 and over. For establishments reporting value of shipments between \$25,000 and \$50,000, quarterly figures only were collected and the employment figure reported at the end of each quarter was used as the monthly employment figure for that quarter. For establishments reporting value of shipments of less than \$25,000, no data on the number of workers were collected. The average was estimated by using the change in value of shipments to arrive at the value of the payroll which was then used in conjunction with estimated average earnings to arrive at the number of workers. This estimated number of workers was then included in each month's total.

TABLE 54. Principal Statistics, Grouped by Shipment Size, 1959 and 1960

Shipment size	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			
1959						
Under 10,000	12	16	38,058	2,712	19,442	64,769
10,000 to 24,999	4	17	39,682	2,747	37,857	64,722
25,000 " 49,999	8	41	140,474	4,837	75,734	300,623
50,000 " 99,999	7	51	194,615	4,709	134,403	446,114
100,000 and over	5	218	597,167	13,032	595,594	1,664,849
Totals	36	343	1,009,996	28,037	863,030	2,541,067
1960						
Under 10,000	11	13	35,891	1,960	18,720	56,778
10,000 to 24,999	6	20	57,361	3,841	51,173	94,156
25,000 " 49,999	6	27	107,418	3,343	58,425	229,134
50,000 " 99,999	8	60	219,483	3,667	162,669	520,132
100,000 and over	6	226	673,972	15,325	601,100	1,574,994
Totals	37	346	1,094,125	28,136	892,087	2,475,194

TABLE 55. Principal Statistics by Type of Ownership, 1959 and 1960

Type of ownership	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			
1959						
Individual ownership	19	56	179,664	8,459	125,071	373,448
Partnership	5	27	88,945	2,690	36,080	157,169
Incorporated company	12	260	741,387	16,888	701,879	2,010,450
Totals	36	343	1,009,996	28,037	863,030	2,541,067
1960						
Individual ownership	18	47	176,129	6,758	117,431	386,387
Partnership	4	17	57,896	1,602	20,067	107,435
Incorporated company	15	282	860,100	19,776	754,589	1,981,372
Totals	37	346	1,094,125	28,136	892,087	2,475,194

TABLE 56. Principal Statistics by Number of Employees per Establishment, 1959 and 1960

Employee size	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			
1959						
Under 5 employees	18	38	107,046	6,148	60,576	228,314
5 to 14 employees	14	99	348,300	9,055	218,224	790,360
15 and over	4	206	554,650	12,834	584,230	1,522,393
Totals	36	343	1,009,996	28,037	863,030	2,541,067
1960						
Under 5 employees	19	36	122,387	6,594	80,850	256,824
5 to 14 employees	14	108	417,148	8,679	252,322	869,781
15 and over	4	202	554,590	12,863	558,915	1,348,589
Totals	37	346	1,094,125	28,136	892,087	2,475,194

TABLE 57. Consumption of Fuel and Electricity, 1959 and 1960

Kind	1959		1960	
	Quantity	Cost at plant \$	Quantity	Cost at plant \$
1. Establishments reporting commodity detail: ¹				
Bituminous coal (a) From Canadian mines	—	—	—	—
(b) Imported	ton 36	598	35	577
Sub-bituminous coal (from Alberta mines only)	—	—	—	—
Anthracite coal	—	—	—	—
Lignite coal	—	—	—	—
Coke (for fuel only)	—	—	—	—
Gasoline (including gasoline used in cars and trucks)	Imp. gal. 14,601	5,595	8,202	3,481
Fuel oil (including kerosene or coal oil)	" 38,197	4,922	39,898	5,357
Wood	—	—	—	—
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal. 18	54	154	65
(b) Other manufactured gas	—	—	—	—
(c) Natural gas	1000 cu. ft. 2,002	960	2,365	1,225
Steam purchased	—	—	—	—
Other fuel	—	—	—	—
Electricity purchased (include service charge in cost)				
(a) For lighting and motors	kwh. 362,236	5,934	369,344	6,240
(b) For other purposes	—	—	—	—
2. Establishments reporting group detail: ²				
Cost of fuel .....	...	2,789	...	4,328
Cost of electricity .....	..	1,726	...	2,432
3. Estimate for establishments for which no data were collected: ³				
Cost of fuel and electricity .....	...	5,459	...	4,431
4. All establishments:				
Total cost of fuel and electricity .....	...	28,037	...	28,136

¹ Establishments generally reporting value of shipments of \$50,000 and over.² Establishments generally reporting value of shipments between \$25,000 and \$50,000.³ Establishments generally reporting value of shipments of less than \$25,000.

Orthopaedic and Surgical Appliance Manufacturers, 1960

Name of firm	Address
New Brunswick:	
Menzies, A.R., & Sons, Ltd.	33 Rookwood Ave., Fredericton
Quebec:	
Duckett, J.A.	3651 Park Ave., Montreal 18
Hanger, J.E., of Montreal, Ltd.	4259-4263 St. Catherine St. W., Montreal 6 (Westmount)
Martin, C. Jr. & Cie.	4338 St. Denis St., Montreal 18
Phenix, J.R.	376 St. Joseph Blvd., E., Montreal 14
Protheses Orthopediques Inc.	186 Chemin Ste. Foy, Quebec
Winkley Company, The	48-50 Craig St. E., Montreal 18
Ontario:	
Acme Artificial Limb Co.	2184 Dundas St. W., Toronto 3
Bradlee Orthopedics and Artificial Limbs	96 Gerrard St., W., Toronto 2
Camp, S.H. & Co. of Canada Ltd.	P.O. Box 495, Trenton
Chamberlain, George L.	295 King St., W., Toronto 2 B
Dew Superior Artificial Limbs	127 Queen St. E., Toronto 2
Hanger, J.E., of Canada Ltd.	38 Camden St., Toronto 2 B
Longdon, F., & Co. (Canada) Ltd.	624 King St. W., Toronto 2 B
Miracle Arch Co., The	20 Arkell Ave., Hamilton
National Rehabilitation Appliances	137 Wellington St. W., Toronto 1
Orthopaedic Services	440 Main St., Hamilton
Orthopedic Appliance Research Ltd.	2191 Gerrard St. E., Toronto 13
Orthopedic and Sanitary Supply Centre	892 Bathurst St., Toronto 4
Ottawa Truss Co. of Canada, Ltd.	302 Sparks St., Ottawa 4
Ottawa Truss Co. of Canada, Ltd. (Toronto plant)	302 Sparks St., Ottawa 4
Scholl Manufacturing Co., Ltd., The	174 Bartley Drive, Toronto 16
Smith Manufacturing Co.	455 King St., Preston
Truppe Artificial Limbs	23 Main St., Lambeth
Windsor Orthopaedic Appliances	1537 Howard St., Windsor
Manitoba:	
American Splint & Brace Co., The	939 Notre Dame Ave., Winnipeg 3
Anderson's House of Orthopedic Appliances	593 Sargent Ave., Winnipeg 3
Surgical Elastic Co.	52 Albert St., Winnipeg 2
Western Artificial Limb Factory	199 Main St., Winnipeg 1
Alberta:	
Calgary Artificial Limb Factory	605 First St. E., Calgary
Edmonton Artificial Limb Co., Ltd.	10133-99th St., Edmonton
British Columbia:	
Cradle Arch Ltd.	151 East Eighth Ave., Vancouver 10
Heaney Orthopedic and Prosthetics, Tyler Clinic	2675 West Broadway, Vancouver 8
Hodgson Company	941 Hornby St., Vancouver 1
Pentland, J.A., Ltd.	2963 Cambie St., Vancouver 9
Romalis, Wm. & Associates	1396 Broadway Ave. W., Vancouver 9
Storm, Frank Artificial Limbs	741 Lonsdale Ave., North Vancouver

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