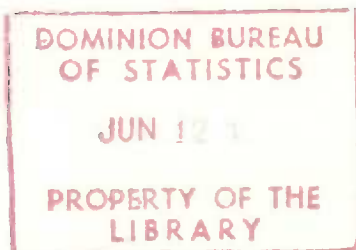


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# THE MISCELLANEOUS INDUSTRIES

## 1956



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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries or provinces which they comprise.

Volume II consists of the following parts, the first two of which deal with manufacturing as a whole and the balance with the major manufacturing groups.

- I — General Review of the Manufacturing Industries, \$1.50
- II — The Manufacturing Industries of Canada, (7 sections, as follows:)
  - Section A. Summary for Canada, 25¢
  - Section B. Atlantic Provinces, 50¢
  - Section C. Quebec, 25¢
  - Section D. Ontario, 25¢
  - Section E. Prairie Provinces, 40¢
  - Section F. British Columbia, 25¢
  - Section G. The Manufacturing Industries of Canada,  
Regional Distribution, 75¢
- III — Foods and Beverages
- IV — Tobacco and Tobacco Products
- V — Rubber Products
- VI — Leather Products
- VII — Textile Mills
- VIII — Knitting Mills
- IX — Clothing
- X — Wood and Paper Products
- XI — Printing Trades
- XII — Iron and Steel Products
- XIII — Transportation Equipment
- XIV — Non-ferrous Metal Products
- XV — Electrical Apparatus and Supplies
- XVI — Non-metallic Mineral Products
- XVII — Products of Petroleum and Coal
- XVIII — Chemicals and Allied Products
- XIX — Miscellaneous Manufactures

The present report belongs in Part XIX, Miscellaneous Manufactures. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

- A — The Button, Buckle and Fastener Industry, 25¢
- B — The Broom, Brush and Mop Industry, 25¢
- C — The Musical Instrument Industry, 25¢
- D — The Sporting Goods Industry, 25¢
- E — The Miscellaneous Industries, 25¢

# THE MISCELLANEOUS INDUSTRIES

1956

The Standard Industrial Classification adopted by the Bureau in 1949 has as one of its major manufacturing divisions a group entitled "Miscellaneous Industries". This group differs very little from the group of the same name in our former classification and like it is comprised of relatively small, unrelated industries.

This industrial group reported a record level of operations in 1956. Factory selling value of products shipped by the industries reached an all-time high of \$326,580,013. This total represents an increase of 15.3 per cent over the previous high of \$283,147,866 established in 1955 and an increase of 29.4 per cent over the \$252,306,085 worth of goods shipped in 1954.

Employment was given to 33,432 persons in 1956. This increase of 1,921 persons or 6.1 per cent over 31,511 persons in the previous year was accompanied by a 12.4 per cent rise in payroll figures from \$89,239,630 to \$100,348,480. Materials and supplies used in manufacturing operations in 1956 cost \$138,869,722 while in 1955 their cost was \$114,448,353, showing a rise of \$24,421,369 or 21.3 per cent. Fuel and electricity consumed in the same two years revealed an increase of 12.1 per cent from \$3,665,780 in the earlier year to \$4,109,544 in the later. The industrial group was comprised of 1,556 establishments in 1956 compared with 1,524 establishments in 1955.

Ontario was the leading province in the group in 1956 and contributed 63.2 per cent of the value of factory shipments while Quebec followed with 29.2 per cent. Of the 33,432 employees, 20,174 or 60.3 per cent were in Ontario establishments and 10,526 or 31.5 per cent were in those of Quebec. These two provinces have consistently dominated the activity of the group.

Beginning with 1954, information on the value of year end inventory holdings at plant and plant warehouses is being collected as part of the Annual Census of Industry. This data was formerly collected by a separate survey. The summarized results for the miscellaneous industries for the year under review will be found in Table 3.

Up until 1950, it was the practice of the Bureau to issue separate annual reports on four only of the industries comprising the group, namely; Brooms, brushes and mops; Buttons, buckles and fasteners; Musical instruments; and Sporting goods. The remaining industries were not made the subject of separate reports mainly on account of their size and, consequently, the small amount of publishable statistical information concerning them.

In recent years, however, these industries have experienced an expansion which is expected to continue. In consideration of their growth and the interest now manifest in many of them, this publication concerning them was initiated with a report covering their 1950 operations. It deals with twenty diverse industries as well as the combined principal statistics of the entire group and is published annually. Separate reports continue to be published on the four industries specifically mentioned in the preceding paragraph:

The industries dealt with in this report and the pages on which they will be found are as follows:

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**Note:** The commodity figures shown for the industries in this publication are not necessarily Canadian totals for the items specified. It is not unusual for a commodity to be produced as a secondary product in two or more industries. For total Canadian figures reference should be made to the appendix to the annual report entitled "General Review of the Manufacturing Industries of Canada".

TABLE 1. Principal Statistics of the Miscellaneous Industries Group, 1926-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1926 .....	393	10,032	11,309,121	581,014	18,061,371	22,939,666	41,582,051
1929 .....	421	10,786	12,457,989	524,317	22,495,351	28,188,068	51,207,736
1933 .....	459	8,351	7,810,976	466,678	9,497,751	14,174,498	24,138,927
1937 .....	545	11,699	11,936,704	651,462	17,792,121	22,807,498	41,251,081
1939 .....	566	12,280	13,045,929	576,340	18,308,810	24,508,056	43,393,206
1942 .....	657	22,474	27,202,456	1,226,613	49,292,782	46,918,549	97,437,944
1945 .....	692	24,024	37,187,275	1,403,334	83,549,139	59,571,126	144,523,599
1948 .....	814	22,315	40,906,054	1,598,001	48,007,617	75,510,756	125,116,374
1949 .....	893	26,401	51,147,475	1,985,068	59,778,187	94,600,066	156,363,321
1950 .....	1,007	27,219	56,409,875	2,214,533	67,469,334	99,628,735	169,312,602
1951 .....	1,173	28,756	66,908,755	2,612,594	87,292,415	120,899,546	210,804,555
1952 .....	1,313	29,833	74,133,582	2,867,401	87,550,232	135,203,233 <sup>2</sup>	225,620,866
1953 .....	1,350	32,223	85,954,495	3,051,957	103,467,901	154,763,033 <sup>2</sup>	261,282,891
1954 .....	1,360	31,071	85,748,818	3,354,557	102,179,368	149,157,222	252,306,085
1955							
Canada .....	1,524	31,511	89,239,630	3,665,780	114,448,353	164,876,649	283,147,866
Newfoundland .....	3	38	77,246	8,055	99,511	111,791	210,508
Nova Scotia .....	16	68	184,812	53,061	105,119	293,862	454,042
New Brunswick .....	14	390	994,401	80,351	1,221,030	1,749,655	3,102,172
Quebec .....	483	10,081	25,813,324	980,530	35,392,182	46,651,758	83,013,339
Ontario .....	763	18,819	56,067,370	2,164,696	71,552,754	104,764,146	178,628,258
Manitoba .....	59	680	1,657,008	97,363	2,733,208	3,138,238	5,965,421
Saskatchewan .....	11	54	148,484	14,722	119,178	336,230	472,322
Alberta .....	46	332	1,013,698	69,023	642,708	2,295,339	2,983,541
British Columbia .....	129	1,049	3,283,287	197,979	2,582,663	5,535,630	8,318,263
1956							
Canada .....	1,556	33,432	100,348,480	4,109,544	138,869,722	187,988,792	326,580,013
Newfoundland .....	4	38	97,128	8,158	115,294	143,026	261,314
Nova Scotia .....	15	71	208,730	54,176	103,898	321,846	467,956
New Brunswick .....	14	374	1,023,148	90,302	1,328,059	1,773,475	3,174,211
Quebec .....	479	10,526	28,718,114	1,128,187	43,981,716	51,884,587	95,511,715
Ontario .....	791	20,174	63,125,828	2,419,589	84,922,345	121,707,225	206,325,242
Manitoba .....	59	723	1,950,837	105,156	3,730,039	3,649,618	7,391,079
Saskatchewan .....	12	60	180,371	16,476	169,833	306,299	496,753
Alberta .....	50	378	1,358,461	89,309	1,248,516	2,450,290	3,768,737
British Columbia .....	132	1,088	3,685,863	198,191	3,270,022	5,752,426	9,183,003

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".

TABLE 2. Principal Statistics of the Industries Comprising the Miscellaneous Industries Group, 1956

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
	No.	No.	\$	\$	\$	\$	\$
Artificial flowers and feathers ..	40	480	886,218	27,148	1,043,393	1,510,570	2,556,704
Brooms, brushes and mops .....	104	2,103	5,397,241	192,233	8,608,934	10,085,259	18,641,759
Buttons, buckles and fasteners ..	47	1,555	4,420,935	140,743	6,005,793	6,603,000	13,129,630
Candles .....	15	232	681,192	50,805	1,245,053	1,626,793	2,789,956
Clocks, watches and watch cases ..	33	1,119	3,638,944	56,180	7,825,135	7,953,540	15,744,711
Fountain pens and pencils .....	18	1,103	3,042,807	82,465	5,554,392	7,154,410	12,487,690
Hair goods, animal and human ...	13	107	314,089	9,981	836,406	551,780	1,424,209
Ice, artificial .....	52	461	1,439,031	473,131	243,612	2,892,516	3,606,992
Instruments and related products ..	77	5,565	21,867,834	507,292	25,361,290	43,851,464	67,875,442
Lamps, electric and lamp shades ..	71	1,332	3,072,033	107,549	6,037,658	5,341,414	11,433,019
Models and patterns (except paper) .....	75	568	2,270,835	67,685	908,664	3,323,338	4,276,174
Musical instruments .....	25	1,305	3,940,907	189,889	4,304,230	7,838,170	12,284,891
Ophthalmic goods .....	33	1,031	2,836,935	89,474	2,714,859	3,511,543	6,152,081

**TABLE 2. Principal Statistics of the Industries Comprising the Miscellaneous Industries Group, 1956 - Concluded**

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
	No.	No.	\$	\$	\$	\$	\$
Orthopaedic and surgical ap- pliances .....	36	367	939,361	31,322	1,014,114	1,599,645	2,737,409
Pipes, lighters and other smo- kers' supplies .....	13	174	520,472	22,054	1,492,264	1,420,881	2,716,712
Plastics products .....	177	4,779	12,968,618	687,587	29,221,782	27,676,435	56,537,054
Signs, electric, neon and other	329	3,324	11,420,335	601,222	9,890,036	18,377,732	28,874,077
Sporting goods .....	95	1,979	5,439,728	208,219	6,105,140	9,338,370	15,528,074
Stamps and stencils, rubber and metal .....	71	952	3,008,218	86,502	1,921,272	4,357,834	6,336,853
Statuary, art goods and novelties	108	798	1,355,547	78,232	1,804,792	2,870,232	4,739,696
Toys and games .....	67	1,741	4,028,376	206,603	8,298,927	7,328,702	15,444,080
Typewriter supplies .....	9	430	1,260,265	41,706	2,883,424	2,899,091	5,810,198
Umbrellas .....	9	138	284,138	9,116	609,703	443,399	1,070,853
Miscellaneous .....	39	1,789	4,814,421	142,406	4,938,849	9,432,674	14,381,749
<b>Total .....</b>	<b>1,556</b>	<b>33,432</b>	<b>100,348,480</b>	<b>4,109,544</b>	<b>138,869,722</b>	<b>187,988,792</b>	<b>326,580,013</b>

**TABLE 3. Inventories<sup>1</sup> of the Miscellaneous Industries Group, 1956**

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
	\$	\$	\$	\$
<b>Opening:<sup>2</sup></b>				
Newfoundland .....	37,440	1,800	14,100	53,340
Nova Scotia .....	32,708	16,350	3,400	52,458
New Brunswick .....	432,385	257,887	398,434	1,088,706
Quebec .....	9,445,114	3,873,047	4,355,032	17,673,193
Ontario .....	17,641,283	9,466,278	14,289,215	41,396,776
Manitoba .....	527,463	77,077	183,899	788,439
Saskatchewan .....	37,794	9,749	12,104	59,647
Alberta .....	148,931	52,671	21,706	223,308
British Columbia .....	556,620	176,248	232,175	965,043
<b>Canada .....</b>	<b>28,859,738</b>	<b>13,931,107</b>	<b>19,510,065</b>	<b>62,300,910</b>
<b>Closing:</b>				
Newfoundland .....	22,142	1,590	19,474	43,206
Nova Scotia .....	32,963	23,656	8,055	64,674
New Brunswick .....	476,142	252,584	421,362	1,150,088
Quebec .....	11,562,713	4,599,092	5,111,762	21,273,567
Ontario .....	19,281,895	10,236,068	16,243,342	45,761,305
Manitoba .....	621,940	69,148	285,562	976,650
Saskatchewan .....	50,394	1,931	15,777	68,102
Alberta .....	172,008	27,779	65,976	265,763
British Columbia .....	630,553	164,620	281,439	1,076,612
<b>Canada .....</b>	<b>32,850,750</b>	<b>15,376,468</b>	<b>22,452,749</b>	<b>70,679,967</b>

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

2. The opening inventory for 1956 differs from the closing inventory published for 1955 because of the receipt of revised data, the inclusion of new firms and the removal of figures for firms which did not operate during 1956.

### The Artificial Flowers and Feathers Industry

The level of operations in this industry remained practically the same in 1956 as in 1955 with 40 establishments having factory shipments valued at \$2,556,704 in 1956 and 44 establishments with factory shipments valued at \$2,530,755 in the previous year. Employment was given to 480 persons,

12 more than the year before while the payroll decreased from \$904,149 to \$886,218, a drop of 2.0 per cent. Materials used cost \$1,043,393 in 1956 showing a slight increase over the cost of materials used in 1955 which was \$993,903.

The industry is practically confined to the provinces of Ontario and Quebec. Quebec, with 24 establishments, accounted for 67.1 per cent of the persons engaged in the industry and 67.8 per cent of its shipments. Ontario accounted for the balance of employment and shipments except for the contribution of one firm in each of Manitoba and Alberta.

Artificial flowers, the principal item of production, were shipped in the amount of \$1,504,941 in 1956. Second in importance were feathers and feather trimmings which were shipped to the extent of \$357,656. For further details of products, see Table 5.

TABLE 4. Principal Statistics, Representative Years, 1927-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1927 .....	7	166	127,924	654	161,121	261,666	423,441
1932 .....	4	99	57,640	527	40,204	76,940	117,671
1937 .....	19	350	201,689	1,566	170,919	354,405	526,890
1939 .....	23	490	314,374	3,284	342,485	450,620	796,389
1942 .....	26	657	521,455	8,519	450,047	723,398	1,181,964
1945 .....	30	689	706,074	8,193	796,486	1,293,186	2,097,865
1946 .....	35	749	827,817	10,269	867,783	1,440,324	2,318,376
1947 .....	41	687	796,704	12,351	680,430	1,250,543	1,943,324
1948 .....	36	710	888,196	16,427	888,275	1,444,032	2,348,784
1949 .....	38	677	915,935	12,761	1,133,009	1,570,532	2,716,302
1950 .....	38	709	957,887	12,195	960,508	1,698,243	2,660,946
1951 .....	39	676	996,264	12,912	1,050,488	1,676,903	2,740,303
1952 .....	42	573	875,051	13,390	1,054,829	1,607,121 <sup>2</sup>	2,675,340
1953 .....	45	516	926,600	18,292	1,076,417	1,665,843 <sup>2</sup>	2,760,552
1954 .....	43	503	931,675	27,228	952,970	1,596,385	2,558,565
1955							
Canada .....	44	468	904,149	28,883	993,903	1,508,317	2,530,755
Quebec .....	27	315	607,155	19,415	669,998	892,605	1,639,325
Ontario and other provinces <sup>3</sup> .....	17	153	296,994	9,468	323,905	615,712	891,430
1956							
Canada .....	40	480	886,218	27,148	1,043,393	1,510,570	2,556,704
Quebec .....	24	322	589,929	15,084	804,918	938,636	1,734,396
Ontario and other provinces <sup>3</sup> .....	16	158	296,289	12,064	238,475	571,934	822,308

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. Other provinces include - Manitoba 1 and Alberta 1.

TABLE 5. Factory Shipments 1955 and 1956

Products	1955	1956
	Selling value at factory	Selling value at factory
	\$	\$
Artificial flowers:		
Silk, velvet and cotton .....	726,529	634,659
Crepe paper .....	164,793	306,527
Other .....	561,812	563,755
Feathers, all kinds .....	157,079	259,244
Feather trimmings .....	174,207	98,412
Wreaths, decorative and memorial .....	297,586	323,714
All other products .....	448,749	370,392
<b>Total value of products .....</b>	<b>2,530,755</b>	<b>2,556,704</b>

## The Candle Industry

In 1956 reports were received from 15 establishments engaged primarily in the manufacture of candles. Twelve of these establishments were located in Quebec and one in each of Ontario, Saskatchewan and British Columbia. As indicated by the number of establishments, Quebec occupied the leading position in the industry with a high percentage of the number of persons given employment and of the value of goods shipped.

The factory shipments made by the industry in 1956 were valued at \$2,789,956, which represents an increase of 6.3 per cent from \$2,625,924 in the previous year. Employment was afforded to 232 persons, 8 more than in 1955, while the payroll at \$681,192 was higher by \$114,234 or 21.5 per cent. The cost of materials used was \$1,245,053, an increase of 9.4 per cent over the earlier year's figure.

Religious candles is the principal commodity manufactured by the industry. In 1956 the shipments

of these were as follows: 7-day lights, 131,859 dozen valued at \$888,861; candles, 853,235 pounds at \$688,204; votive lights, all kinds, 1,935,810 dozen at \$557,335. Other main items in order of importance were coloured and fancy candles including wax novelties, 642,030 dozen at \$423,723 and household candles, 961,794 pounds at \$153,792.

The chief material was paraffin of which 1,919,726 pounds refined and 4,952,526 pounds crude were used, costing \$176,136 and \$385,347 respectively. Beeswax was consumed in the amount of 322,629 pounds worth \$218,203. The consumption of stearic acid was 325,452 pounds costing \$49,329.

Imports of paraffin wax candles amounted to 312,683 pounds valued at \$100,896; other candles to 176,560 pounds valued at \$61,874. Exports of candles were 19,291 pounds with a value of \$9,499.

TABLE 6. Principal Statistics, Representative Years, 1928-1956

Year	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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1928 .....	11	75	67,255	5,598	217,742	237,512	460,852
1933 .....	12	109	115,035	7,428	154,553	202,856	364,837
1939 .....	12	141	165,961	8,734	249,638	406,694	665,066
1942 .....	12	187	225,407	13,790	498,569	520,123	1,032,482
1945 .....	12	252	326,739	21,535	666,462	829,190	1,517,187
1947 .....	12	267	419,672	25,502	1,094,938	1,110,564	2,231,004
1949 .....	14	278	461,873	31,063	828,911	1,260,764	2,120,738
1950 .....	13	228	427,644	26,076	853,846	1,172,015	2,051,937
1951 .....	13	230	439,841	31,590	964,541	1,237,162	2,233,293
1952 .....	12	210	452,141	30,159	909,497	1,290,086 <sup>2</sup>	2,229,742
1953 .....	14	231	508,364	34,393	941,195	1,489,068 <sup>2</sup>	2,464,656
1954 .....	15	244	592,266	34,812	1,102,580	1,575,552	2,700,401
1955 .....	15	224	566,958	37,228	1,137,845	1,470,731	2,625,924
1956 .....	15	232	681,192	50,805	1,245,053	1,626,793	2,789,956

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".

TABLE 7. Factory Shipments, 1955 and 1956

Products	Unit of measure	1955		1956	
		Quantity	Selling value at factory	Quantity	Selling value at factory
			\$		\$
Candles and cierges:					
1. Household, coloured, fancy, etc.:					
(a) Household candles, paraffin wax .....	lb.	895,812	137,009	961,794	153,792
(b) Coloured and fancy, including wax novelties	doz.	591,345	384,888	642,030	423,723
2. Church, chapel, synagogue, etc.:					
(a) Beeswax candles and cierges .....	lb.	490,897	504,586	482,573	528,327
(b) Composition candles and cierges .....	lb.	366,214	136,436	370,662	159,877
(c) 7-day lights, bees wax and vegetable oils ...	doz.	15,284	237,655	16,348	263,023
(d) 7-day lights, composition, other .....	"	101,223	585,723	115,511	625,838
(e) Votive lights, all kinds .....	"	2,094,566	594,021	1,935,810	557,335
3. Incense .....	lb.	1,334	1,323	1	1
4. Incensed charcoal .....	"	1	1	—	—
5. All other products .....	—	—	44,283	—	78,041
<b>Total value of products .....</b>	—	—	<b>2,625,924</b>	—	<b>2,789,956</b>

1. Confidential — Included with "All other products".

## Clocks, Watches and Watch Cases

This industry is comprised of establishments primarily engaged in the manufacture of clocks and watches, including materials and parts for same. It includes establishments whose principal activity is assembling clocks and watches from purchased movements and watchcases of either own or other manufacture. The purchase of complete watches and the attachment of straps or bands thereto is not considered a manufacturing activity. In addition to clocks and watches, interval timers, spring wound and electric, unassembled movements and bracelets are among the products manufactured by these plants.

Clock and watch manufacturers were classified with the jewellery industry until 1947 at which time they were transferred to the scientific and professional equipment industry. In 1951 they were

removed from this latter industry and classified separately.

In 1956 reports were received from 33 establishments, 2 fewer than in 1955. Eighteen of the establishments were located in Quebec, 13 in Ontario and 2 in Manitoba. Shipments of goods in the later year were valued at \$15,744,711 compared with shipments worth \$14,299,124 in the earlier. Employment which stood at 1,107 in 1955 rose to 1,119 in 1956. Salary and wage payments were \$3,638,944 which was an increase of \$137,299 over those of 1955. The materials consumed in manufacture cost \$7,825,135 in 1956 compared with \$7,027,734 in 1955.

Information on production, imports and exports will be found in the Tables which follow.

TABLE 8. Principal Statistics, 1951-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1951 .....	29	1,185	2,991,396	35,174	5,777,790	4,778,441	10,591,408
1952 .....	31	1,032	2,853,417	33,103	5,162,619	5,839,870	11,035,592
1953 .....	34	1,190	3,498,817	38,180	7,103,175	5,528,274	12,669,689
1954 .....	35	1,106	3,372,014	50,446	6,110,485	6,133,062	12,238,697
1955							
Canada .....	35	1,107	3,501,645	52,343	7,027,734	6,945,639	14,299,124
Quebec .....	20	171	516,726	11,743	1,611,954	960,455	2,679,161
Ontario and Manitoba .....	15	936	2,984,919	40,600	5,415,780	5,985,184	11,619,963
1956							
Canada .....	33	1,119	3,638,944	56,180	7,825,135	7,953,540	15,744,711
Quebec .....	18	188	544,004	14,466	1,857,490	1,353,638	3,111,682
Ontario and Manitoba .....	15	931	3,094,940	41,714	5,967,645	6,599,902	12,633,029

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".

TABLE 9. Clocks, Watches and Watch Cases from all Industries, 1955 and 1956

Products	1955		1956	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	No.	\$	No.	\$
Clocks, electric, kitchen .....	387,101	1,682,262	314,157	1,033,616
Clocks, electric, alarm .....			159,127	597,626
Clocks, electric, other .....			108,491	658,567
Clocks, not electric, mantel and wall types .....	10,597	49,369	6,801	24,582
Clocks, not electric, other types .....	690,022	1,713,927	758,101	1,904,633
Watches, wrist .....	516,587	8,320,270	601,099	8,762,428
Watches, other .....	536,934	1,111,446	477,338	1,559,372
Watch cases .....	—	936,939	—	854,875
<b>Total</b> .....	—	<b>13,814,213</b>	—	<b>15,395,699<sup>1</sup></b>

1. Of the figure \$15,395,699 for 1956, shipments from the clock, watch and watch case industry alone total \$14,312,540. The balance of the industry total of \$15,744,711 is accounted for by other products, details of which may not be revealed.

TABLE 10. Imports of Clocks and Watches, and Parts

Articles imported	1955		1956	
	Quantity	Value	Quantity	Value
	No.	\$	No.	\$
Clocks and watches:				
Clocks .....	588,955	1,830,904	735,294	2,237,410
Clock movements, clock cases and clockwork mechanisms .....	—	168,144	—	191,012
Parts of clock movements or of clockwork mechanisms, finished or unfinished, not including plates .....	—	502,319	—	507,274
Springs of iron and steel, for use exclusively in the manufacture of clocks .....	—	4,549	—	7,693
Time recorders .....	—	246,243	—	214,972
Watches, over one jewel .....	—	1,611,783	—	1,327,541
Watches, one or no jewel .....			—	440,200
Watch cases and parts thereof, finished or unfinished .....	—	1,342,312	—	1,666,924
Watch actions, over one jewel .....	—	4,399,188	—	5,219,111
Watch actions, one or no jewel .....			—	202,048
Parts of watch movements, finished or unfinished .....	—	742,856	—	717,785

TABLE 11. Exports of Clocks and Watches, and Parts

Articles exported	1955		1956	
	Quantity	Value	Quantity	Value
	No.	\$	No.	\$
Clocks and parts .....	30,285	141,671	81,675	445,159
Watches and parts .....	219,044	550,974	173,643	586,662

### The Fountain Pens and Pencils Industry

This industry has grown from one comprised of three establishments with a million dollar output in 1926 to one of 18 establishments producing over twelve million dollars worth of goods in 1956. The greater part of this increase occurred during the war and immediate post-war years. A substantial portion of it was effected through increased exports, the peak year for exports being 1947 during which fountain pens, pencils and parts approximating four million dollars in value were exported.

In 1956 reports were received from 18 establishments located as follows: British Columbia 1, Ontario 9 and Quebec 8. These establishments shipped goods with a selling value at factory of \$12,487,690, gave employment to 1,103 persons who

were paid \$3,042,807 in salaries and wages, and consumed materials costing \$5,554,392.

Shipments of fountain pens, the industry's leading commodity, amounted to 203,631 dozen valued at \$3,078,991. Ball point pens (including liquid lead pencils) amounting to 1,107,485 dozen valued at \$2,874,609 ranked next in importance followed by black lead non-mechanical pencils which were shipped to the extent of 508,416 gross worth \$2,067,818.

Detailed information concerning production, imports and exports appears in Tables 13, 14 and 15 which follow.

TABLE 12. Principal Statistics, Representative Years, 1926-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1926 .....	3	185	211,885	4,778	373,255	705,404	1,083,437
1929 .....	6	364	433,174	5,635	954,917	1,889,332	2,849,884
1933 .....	10	334	364,265	16,155	633,843	801,982	1,451,980
1937 .....	9	545	566,478	17,277	950,914	1,245,869	2,214,060
1939 .....	9	591	629,831	18,289	909,776	1,214,442	2,142,507
1941 .....	10	686	777,782	24,382	1,231,840	1,857,674	3,113,896
1945 .....	10	1,315	1,892,220	31,242	2,627,912	4,253,146	6,912,300
1946 .....	10	1,462	1,963,245	36,836	4,223,043	5,696,637	9,956,516
1947 .....	10	1,426	2,326,043	39,034	3,522,684	5,344,271	8,905,989
1948 .....	12	1,248	2,148,127	45,149	2,682,930	3,695,583	6,423,662
1949 .....	15	1,221	2,328,167	43,221	2,972,524	6,657,965	9,673,710
1950 .....	18	1,133	2,421,360	51,220	3,435,080	5,385,851	8,872,151
1951 .....	20	1,122	2,669,218	59,009	4,239,976	5,515,281	9,814,266
1952 .....	20	1,080	2,670,986	60,585	3,755,188	5,657,987 <sup>2</sup>	9,473,760
1953 .....	17	1,169	2,903,588	66,904	4,115,356	6,514,328 <sup>2</sup>	10,696,588
1954 .....	17	1,066	3,039,155	75,913	4,219,594	6,584,899	10,702,089
1955							
Canada .....	17	1,040	2,713,923	78,496	5,164,258	6,053,119	11,458,847
Quebec and British Columbia .....	8	430	982,537	20,951	2,385,099	2,423,054	4,826,201
Ontario .....	9	610	1,731,386	57,545	2,779,159	3,630,065	6,632,646
1956							
Canada .....	18	1,103	3,042,807	82,465	5,554,392	7,154,410	12,487,690
Quebec and British Columbia .....	9	463	1,116,480	24,235	2,641,366	2,722,487	5,356,650
Ontario .....	9	640	1,926,327	58,230	2,913,026	4,431,923	7,131,040

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".

TABLE 13. Factory Shipments, 1955 and 1956

Products	Unit of measure	1955		1956	
		Quantity	Selling value at factory	Quantity	Selling value at factory
			\$		\$
Fountain pens .....	doz.	191,977	2,994,612	203,631	3,078,991
Fountain pen nibs, holders and other parts.....	—	—	188,955	—	337,438
Ball point pens (including liquid lead pencils) .....	doz.	946,728	2,452,264	1,107,485	2,874,609
Replacement cartridges for ball point pens .....	"	871,796	698,871	402,334	689,758
Non-mechanical pencils, black lead.....	gross	465,108	1,928,683	508,416	2,067,818
Non-mechanical pencils, other .....	"	133,762	810,168	176,224	1,026,926
Pencils, mechanical .....	doz.	115,685	556,149	108,402	480,149
Leads for pencils .....	—	—	125,618	—	151,056
Desk sets .....	—	—	178,790	—	249,565
Other stationery supplies .....	—	—	1,014,424	—	1,085,906
All other products .....	—	—	435,667	—	384,088
Amount received for repairs .....	—	—	74,646	—	61,386
Total value of products .....	—	—	11,458,847	—	12,487,690

TABLE 14. Imports of Pens, Pencils and Parts, 1955 and 1956

Articles Imported	Unit of measure	1955		1956	
		Quantity	Value	Quantity	Value
			\$		\$
Fountain pens except ball points .....	—	—	200,378	—	145,932
Ball point pens and parts .....	—	—	2,178,956	—	1,843,309
Pencils, lead, non-propelling, with stationary lead .....	gross	40,905	95,049	65,093	155,827
Pencils, lead, n.o.p. ....	—	—	242,742	—	231,761
Pens, n.o.p., penholders and rules of all kinds .....	—	—	207,121	—	235,857

TABLE 15. Exports of Pens, Pencils and Parts, 1955 and 1956

Articles Exported	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
Fountain pens including pen and pencil sets .....	—	742,915	—	814,774
Mechanical and propelling pencils .....	—	20,718	—	7,299
Pens and pencils and parts, n.o.p. ....	—	342,692	—	355,685

## The Hair Goods Industry

This industry consists of firms engaged in the processing of hair. In 1956 it was comprised of 13 establishments located as follows: Quebec 4, Ontario 6, Manitoba 1 and British Columbia 2. These establishments reported shipments having a value of \$1,424,209, gave employment to 107 persons who received \$314,089 in salaries and wages and consumed materials costing \$836,406. Comparable data for 1955 was 13 establishments, shipments valued at \$1,384,282, 102 employees,

\$297,776 in salaries and wages, and \$873,382 for materials.

The processing of animal hair in 1956 amounted to 313,620 pounds valued at \$776,206. Included in the shipments of goods in 1956 was \$85,295 worth of wigs, toupees and switches compared with \$70,593 worth in 1955. The balance of the value of shipments was accounted for by the amounts received for all other products and for repairs.

## Manufactured Ice

Establishments whose principal activity is the manufacture of ice for sale are classified to this industry. Several of these establishments derive some of their revenue from cold storage but firms whose main concern is the manufacture of ice for their own refrigeration systems are excluded. The harvesting and storage of natural ice is not considered a manufacturing operation and establishments so engaged are also excluded.

In 1956 the industry was comprised of 52 establishments located as follows: Nova Scotia 3, New Brunswick 2, Quebec 6, Ontario 26, Manitoba 1,

Saskatchewan 1, Alberta 2, and British Columbia 11. The value of factory shipments for the year amounted to \$3,606,992. Employment was given to 461 persons who were paid \$1,439,031 in salaries and wages. Materials costing \$243,612 were consumed in production.

The industry shipped 467,343 tons of artificial ice in 1956 which compares with 633,526 tons shipped in the previous year. Trade in this commodity was on a limited scale only, exports amounting to \$35,295 and imports to \$7,788.

TABLE 16. Principal Statistics, Representative Years, 1927 to 1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1927 .....	28	279	402,292	145,570	60,682	1,066,716	1,272,968
1929 .....	31	303	408,581	158,197	76,919	1,247,662	1,482,778
1931 .....	43	394	539,316	191,607	78,334	1,703,365	1,973,306
1933 .....	43	358	421,567	169,967	51,325	1,281,948	1,503,240
1937 .....	50	629	644,763	179,592	76,923	1,522,794	1,779,309
1939 .....	49	643	704,951	196,530	74,341	1,622,292	1,893,163
1941 .....	51	626	743,548	228,160	99,404	1,907,560	2,235,124
1945 .....	56	871	1,335,515	305,519	125,792	3,190,353	3,621,664
1947 .....	60	803	1,461,664	350,669	169,545	4,213,749	4,733,963
1949 .....	69	894	1,810,364	512,474	173,687	5,116,274	5,802,435
1950 .....	65	794	1,764,456	520,718	157,450	3,690,541	4,368,709
1951 .....	77	1,174	2,890,750	616,293	159,765	5,231,305	6,007,363
1952 .....	78	1,215	3,220,933	653,822	174,380	6,069,598 <sup>2</sup>	6,897,800
1953 .....	77	931	2,614,595	657,087	160,407	4,986,284 <sup>2</sup>	5,803,778
1954 .....	69	673	1,897,668	576,461	129,443	3,801,310	4,513,431

See footnotes at end of table.

TABLE 16. Principal Statistics, Representative Years, 1927 to 1956 - 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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
<b>1955</b>							
<b>Canada</b> .....	<b>66</b>	<b>550</b>	<b>1,525,372</b>	<b>524,673</b>	<b>183,129</b>	<b>3,194,479</b>	<b>3,908,327</b>
Nova Scotia and New Brunswick.....	4	42	123,288	82,548	7,129	281,439	371,468
Quebec .....	10	87	258,140	81,358	77,230	560,180	709,867
Ontario .....	36	315	839,753	231,574	65,055	1,664,906	1,968,959
Prairie Provinces .....	4	38	98,482	45,000	10,532	377,403	432,544
British Columbia .....	12	68	205,709	84,193	23,183	310,551	425,489
<b>1956</b>							
<b>Canada</b> .....	<b>52</b>	<b>461</b>	<b>1,439,031</b>	<b>473,131</b>	<b>243,612</b>	<b>2,892,516</b>	<b>3,606,992</b>
Nova Scotia and New Brunswick.....	5	41	126,248	77,933	11,603	230,278	320,300
Quebec .....	6	58	180,391	58,842	54,476	634,233	749,887
Ontario .....	26	262	845,748	219,788	114,142	1,347,514	1,683,052
Prairie Provinces .....	4	36	103,491	44,390	33,287	340,733	421,147
British Columbia .....	11	64	183,153	72,178	30,104	339,758	432,606

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".

#### Instruments and Related Products

This industry is the former Scientific and Professional Equipment Industry with the manufacturers of ophthalmic goods and surgical and orthopaedic appliances removed. The change was made in 1956 and is reflected in the following table in the reduction in the number of establishments and employment. Shipments and value added, however, increased over 1955 despite the removal of almost half the establishments. The removed establishments have been formed into the Ophthalmic Goods and the Orthopaedic and Surgical Appliances Industries, when pages known the statistics of which are to be found on pages 16, 17 and 18 of this report.

The newly constituted Instruments and Related Products Industry is comprised of establishments primarily engaged in manufacturing mechanical measuring and controlling instruments; dental, medical and surgical instruments and equipment; optical instruments and lenses; photographic equipment and supplies. There were 77 of these establishments in 1956 located provincially as follows:

Ontario 48, Quebec 21, British Columbia 5, Manitoba 2 and Alberta 1.

Factory shipments totalling \$67,675,442 were reported by the industry in the year under review. Employment was given to 5,565 persons who received \$21,867,834 in salaries and wages. Materials costing \$25,361,290 were used in manufacture.

While the commodities in this industry are collected in detail, the data must often be suppressed because too few establishments are involved to permit publication without divulging the figures of individual establishments. Such is the case for photographic supplies. However, it is usually possible to meet the confidence requirement and still publish useful figures by effecting appropriate combinations of the commodity data. Table 18 gives the commodities manufactured by the industry in as much detail and as meaningfully as possible.

TABLE 17. Principal Statistics, Representative Years, 1927 to 1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1927.....	21	1,104	1,421,809	61,278	3,616,016	4,138,134	7,815,438
1929.....	23	953	1,258,790	63,969	3,199,528	4,900,154	8,163,651
1933.....	27	809	946,850	67,784	1,580,612	2,853,585	4,501,961
1939.....	31	1,125	1,561,953	68,929	2,427,823	4,225,180	6,721,932
1941.....	42	3,853	5,218,575	198,066	8,791,848	7,256,603	16,246,517

See footnotes at end of table.

TABLE 17. Principal Statistics, Representative Years, 1927 to 1956 - 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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1944 .....	48	9,844	19,734,303	363,257	34,592,256	43,578,970	78,534,483
1946 .....	45	2,226	4,070,084	145,030	5,979,164	8,260,375	14,384,569
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 .....	100	4,174	12,035,607	345,768	14,150,895	22,499,682	36,996,345
1952 .....	116	5,396	16,627,838	377,970	15,554,628	28,059,219 <sup>2</sup>	43,991,817
1953 .....	128	6,642	22,107,369	429,594	22,010,622	38,588,436 <sup>2</sup>	61,028,652
1954 .....	139	6,755	22,519,467	523,231	22,824,964	38,070,305	59,743,340
1955							
Canada .....	151	6,514	22,957,061	569,441	22,789,219	40,149,398	63,223,468
Nova Scotia and New Brunswick .....	5	33	76,703	1,854	61,446	70,216	134,256
Quebec .....	35	1,777	6,061,678	98,026	5,339,583	9,187,975	14,634,366
Ontario .....	85	4,610	16,592,970	456,098	17,181,146	30,525,559	47,869,762
Manitoba .....	11	47	112,064	7,513	94,579	173,710	280,332
Alberta .....	5	21	51,477	2,188	77,243	103,225	176,662
British Columbia .....	10	26	62,169	3,762	35,222	88,713	128,090
1956							
Canada .....	77	5,565	21,867,834	507,292	25,361,290	43,851,464	67,875,442
Quebec .....	21	1,628	5,853,303	89,648	7,487,648	9,155,353	16,237,312
Ontario .....	48	3,907	15,928,644	412,055	17,796,272	34,571,722	51,430,271
Manitoba .....	2	11	34,806	2,083	7,031	37,293	47,649
Alberta .....	1	5	9,630	522	64,287	30,543	94,352
British Columbia .....	5	14	41,451	2,984	6,052	56,553	65,858

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".

TABLE 18. Factory Shipments, 1956

Products	1956 Factory shipments	
	Quantity	Value
		\$
Thermometers, industrial and laboratory .....	No. 38,794	444,394
Thermometers, other .....	" 549,702	243,996
Pyrometers, thermocouples and accessories .....	" —	1,537,519
Temperature and hygrometric instruments and accessories, other .....	" —	7,668,087
Electric quantity instruments and accessories .....	" —	707,321
Pressure measuring instruments, gauges and accessories .....	" —	1,018,123
Flow and liquid level instruments and accessories .....	" —	1,235,892
Parking meters .....	" 6,409	585,338
Aircraft engine and flight instruments: aircraft and nautical navigational instruments and apparatus .....	" —	7,732,641
Control valves and regulators, except voltage .....	" —	2,435,984
Dental, surgical and medical instruments .....	" —	75,553
Optical instruments .....	" —	249,475
Photographic equipment and supplies .....	" —	1
All other scientific and professional equipment .....	" —	33,935,256
All other products .....	" —	1,683,354
Amount received for custom work and repairs .....	" —	8,322,509
Total .....	—	67,875,442

1. Confidential. Included with "all other scientific and professional equipment".

TABLE 19. Imports of Instruments and Related Products

Articles imported	1955		1956	
	Quantity	Value	Quantity	Value
	No.	\$	No.	\$
Photographic equipment and supplies:				
Cinematograph and motion picture cameras, equipped for motion picture production, and parts .....	—	121,832	—	140,019
Cameras and camera parts, n.o.p. ....	—	5,304,897	—	5,697,625
Camera parts, in the rough, for the manufacture of cameras .....	—	129,433	—	161,225
Camera lenses and shutters for the manufacture of cameras .....	—	256,996	—	394,669
Films, X-ray .....	—	1,897,670	—	2,377,915
Films, chemically prepared for photographers use .....	—	3,150,381	—	4,039,638
Films, hypersensitive or super-sensitive panchromatic, and infra-red films, unexposed, for aerial photography .....	—	24,641	—	19,061
Sensitized negative film, one and one eighth inch in width or over, for exposure in motion picture cameras .....	—	138,836	—	112,758
Photographic dry plates .....	—	173,483	—	197,248
Photoflash lamps .....	3,933,131	255,934	5,712,111	298,805
Photographic accessories, except cameras and parts, equipment used in developing, printing and finishing photographs; parts of all the foregoing .....	—	3,452,558	—	5,455,806
Instruments and apparatus:				
Chronometers and compasses, and parts, including cards, not made in Canada, for ships and aircraft .....	—	408,808	—	375,390
Cyclometers, pedometers, speedometers, and parts .....	—	251,156	—	232,485
Dental instruments; surgical needles; microscopes valued at not less than \$50 each, retail; parts .....	—	1,519,070	—	1,886,252
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 .....	—	5,747,604	—	5,608,886
Globes, geographical, topographical and astronomical .....	—	93,332	—	186,182
Optical, philosophical, photographic and mathematical instruments, n.o.p., and parts .....	—	4,261,421	—	5,458,413
Oven thermostats, automatic oven lighters and dual valves for gas stoves, and gas pressure regulators .....	—	94,219	—	87,992
Philosophical and scientific apparatus, for use by institutions, hospitals and schools .....	—	5,705,715	—	7,023,366
Thermometers, including clinical thermometers .....	—	1,139,106	—	1,343,589
Surgical instruments and parts .....	—	4,956,459	—	5,137,550
Artificial eyes for human use, and contact eye glasses or lenses .....	—	7,617	—	5,312
Artificial teeth, not mounted, and materials for the manufacture thereof .....	—	1,142,597	—	1,326,426

TABLE 20. Exports of Instruments and Related Products

Articles exported	1955		1956	
	Quantity	Value	Quantity	Value
	No.	\$	No.	\$
Cameras .....	1,263	157,522	1,766	252,669
Camera parts .....	—	41,208	—	13,706
Dental and surgical apparatus and instruments, and hospital equipment .....	—	694,626	—	1,026,293
Films, X-ray .....	—	143	—	309
Films, n.o.p. ....	—	1,913,445	—	2,398,706
Motion picture apparatus .....	—	16,787	—	16,880
Philosophical and scientific apparatus and instruments, n.o.p. ....	—	915,913	—	1,198,013

**Electric Lamps and Lamp Shades**

The manufacturers of electric lamps and lamp shades were classified to a separate industry for the first time in 1939. Prior to then the majority of them were to be found in the statuary and art goods industry with the remaining few in several other industries.

The industry has experienced substantial growth since 1939 as evidenced by the fact that gross value of production in that year was \$1,018,254 as compared with factory shipments of \$11,433,019 in 1956. In the earlier year the industry manufactured 167,159 electric lamps of all kinds as against 1,226,029 in the latter year. Lamp shade production for the same two years amounted to 411,216 and 1,821,477.

In 1956 reports were received from 71 establishments of which 35 were in Quebec, 29 in Ontario, 2 in Manitoba and 5 in British Columbia. Factory shipments made by these establishments were valued at \$11,433,019 compared with \$9,850,158 in 1955. Employment rose to 1,332 persons from the previous year's figure of 1,283 and salaries and wages increased from \$2,789,422 to \$3,072,033 over the two years. Cost of materials consumed was \$6,037,658 which compares with \$4,817,295 in 1955.

Table 22 which follows contains detailed information of the industry's products for 1955 and 1956.

**TABLE 21. Principal Statistics, Representative Years, 1939 to 1956**

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1939 .....	25	368	328,365	8,926	486,434	522,894	1,018,254
1941 .....	25	540	535,490	12,666	755,948	772,070	1,540,684
1942 .....	28	578	649,062	16,018	837,579	1,053,341	1,906,938
1943 .....	24	478	553,044	13,971	611,338	762,697	1,388,006
1945 .....	28	651	768,117	20,729	1,115,817	1,355,273	2,491,819
1946 .....	35	914	1,137,804	26,467	2,129,128	2,137,497	4,293,092
1947 .....	42	845	1,148,954	34,789	1,770,414	1,828,889	3,634,092
1948 .....	44	905	1,358,103	35,934	2,048,504	2,530,630	4,615,068
1949 .....	45	1,078	1,828,258	43,976	2,761,502	3,187,711	5,993,189
1950 .....	49	1,159	2,131,637	63,292	3,443,998	3,551,928	7,059,218
1951 .....	55	1,164	2,167,450	80,415	3,624,308	3,690,651	7,395,374
1952 .....	59	1,245	2,426,725	83,434	4,516,335	4,514,199 <sup>2</sup>	9,113,968
1953 .....	57	1,288	2,662,792	88,568	4,651,902	4,606,284 <sup>2</sup>	9,346,754
1954 .....	66	1,279	2,630,614	95,894	4,486,425	4,822,256	9,375,993
1955							
Canada .....	65	1,283	2,789,422	109,991	4,817,295	4,980,403	9,850,158
Quebec .....	33	641	1,249,596	44,363	2,618,986	2,270,627	4,930,491
Ontario .....	25	577	1,356,896	56,527	1,958,744	2,482,107	4,430,910
Manitoba and British Columbia .....	7	65	182,930	9,101	239,565	227,669	488,757
1956							
Canada .....	71	1,332	3,072,033	107,549	6,037,658	5,341,414	11,433,019
Quebec .....	35	654	1,445,908	39,322	3,236,187	2,400,097	5,644,258
Ontario .....	29	611	1,447,126	56,765	2,435,347	2,646,394	5,146,800
Manitoba and British Columbia .....	7	67	178,999	11,462	366,124	294,923	641,961

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".

TABLE 22. Factory Shipments, 1955 and 1956

Products	1955		1956	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	No.	\$	No.	\$
Lamps, electric:				
Floor .....	183,458	2,145,036	243,464	2,592,301
Table .....	619,681	3,539,713	694,741	4,117,382
Other .....	234,107	630,406	287,824	886,309
Lamp shades:				
Silk .....	166,644	356,890	151,435	322,684
Parchment .....	404,853	524,001	296,309	371,700
Plastic .....	978,232	1,270,073	519,200	401,629
Fibreglass .....			811,776	1,130,660
Other .....	19,942	56,500	42,757	50,677
Lamp and shade parts .....	—	54,054	—	115,984
Smoking sets .....	123,662	477,299	106,964	619,420
Novelties, all kinds .....	—	217,814	—	134,264
All other products .....	—	535,132	—	632,140
Amount received for custom work and repairs .....	—	43,240	—	57,869
<b>Total .....</b>	<b>—</b>	<b>9,850,158</b>	<b>—</b>	<b>11,433,019</b>

## Models and Patterns (Except Paper)

The Standard Industrial Classification which was adopted in 1949 classified to the group "Miscellaneous Manufactures" establishments whose principal products were models and patterns other than paper. These establishments, which under the former scheme of classification were found for the most part in the miscellaneous wood products industry, were transferred to "Miscellaneous Manufactures" in 1950 where they were formed into an industry entitled "Models and Patterns (Except Paper)".

The industry in 1956 consisted of 75 establishments distributed provincially as follows: Quebec 15, Ontario 53, Manitoba 1 and British Columbia 6.

These establishments reported factory shipments worth \$4,276,174. The payroll consisted of 568 employees who received \$2,270,835. Materials and supplies costing \$908,664 were consumed in manufacture. Comparable data for 1955 were 70 establishments, 387 employees, \$1,473,898 for salaries and wages, \$2,842,375 for value of factory shipments, and material cost \$475,261.

Patterns and models which account for most of the industry's output were reported to the extent of \$2,305,634 and \$2,802,482 in 1955 and 1956, respectively. Molds were reported to the value of \$1,251,679 in 1956. Sundry items account for the balances in the two years.

## Ophthalmic Goods

Prior to 1956 establishments engaged in grinding ophthalmic lenses and in manufacturing other ophthalmic goods were classified to the Scientific and Professional Equipment Industry. In 1956 these establishments were removed and grouped together to form the Ophthalmic Goods Industry.

In this first year there were 33 such establishments located as follows: Nova Scotia 1, New

Brunswick 3, Quebec 7, Ontario 19, Manitoba 1 and Alberta 2. The value of factory shipments amounted to \$6,152,081. The payroll consisted of 1,031 persons who received salary and wage payments of \$2,836,935. Materials used in manufacture cost \$2,714,859.

Details of shipments, imports and exports will be found in the tables which follow.

TABLE 23. Factory Shipments, 1956

Products	Factory shipments	
	Quantity	Value
		\$
Lenses for spectacles .....	No. 2,722,355	3,052,421
Spectacles complete .....	pr. 138,170	1,133,189
Sunglasses .....	" 1	1
All other ophthalmic goods .....	—	1,495,282
All other products .....	—	471,189
<b>Total</b> .....	—	<b>6,152,081</b>

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

TABLE 24. Imports of Ophthalmic Goods

Articles Imported	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
Spectacles and eye-glass frames, and parts, n.o.p. ....	—	2,597,510	—	3,038,753
Parts, unfinished, for the manufacture of spectacles and eyeglass frames .....	—	345,409	—	348,223
Lenses, glass, n.o.p. ....	—	292,157	—	259,729
Spectacles, eye-glasses and ground or finished spectacle or eye-glass lenses, n.o.p. ....	—	643,530	—	782,853

TABLE 25. Exports of Ophthalmic Goods

Articles exported	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
Goggles and spectacles and parts .....	—	60,156	—	45,490
Lenses of glass, rough or finished .....	—	312,479	—	422,085

### Orthopaedic and Surgical Appliances

Manufacturers of orthopaedic and surgical appliances were withdrawn from the Scientific and Professional Equipment Industry in 1956 to form a separate industry. This newly formed industry was comprised of 36 establishments located as follows: New Brunswick 1, Quebec 6, Ontario 15, Manitoba 6, Alberta 2 and British Columbia 6.

Factory shipments by the industry in the year under review were valued f.o.b. plant at \$2,737,409.

The payroll consisted of 367 persons who received salary and wage payments of \$939,361. Materials used in manufacture cost \$1,014,114.

Table 26 shows a detailed breakdown of the orthopaedic and surgical appliances shipped by Canadian manufacturers in 1956. Details of imports of these commodities into Canada during the year is given in Table 27.

TABLE 26. Factory Shipments, 1956

Products	1956 Factory shipments	
	Quantity	Value
		\$
Artificial limbs .....	No. 2,343	306,944
Trusses .....	" 40,011	184,210
Surgical belts .....	" 65,594	283,967
Arch supports .....	pr. 32,473	92,934
Orthopaedic corsets .....	" 16,068	109,869
Surgical supports, other .....	No. 166,837	242,100
Elastic stockings .....	" 106,379	145,775
Braces, spinal .....	" 2,289	122,908
Braces, other .....	" 4,894	117,809
All other surgical and orthopaedic appliances .....	—	559,332
All other products .....	—	571,561
<b>Total</b> .....	—	<b>2,737,409</b>

TABLE 27. Imports of Orthopaedic and Surgical Appliances

Articles Imported	1955		1956	
	Quantity	Value	Quantity	Value
		\$		\$
Artificial limbs and parts, and materials for .....	—	115,760	—	126,889
Appliances or boots for crippled or deformed foot or ankle ....	—	7,152	—	8,553
Spinal and other orthopaedic braces and parts thereof; materials, not mentioned elsewhere, for the manufacture of the fore- going .....	—	72,593	—	83,766
Surgical trusses and suspensory bandages of all kinds, and abdominal supports .....	—	13,334	—	4,152

### Pipes, Lighters and Other Smokers' Supplies

Prior to 1947 this industry was comprised of establishments manufacturing tobacco pipes as principal product. It was quite a small industry then with never more than 6 establishments and an annual value of production ranging from \$17,000 to \$162,000. In 1947 the industry was expanded to embrace flints, lighters and other smokers' supplies with a consequent increase in establishments to 13 and of output to approximately \$3,000,000.

In 1956 factory shipments by the industry were valued at \$2,716,712, an increase over the \$2,443,097 reported in 1955. Employment remained almost constant over the two years while there was an increase in salary and wage payments from

\$472,493 to \$520,472. The cost of materials and supplies amounted to \$1,492,264 in 1956 compared to \$1,165,152 in 1955. There were 13 establishments in 1956, the same as in the previous year.

Details of the products shipped by the industry must be suppressed in order to avoid disclosure of figures of individual establishments. However, it is possible to publish figures as assembled from all industries for most of the main commodities produced in the pipes, lighters and other smokers' supplies industry. These, for 1956 are as follows: 5,943 dozen pipes valued at \$61,007; cigarette lighters, 620,198 at \$1,022,309; flints for lighters, \$312,945; fluid for lighters, \$686,360.

## The Plastics Products Industry

Until 1946 establishments manufacturing primary plastics or plastics products were included with the miscellaneous chemical products industry. In 1946 these establishments were removed from this industry and formed into an industry entitled the plastics industry. The following year, 1947 the plastics industry was split into two industries, the first known as the primary plastics industry to which were classified establishments primarily engaged in manufacturing plastic materials in the form of sheets, rods, tubes, granules or liquid for use in further manufacture and the second called the plastics products industry, comprising establishments primarily engaged in moulding plastics for the trade and in manufacturing finished plastics products, not elsewhere classified.

It is important to note that the plastics products industry includes only those fabricators which manufacture from plastics the kinds of products not found elsewhere in the classification scheme. For example women's aprons (including those of plastics materials) are classified to the women's factory clothing industry and establishments producing women's plastic aprons as a principal product

would be included with this industry. Similarly, manufacturers of plastic toys would be classified to the toy industry, of plastic handbags to the miscellaneous leather industry where the commodity handbags is to be found, etc. Some production of these commodities will, of course, be found in the plastics products industry where they are produced as secondary or minor products by the establishments assigned to the industry on the basis of their more important items of manufacture.

In 1956 the industry was comprised of 177 establishments distributed provincially as follows: Nova Scotia 1, New Brunswick 2, Quebec 53, Ontario 98, Manitoba 5, Alberta 7 and British Columbia 11. These establishments shipped goods with a value f.o.b. plant of \$56,537,054. The payroll listed 4,779 persons who received \$12,968,618 in salaries and wages. Materials having a cost of \$29,221,782 were used in manufacture.

The commodities shipped by the industry in 1956 are detailed in Table 29. Materials used data is to be found in Table 30.

TABLE 28. Principal Statistics, 1947 to 1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1947 .....	81	2,503	3,910,567	162,906	5,869,959	6,683,145	12,716,010
1948 .....	79	2,591	4,122,692	175,466	5,604,354	8,717,086	14,496,906
1949 .....	90	2,901	5,178,760	220,803	8,091,506	8,833,277	17,145,586
1950 .....	98	3,195	6,051,615	265,073	10,948,140	11,828,581	23,041,794
1951 .....	127	3,626	8,026,787	343,244	15,490,305	15,946,997	31,780,546
1952 .....	143	3,700	8,536,568	382,175	15,773,365	17,429,571 <sup>2</sup>	33,585,111
1953 .....	152	4,067	10,138,910	425,819	18,725,905	18,858,821 <sup>2</sup>	39,010,545
1954 .....	154	3,920	9,989,841	504,209	18,526,126	18,601,356	37,480,878
1955							
Canada .....	170	4,379	11,333,120	564,350	24,247,328	24,459,307	48,732,590
Quebec .....	51	1,261	3,325,572	191,428	8,308,476	7,769,354	16,018,157
Ontario .....	97	2,867	7,532,948	355,932	13,971,690	15,753,239	29,824,311
British Columbia .....	11	59	131,997	6,849	300,768	234,808	527,084
Other Provinces .....	11	192	342,603	10,141	1,666,394	701,906	2,363,038
1956							
Canada .....	177	4,779	12,968,618	687,587	29,221,782	27,676,435	56,537,054
Quebec .....	53	1,322	3,627,475	234,433	9,332,876	8,137,809	17,480,626
Ontario .....	98	3,148	8,625,580	417,283	16,967,346	18,144,919	34,834,399
British Columbia .....	11	68	168,805	12,203	362,893	293,926	660,509
Other Provinces .....	15	241	546,758	23,668	2,558,667	1,099,781	3,561,520

1. Commencing with 1952 value of factory shipments has been collected instead of gross value of production.

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

TABLE 29. Factory Shipments, 1955 and 1956

Products	1955	1956
	Selling value at factory	Selling value at factory
	\$	\$
Household equipment and accessories:		
Dresserware.....	1	1
Kitchenware.....	1,529,747	2,571,042
Tableware.....	1,257,779	1,738,484
Trays.....	265,078	210,542
Bags, garment, laundry, etc.....	381,312	325,515
Covers, food and other.....	634,732	808,497
Curtains and drapes.....	450,242	296,112
Handles and knobs, for kitchenware and other household equipment.....	933,599	1,124,412
Hangers, garment.....	109,143	130,328
Table cloths and covers.....	347,749	234,799
Food containers other than bags.....	1,448,681	681,569
Other.....		1,019,483
Clothing and personal equipment:		
Aprons.....	46,380	27,000
Baby pants.....	453,948	2
Bibs.....	42,414	51,947
Headwear.....	14,112	2
Bags, knitting, hand, etc.....	135,809	-
Bags, diaper, cosmetics, etc.....	52,488	52,282
Brushes and brush parts.....	68,002	161,950
Buttons.....	24,707	2
Combs.....	985,272	1,032,720
Other clothing and personal equipment, not specified.....	1,814,489	2,534,772
Miscellaneous plastics products:		
Automobile parts and accessories.....	1,382,222	1,507,985
Aircraft parts and accessories.....	445,478	489,642
Radio parts and accessories.....	1,034,308	733,752
Refrigerator parts and accessories.....	847,954	1,827,648
Electrical parts and accessories, other.....	3,294,325	3,013,047
Bags for packaging food, etc.....	3,921,312	5,792,986
Bottle caps, closures, etc.....	712,015	831,016
Boxes and cases for clocks, hosiery, jewellery, etc.....	100,021	81,687
Boxes, other.....	671,400	533,142
Beauty parlor equipment and accessories.....	28,132	22,168
Garden hose.....	406,758	605,886
Handles, not elsewhere specified.....	256,307	225,198
Novelties.....	585,240	711,023
Nursery supplies.....	261,783	229,413
Signs and displays.....	287,033	224,173
Stationery goods.....	252,906	272,599
Toys.....	2,903,128	3,223,092
Tile, floor and wall.....	1,127,216	1,636,877
Pipe, extruded.....	1,635,898	2,208,079
Tubing, lacing, belting, etc., extruded.....	480,443	492,197
Other miscellaneous plastics products not specified.....	15,519,631	17,037,775
Miscellaneous products other than plastics.....	1,111,765	1,565,050
Custom work and repairs.....	471,632	271,155
Total value of products.....	48,732,590	56,537,054

1. Included with "Other", Household equipment and accessories.

2. Included with "other clothing and personal equipment, not specified".

TABLE 30. Materials Used, 1955 and 1956

Materials	1955			1956		
	Quantity		Cost at factory	Quantity		Cost at factory
	Moulding powders and compounds	Liquids, rods, bars, sheeting, etc.		Moulding powders and compounds	Liquids, rods, bars, sheeting, etc.	
	lb.	lb.	\$	lb.	lb.	\$
<b>Synthetic resins:</b>						
1. Phenol-aldehyde types phenol-formaldehyde and other .....	3,467,739	5,378,084	1,561,756	4,273,314	6,239,932	1,928,677
2. Amino-aldehyde types:						
(a) Urea-formaldehyde and other ..	2,238,287	280	431,058	2,365,430	240	444,958
(b) Melamine-formaldehyde .....	2,008,595	4,500	947,920	2,401,704	4,000	1,105,457
3. Alkyd types:						
Polyesters and other .....	25,668	334,280	131,020	1,035,182	510,163	546,124
4. Polyamide types:						
Nylon and other .....	236,285	2,004	340,857	327,158	8,545	457,629
5. Styrene types:						
(a) Polystyrene .....	10,343,177	287,817	3,412,905	10,205,186	1,005,212	3,866,188
(b) Other .....	722,988	27,948	166,674	1,112,477	18,269	373,506
6. Vinyl types:						
(a) Vinyl acetate .....	313,350	547,646	528,183	101,391	607,417	559,383
(b) Vinyl chloride .....	1,824,568	769,836	1,409,200	2,595,728	1,287,063	1,617,160
(c) n.s. ....	678,892	1,129,583	1,176,173	168,202	2,085,743	1,570,788
7. Polyethylene types .....	7,539,346	1,923,284	4,189,753	9,231,480	3,260,940	5,477,808
8. Acrylic types .....	278,146	307,377	478,894	539,764	375,381	629,055
9. Silicone types .....	—	1	1	—	1	1
10. Other synthetic resin types .....	—	—	308,447	—	—	189,441
<b>Cellulose plastics:</b>						
Cellulose nitrate (celluloid and other) .....	2,500	6,415	11,207	2	2	2
Cellulose acetate .....	543,416	142,540	374,530	540,711	233,590	452,825
Cellulose acetate butyrate .....	683,421	12,968	412,239	766,262	22,508	480,548
Ethyl cellulose .....	2,790	7,270	7,168	29,542	3,274	22,660
Cellulose film ("cellophane", etc.) .....	67,000	844,216	583,100	1,000	1,045,636	759,947
Other cellulose plastics .....	2,210	550	1,847	3,677	27,120	33,895
Other plastics .....	—	—	2,424,613	—	—	1,622,173
<b>Other materials:</b>						
Cotton fabrics .....	—	—	223,896	—	—	331,158
Other fabrics .....	—	—	104,675	—	—	120,394
Paper .....	—	—	1,119,647	—	—	1,339,484
Rubber .....	—	—	64,717	—	—	107,445
Metals .....	—	—	443,023	—	—	585,919
Paints, lacquers, etc. ....	—	—	80,555	—	—	120,993
Shipping containers and packing materials .....	—	—	1,100,272	—	—	1,281,788
All other materials .....	—	—	2,212,899	—	—	3,196,379
<b>Total cost of materials used .....</b>	<b>—</b>	<b>—</b>	<b>24,247,328</b>	<b>—</b>	<b>—</b>	<b>29,221,782</b>

1. Confidential. Included with "Other synthetic resin types".

2. Confidential. Included with "Other cellulose plastics".

## Signs, Electric, Neon and Other

This industry comprises establishments primarily engaged in the manufacture of signs, electric and non-electric, and advertising displays. It does not include establishments whose principal activity is the provision of advertising service or the erection and maintenance of signs.

Electric signs include those of neon and other luminous tube, many of which are leased or rented. Signs which were not sold outright are reported at the value they would have were they so sold. Beginning with 1955 the number and estimated value of leased or rented signs which hitherto had been included in the industry totals were removed. They are shown separately in a footnote to Table 32.

In 1956 reports were collected from 329 establishments compared with 305 establishments in 1955. Receipts from factory shipments, rentals, custom work and repairs amounted to \$28,874,077 compared with the 1955 figure of \$25,278,087. Employment which stood at 3,102 in the earlier year rose to 3,324 in the later and salaries and wages increased from \$9,777,004 to \$11,420,335 over the two years. Materials used cost \$9,890,036 in 1956 compared with \$7,819,492 in 1955.

Details of the commodities shipped by the industry in 1956 are to be found in Table 32.

TABLE 31. Principal Statistics, Representative Years, 1935 to 1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1935 .....	38	536	652,461	40,058	383,011	1,238,818	1,661,887
1938 .....	46	673	894,397	51,084	476,586	2,022,775	2,550,445
1939 .....	42	624	870,842	60,335	474,769	1,872,317	2,407,421
1941 .....	39	656	1,026,142	90,287	558,320	2,602,609	3,251,210
1943 .....	31	400	711,641	61,599	289,210	1,707,673	2,058,482
1945 .....	30	605	1,095,673	75,275	499,680	1,999,872	2,574,827
1947 .....	42	1,038	2,183,227	94,994	1,528,525	3,829,354	5,452,873
1949 .....	49	1,369	3,146,480	156,828	2,119,144	6,156,257	8,432,229
1950 .....	64	1,569	3,874,776	171,021	2,801,486	7,531,833	10,504,340
1951 .....	103	2,001	5,336,652	271,396	4,765,596	10,021,946	15,058,938
1952 .....	176	2,356	6,609,424	330,225	5,344,140	12,711,681 <sup>2</sup>	18,386,046
1953 .....	193	2,632	7,703,654	336,970	6,247,579	15,204,952 <sup>2</sup>	21,789,501
1954 .....	206	2,731	8,493,332	430,412	6,444,124	13,391,309	20,273,968
1955							
Canada .....	305	3,102	9,777,004	537,754	7,819,492	16,930,088	25,278,087
Newfoundland and New Brunswick .....	7	43	120,386	5,864	72,600	170,883	248,625
Nova Scotia .....	6	20	63,607	5,115	48,821	94,465	148,401
Quebec .....	63	708	2,063,841	114,085	1,617,864	3,484,627	5,221,996
Ontario .....	147	1,343	4,093,468	257,279	4,042,543	6,480,246	10,767,728
Manitoba .....	13	199	618,246	48,719	324,492	1,243,725	1,616,954
Saskatchewan .....	3	19	61,480	1,491	33,816	160,242	195,004
Alberta .....	28	257	839,520	46,921	466,064	1,904,227	2,417,222
British Columbia .....	38	513	1,916,456	58,280	1,213,292	3,391,673	4,662,157
1956							
Canada .....	329	3,324	11,420,335	601,222	9,890,036	18,377,732	28,874,077
Newfoundland and New Brunswick .....	7	48	138,852	9,902	99,379	199,007	307,471
Nova Scotia .....	6	21	75,427	4,715	61,957	101,446	169,912
Quebec .....	63	752	2,440,025	132,537	2,016,327	4,019,752	6,167,313
Ontario .....	168	1,459	4,712,376	281,652	4,767,944	7,385,484	12,343,618
Manitoba .....	13	198	706,288	50,982	417,366	1,446,839	1,922,489
Saskatchewan .....	3	21	81,425	3,416	63,634	126,282	201,681
Alberta .....	28	271	1,063,474	54,055	773,502	1,859,950	2,717,322
British Columbia .....	41	554	2,202,468	63,963	1,689,927	3,238,972	5,044,271

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".

TABLE 32. Factory Shipments, 1955 and 1956

Products	1955 Selling value at factory	1956 Selling value at factory
	\$	\$
Signs, Electric:		
Neon and other luminous tube .....	3,965,526 <sup>1</sup>	4,920,386 <sup>1</sup>
Other electric .....	1,091,171 <sup>1</sup>	1,008,484 <sup>1</sup>
Signs, Non electric:		
Metal signs .....	2,760,312	2,456,699
Screen processed signs, other than metal .....	910,951	1,089,146
All other non electric signs .....	1,728,990 <sup>1</sup>	1,883,558 <sup>1</sup>
Fluorescent lighting fixtures .....	596,944	524,878
Advertising displays .....	4,223,895	4,847,948
All other products .....	1,269,986	1,646,217
Amount received for rental of signs .....	6,786,858	8,142,806
Amount received for custom work and repairs .....	1,943,454	2,353,955
<b>Total .....</b>	<b>25,278,087</b>	<b>28,874,077</b>

1. In addition to these signs which were shipped on an outright sales basis the following were manufactured but shipped on a lease or rental basis.

	1955 Estimated value	1956 Estimated value
	\$	\$
(a) Neon and other luminous tube .....	3,493,727	3,780,418
(b) Other electric .....	47,209	44,313
(c) All other non electric .....	96,988	333,392
<b>Total .....</b>	<b>3,637,924</b>	<b>4,158,123</b>

#### Stamps and Stencils, Rubber and Metal

As indicated by its title, this industry comprises those establishments whose principal products are stamps and stencils of rubber and metal. Establishments engaged primarily in the manufacture of paper stencils are classified to the Miscellaneous Paper Products industry.

In 1956 reports were received from 71 establishments distributed provincially as follows: Nova Scotia 2, Quebec 15, Ontario 36, Manitoba 5, Saskatchewan 2, Alberta 3 and British Columbia 8. They reported factory shipments with a value of \$6,336,853, thus indicating an industry comprised of relatively small plants. Employees numbered 952 persons who received \$3,008,218 in salaries and wages. Materials consumed in production cost

\$1,921,272. Comparable figures for 1955 are 65 establishments, 897 employees, salaries and wages \$2,605,349, material cost \$1,596,363 and value of factory shipments \$5,642,901.

The industry in 1956 reported shipments with a value of \$1,682,143 for the item "stamps, daters and other marking devices". Of this total, \$1,523,652 worth were of rubber. Factory shipments of rubber dies amounted to \$487,127 and other dies to \$227,553. Seals, all kinds, were shipped to the value of \$394,838 and stencils, all kinds, to the value of \$86,386. Shipments of metal, licence, name and other types of plates amounted to \$1,562,092. Other products included signs, badges, metal stampings and buttons.

#### Statuary, Art Goods, Regalia and Novelties

The value of factory shipments in this industry in 1956 remained practically unchanged from 1955. Factory shipments in 1956 were \$4,739,696 while in the preceding year they totalled \$4,712,793. The number of employees fell to 798 from the 882 employed in 1955 and their earnings from \$1,982,841 to \$1,855,547. Cost of materials increased from \$1,633,705 in the earlier year to \$1,804,792 in the latter, a rise of 10.5 per cent.

The industry in the year under review was comprised of 108 establishments, 9 less than a year before. It was concentrated in Quebec and Ontario as will be seen by the following provincial distribution of establishments: Quebec 45, Ontario 45, Manitoba 9, Alberta 1 and British Columbia 8.

In the same year the industry shipped statues valued at \$767,087. Other statuary and art goods shipped had a value of \$689,357. Shipments of novelties were valued at \$810,991 and crests, emblems, badges and regalia at \$299,796. Complete information on commodity shipments will be found in Table 34.

Imports of the principal commodities manufactured by the industry were as follows: statues and statuettes of porcelain or earthenware, \$986,013; statues and statuettes of material other than porcelain or earthenware, \$299,805; regalia and badges, \$159,062.

TABLE 33. Principal Statistics, 1939-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1939 .....	54	392	384,953	6,354	289,531	516,044	811,929
1940 .....	59	503	470,906	13,510	346,359	686,788	1,046,657
1941 .....	67	707	615,728	12,879	640,139	907,763	1,560,781
1942 .....	76	851	763,183	13,116	767,904	1,206,923	1,987,943
1943 .....	86	905	881,967	14,272	912,003	1,308,966	2,235,241
1944 .....	83	881	955,253	13,430	981,282	1,481,145	2,475,857
1945 .....	89	1,031	1,154,995	22,972	1,054,240	1,824,637	2,901,849
1946 .....	93	1,180	1,409,335	25,134	1,334,889	2,068,783	3,428,806
1947 .....	100	992	1,303,428	32,143	1,214,486	1,951,092	3,197,721
1948 .....	95	954	1,403,791	36,982	1,412,784	2,318,583	3,768,349
1949 .....	104	1,017	1,614,462	38,270	1,647,983	2,606,600	4,292,853
1950 .....	107	932	1,551,905	39,197	1,377,353	2,415,993	3,832,543
1951 .....	125	1,037	1,859,607	47,524	1,829,707	2,868,184	4,745,415
1952 .....	137	1,055	1,995,197	62,765	1,800,922	3,032,303 <sup>2</sup>	4,895,990
1953 .....	122	989	2,090,786	59,632	1,842,169	3,309,371 <sup>2</sup>	5,211,172
1954 .....	111	946	2,055,885	67,918	1,509,980	3,175,292	4,712,658
1955							
Canada .....	117	882	1,982,841	72,468	1,633,705	2,988,597	4,712,793
Quebec .....	50	388	798,920	31,499	654,913	1,174,218	1,877,739
Ontario .....	48	375	967,675	31,561	829,824	1,475,497	2,339,685
Manitoba .....	9	95	178,125	5,032	134,304	286,776	429,586
British Columbia and other provinces ..	10	24	38,121	4,376	14,664	52,106	65,783
1956							
Canada .....	108	798	1,855,547	78,232	1,804,792	2,870,232	4,739,696
Quebec .....	45	343	787,274	39,423	665,782	1,183,290	1,861,449
Ontario .....	45	345	856,350	30,213	959,834	1,317,148	2,310,445
Manitoba .....	9	92	185,704	5,754	163,371	332,597	509,092
Alberta and British Columbia .....	9	18	26,219	2,842	15,805	37,197	58,710

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".

TABLE 34. Factory Shipments, 1955 and 1956

Products	1955	1956
	Selling value at factory	Selling value at factory
	\$	\$
Statuary and art goods:		
Statues, all kinds .....	664,936	767,087
Religious articles (rosaries, medals, etc.) .....	195,957	156,848
Ornaments, plaster .....	453,050	344,127
"    other .....	184,330	139,283
Art goods, other .....	9,065	49,099
Novelties, advertising and other:		
Felt .....	1	1
Leather .....	1	1
Paper .....	146,699	133,361
Plastic .....	199,248	189,711
Plaster .....	208,007	163,936
Wooden .....	33,777	39,544
Other .....	315,201	272,939
Christmas decorations .....	348,187	543,941
Crests, emblems, badges, regalia, all kinds .....	289,657	299,796
Pennants .....	—	—
Gold and silver stampings .....	155,422	2
Display stands and fixtures, all kinds .....	70,325	71,280
Display forms, all kinds .....	416,991	423,518
All other products .....	802,893	985,848
Amount received for custom work and repair .....	219,048	159,378
<b>Total .....</b>	<b>4,712,793</b>	<b>4,739,696</b>

1. Included with "Other" novelties.
2. Included with "All other products".

### The Toy and Game Industry

This industry is comprised of establishments which manufacture toys and games as their principal product. In 1956 reports were received from 67 of these which were distributed provincially as follows: Nova Scotia 2, Quebec 15, Ontario 46, Manitoba 1, Alberta 1 and British Columbia 2. The industry was concentrated in Ontario and Quebec, Ontario holding the dominant position with 69 per cent of employees and 71 per cent of shipments. Quebec accounted for 31 per cent of employees and 28 per cent of shipments.

Factory shipments made by the industry in 1956 had a value f.o.b. factory of \$15,444,080 which compares with \$12,311,395 worth of products shipped in 1955. Employment increased from 1,405 in the earlier year to 1,741 in the later while salaries and wages rose from \$3,320,076 to \$4,028,376. The cost of materials used amounted to \$8,298,927 in 1956 as against \$6,231,378 in 1955.

Increase in imports has been substantial during post war years in the products made by this industry. Increasing amounts of toys are being obtained annually from Japan, Italy and Germany. During 1956 a peak was reached when importations from all countries totalled \$11,141,018. Corresponding figures for 1955 were \$10,080,709. Exports, on the other hand, are relatively unimportant. In 1955 the total figure was \$234,185 while in 1956 it was \$247,317.

The toys and games produced by the establishments classified to this industry do not represent total Canadian production. There are concerns which manufacture toys and games only as secondary or minor products and which are assigned to other industries on the basis of their more important items of manufacture. In 1956 these concerns accounted for approximately 66 per cent of the value of total Canadian shipments. Table 37 summarizes in as much detail as possible total shipment of toys and games as assembled from all industries.

TABLE 35. Principal Statistics, Representative Years, 1926-1956

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 <sup>1</sup>
	No.	No.	\$	\$	\$	\$	\$
1926.....	13	144	124,617	3,820	242,728	232,169	478,717
1928.....	10	129	114,055	4,332	213,541	212,244	430,117
1930.....	9	88	66,411	2,606	111,590	121,609	235,805
1932.....	12	206	163,376	4,379	186,490	324,828	515,697
1933.....	12	152	98,150	2,308	114,460	287,126	403,894
1937.....	13	282	206,238	12,861	318,363	463,171	794,395
1939.....	13	348	273,589	15,562	411,740	566,338	993,640
1941.....	19	547	403,322	15,858	706,570	743,342	1,465,770
1942.....	28	678	599,228	18,048	826,580	1,097,489	1,942,117
1943.....	45	975	887,665	21,279	1,118,028	1,748,216	2,887,523
1944.....	51	1,230	1,153,044	24,168	1,643,253	2,288,377	3,955,798
1945.....	56	1,428	1,473,937	41,331	1,876,656	2,892,078	4,810,065
1946.....	50	1,456	1,736,996	56,817	2,224,510	3,327,996	5,609,323
1947.....	47	1,203	1,639,592	50,688	1,836,849	2,324,178	4,211,715
1948.....	45	1,086	1,730,713	37,962	2,313,113	3,111,152	5,462,227
1949.....	56	1,448	2,645,957	82,426	3,691,073	4,277,234	8,050,733
1950.....	56	1,624	3,032,658	90,619	4,371,643	4,983,448	9,445,710
1951.....	53	1,432	3,099,681	79,645	4,611,546	4,925,841	9,617,032
1952.....	58	1,484	2,989,220	103,471	5,087,008	5,224,167 <sup>2</sup>	10,414,646
1953.....	55	1,551	3,475,270	128,840	5,948,744	5,291,829 <sup>2</sup>	11,369,413
1954.....	52	1,337	3,134,766	119,784	5,608,244	5,145,063	10,937,953
1955							
Canada.....	56	1,405	3,320,076	139,954	6,231,378	5,762,524	12,311,395
Quebec.....	13	396	1,040,853	51,618	1,422,392	1,839,567	3,374,572
Ontario.....	37	994	2,260,532	87,263	4,787,926	3,900,892	8,890,930
Other provinces.....	6	15	18,691	1,073	21,060	22,065	45,893
1956							
Canada.....	67	1,741	4,028,376	206,603	8,298,927	7,328,702	15,444,080
Quebec.....	15	532	1,347,035	71,774	2,141,029	2,333,498	4,371,126
Ontario.....	46	1,199	2,662,694	133,268	6,140,810	4,967,381	11,034,573
Other provinces.....	6	10	18,647	1,561	17,088	27,823	38,381

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".

TABLE 36. Factory Shipments, 1955 and 1956

Products	1955		1956	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	doz.	\$	doz.	\$
Dolls.....	147,183	3,425,071	177,428	3,982,289
Dolls' furnishings.....	1	1	1	1
Metal toys.....	—	1,899,737	—	2,214,459
Plastic toys.....	—	783,435	—	2,033,694
Wooden toys.....	—	243,137	—	254,486
Stuffed animals, etc.....	73,935	1,112,260	133,417	1,569,473
Toy vehicles.....	1	1	1	1
Other toys.....	—	1,858,610	—	2,134,137
Games and puzzles.....	—	713,490	—	931,943
Miscellaneous products, not specified.....	—	2,275,655	—	2,323,599
Amount received for repairs.....	—	1	—	1
Total.....	—	12,311,395	—	15,444,080

1. Confidential. Included with "Other toys".

**Note:** The above table includes only the statistics of those manufacturing establishments whose principal products are toys and games. The figures do not necessarily represent Canadian totals as toys and games are also made as secondary products by firms in other industries. The total figures for all industries are shown in Table 37.

TABLE 37. Toys and Games from all Industries, 1955 and 1956

Products	1955		1956	
	Quantity	Selling value at factory	Quantity	Selling value at factory
	doz.	\$	doz.	\$
Doll carriages .....	—	1,040,454	—	1,028,887
Dolls .....	—	3,774,529	—	4,191,169
Dolls' furnishings .....	—	315,257	—	370,099
Metal toys .....	—	2,039,067	—	2,370,624
Plastic toys .....	—	3,958,514	—	5,701,106
Wooden toys .....	—	757,985	—	639,926
Stuffed animals .....	—	1,114,556	133,417	1,569,473
Rubber toys and novelties .....	94,329	297,546	—	268,628
Balloons .....	169,305	482,176	212,050	418,906
Sleighs, children's .....	—	331,105	—	351,776
Tricycles, all types .....	—	1,124,651	—	1,554,932
Other children's vehicles .....	—	720,319	—	780,334
Miscellaneous toys (including toy vehicles) .....	—	2,196,073	—	2,185,419
Games and puzzles .....	—	1,799,002	—	1,971,460
<b>Total .....</b>	<b>—</b>	<b>19,951,239</b>	<b>—</b>	<b>23,402,739</b>

1. Figures for 1956 are preliminary and subject to revision.

TABLE 38. Imports of Toys and Games, 1955 and 1956

Articles imported	1955	1956
	\$	\$
Dolls of all kinds .....	531,061	489,186
Mechanical toys of metal .....	2,182,634	3,037,749
Metal or rubber juvenile construction sets, consisting of various stampings, punched or moulded, and connections, and parts .....	344,873	378,548
Toys of all kinds, n.o.p. ....	7,022,141	7,235,535

TABLE 39. Exports of Toys, 1955 and 1956

Articles exported	1955	1956
	\$	\$
Dolls .....	104,936	82,328
Toys .....	129,249	164,489

### Typewriter Supplies

This industry is comprised of manufacturing establishments whose principal products are carbon paper and typewriter ribbons. In 1956 there were nine of these with all but three of them in Ontario. Two were located in Quebec and one in British Columbia.

The industry's factory shipments were worth \$5,120,176 and \$5,810,198 respectively in the years 1955 and 1956. Employment rose from 395 to 430 while salaries and wages rose from \$1,216,459 to \$1,260,265 over the two years. Materials cost \$2,510,102 in the earlier year compared with \$2,883,424 in the later.

Carbon paper shipments amounted to \$2,675,047 worth in 1955 and \$3,055,292 worth in 1956. Factory

shipments of machine ribbons, principally typewriter, amounted in value to \$1,952,439 in 1955 compared with \$2,125,329 in 1956. Other products included stamp pads, duplicator fluid and ink but since less than three manufacturers were involved in the manufacture of each of them the figures cannot be published without divulging the particulars of individual firms.

Factory shipments of carbon paper and typewriter ribbons in Canada by all industries in 1956 amounted to \$3,325,870 and \$2,351,909, respectively. In the same year 648,069 pounds of carbon paper valued at \$484,327 and 12,751 pounds of typewriter ribbons value at \$48,797 were imported.



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TABLE 40. Principal Statistics, 1927-1956

Year	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
	No.	No.	\$	\$	\$	\$	\$
1927 .....	4	86	159,148	6,754	236,561	291,702	535,017
1930 .....	4	110	191,623	7,688	354,228	413,944	775,860
1932 .....	5	116	206,611	7,687	220,095	370,691	598,473
1937 .....	8	177	304,769	8,509	406,152	508,012	922,673
1939 .....	8	234	371,586	10,145	553,664	667,200	1,231,009
1940 .....	8	243	419,184	10,001	703,740	618,105	1,331,846
1942 .....	8	313	544,670	13,673	1,104,621	1,037,669	2,155,963
1945 .....	8	306	568,151	17,530	1,255,348	1,085,730	2,358,608
1946 .....	8	334	620,274	18,432	1,442,410	1,261,401	2,722,243
1948 .....	8	372	760,726	25,043	1,729,542	1,960,323	3,714,908
1949 .....	7	396	885,086	26,236	1,916,789	1,921,239	3,864,264
1950 .....	7	427	911,674	31,322	2,174,991	1,998,895	4,205,208
1951 .....	7	397	1,023,355	29,884	2,375,846	1,955,279	4,361,009
1952 .....	8	431	1,142,437	30,180	2,177,550	2,266,661 <sup>2</sup>	4,474,391
1953 .....	10	445	1,227,504	32,850	2,401,040	2,588,004 <sup>2</sup>	5,021,894
1954 .....	10	409	1,211,327	36,595	2,256,261	2,525,928	4,837,619
1955 .....	10	395	1,216,459	35,601	2,510,102	2,582,566	5,120,176
1956 .....	9	430	1,260,265	41,706	2,883,424	2,899,091	5,810,198

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".

### Umbrellas

This industry is a small one with a gross value of production which has hovered around the \$1 million mark for the past few years. Establishments are few with their number being 9 in the year under review. Four of these were located in Quebec, 2 in Ontario and three in British Columbia.

The industry reported factory shipments to the value of \$1,314,797 and \$1,070,853 in 1955 and 1956, respectively. Employment which stood at 167 in 1955 fell to 138 in 1956 accompanied by a drop

in salary and wage payments from \$347,779 to \$284,138. Materials used cost \$713,814 in the earlier year compared with \$609,703 in the later.

Umbrellas along with a small amount of repair work performed account for all the industry's production. In 1956 there were 37,957 dozen umbrellas shipped with a value of \$1,049,552. Shipments of this commodity in 1955 amounted to 45,335 dozen worth \$1,289,778.

### The Miscellaneous Industries, N.E.S.

To this industry are classified those establishments which are unassignable to other industries of the industrial classification. The establishments manufacture either a product or products not covered by a distinct classification or a product or products which would be assignable to existing classifications except for their mixed nature.

Because of the nature of its composition, this industry is subject to substantial fluctuation and because of its heterogeneous nature comparisons between years do not have any great significance. It was comprised of 38 establishments in 1955 and 39 establishments in 1956. These were confined chiefly to Ontario and Quebec with 11 plants in Quebec, 26 in Ontario, 1 in Alberta and 1 in British Columbia.

In 1956 the industry shipped goods valued at \$14,381,749. The payroll listed 1,789 persons who received \$4,814,421 in salaries and wages. Materials costing \$4,938,849 were consumed in manufacture. Comparable 1955 figures are as follows; shipments, \$12,857,430; employees, 1,711; salaries and wages \$4,256,315; materials used, \$4,039,616.

The products are, of course, quite varied including such diverse items as bobby pins and carpet sweepers. In the assortment, to mention only a few, are jewellery findings, jewellery trays, knitting needles, safety pins and plates for addressograph and multigraph machines. Unfortunately, too few firms are engaged in the manufacture of the individual items to permit publication of figures for products.