



BATTERY MANUFACTURERS 1960

First issue—Statistics for this industry formerly published in 43-201 "The Electrical Apparatus and Supplies Industry."

ANNUAL CENSUS OF MANUFACTURES

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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.

EXPLANATORY NOTES

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

Standard Industrial Classification

The revised Standard Industrial Classification which has been introduced with the 1960 Census of Manufactures provides for a breakdown of the universe into 140 industries arranged in 20 major groups compared with 135 industries in 17 major groups in the old classification which was used in the compilations for the years 1949 to 1959 inclusive. It incorporates changes considered desirable on the basis of experience in using the earlier classification as well as those which take account of changes in the structure of Canadian industries associated with the rapid developments of the past decade. Full details are contained in the Standard Industrial Classification Manual, Catalogue No. 12-501, which is available from either the Queen's Printer or the Dominion Bureau of Statistics, Reporting establishments are classified or allotted to specific industries on the basis of the value of principal products made or shipped.

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

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

Short Forms

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

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

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

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

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

BATTERY MANUFACTURERS

1960

Data for 1960 presented in this report reflect implementation of the revised Standard Industrial Classification (SIC) which is being used by the Dominion Bureau of Statistics in its compilation of 1960 industry statistics - see item "Standard Industrial Classification" in the Explanatory Notes section of this report. The present report constitutes the first in this series for Battery Manufacturers almough comparable statistics under the heading of the Batteries Industry have been compiled since 1949—see The Electrical Apparatus and Supplies industry. For statistical purposes the industry titled Battery Manufacturers in the revised Standard Industrial Classification covers the operations of establishments primarily engaged in manufacturing storage and primary batteries including wet and dry batteries.

In many instances, adoption of the new Standard Industrial Classification effected a radical shifting of manufacturing establishments as between industry groupings. Where this has occurred an attempt has been made to re-compile 1957, 1958 and 1959 data on the revised Standard Industrial Classification basis for purposes of comparability and the revised data will be presented in the appropriate industry

reports; however, changes brought about by implementation of the new SIC in the case of Battery Manufacturers have been nil (except as they relate to title) so that for all practical purposes the new grouping corresponds completely with the industry formerly titled the Batteries Industry for which separate statistics have been compiled since 1949.

There were 28 establishments classified as Battery Manufacturers in 1960 there being 1 in Newfoundland, 3 in Quebec, 11 in Ontario, 2 in Manitoba, 4 in Alberta and 7 in British Columbia. Employees in this industry numbered 2,114; salaries and wages totalled \$9,058,580; materials used in manufacturing processes cost \$21,534,007 and factory shipments were valued at \$39,384,681.

Factory shipments of storage batteries in this industry in 1960 were valued at \$24,932,389 while factory shipments of dry batteries were valued at \$8,672,427. Other products reported as secondary lines by establishments in this industry included carbon and graphite products, anti-freeze, zinc sheet and strip, flashlight cases, etc. For the most part these items were reported by only one or two firms and, therefore, details cannot be released.

TABLE 1. Principal Statistics, Significant Years 1949 - 60: Battery Manufacturers

Year and province	Estab- lish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity at plant	Cost at plant of materials used	Value added by manufacture ¹	Value of factory shipments
	num	ber			dollars		
1949 1950 1951 1952 1953 1954 1955 1956 1957 1958	24 26 25 26 26 31 36 36 34	2, 140 2, 174 2, 139 2, 094 2, 091 2, 122 2, 237 2, 244 2, 296 2, 183	5, 232, 393 5, 555, 442 6, 139, 832 6, 455, 438 6, 979, 527 7, 256, 190 7, 872, 246 8, 017, 309 8, 948, 462 8, 494, 204	289, 978 340, 595 370, 256 370, 708 440, 680 419, 830 484, 022 574, 170 565, 613 511, 447	18, 509, 992 21, 202, 084 23, 983, 736 25, 253, 692 19, 486, 735 19, 582, 999 23, 718, 135 25, 702, 818 24, 573, 500 22, 184, 794	12, 367, 069 13, 014, 927 13, 367, 364 15, 084, 340 15, 536, 192 14, 713, 016 15, 722, 359 14, 540, 125 18, 030, 192 15, 387, 640	31, 167, 039 34, 557, 606 37, 721, 356 40, 708, 740 35, 463, 607 35, 302, 82 40, 055, 423 41, 133, 182 41, 678, 716 39, 604, 763
1959							
Newfoundland and Quebec Ontario	5 11 6 7	261 1, 503 385 74	1,011,273 6,503,293 1,343,127 276,057	75, 285 351, 805 104, 203 25, 025	2, 354, 053 16, 257, 945 4, 318, 213 547, 723	2,397,390 12,473,787 3,881,000 473,595	4,710,111 28,447,271 7,935,272 1,014,210
Canada	29	2, 223	9, 133, 750	556, 318	23, 477, 934	19, 225, 772	42, 106, 864
1960							
Newfoundland and Quebec Ontario	11 6 7	242 1, 430 372 70	1,023,097 6,431,217 1,334,672 269,594	73, 293 308, 691 88, 239 22, 829	2, 335, 706 15, 328, 241 3, 337, 315 532, 745	1,692,032 11,368,811 3,291,466 417,131	3,651,004 27,844,376 6,914,752 974,549
Canada	28	2, 114	9, 058, 580	493, 052	21, 534, 007	16, 769, 440	39, 384, 683

¹ Due to lack of inventory data, figures for value added by manufacture prior to 1954 were obtained by subtracting the cost of materials used, including fuel and electricity, from the total value of factory shipments. In 1954 and 1955 the ''Value added'' adjustment incorporated the increase or decrease to shipments values resulting from changes in the value of inventories over the period. For these two years, the adjustments that were made used only the change in finished product inventory owned by manufacturer. Beginning with 1956 the calculation of the ''Value added'' figure was further adjustable to take into account the ''Goods in process'' as well as the finished goods held at plant or plant warehouse.

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

TABLE 2. Inventories, 1 1960

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
		doll	ars	
Opening:				
Newfoundland and Quebec	449, 489	120, 206	350, 655	920, 350
Ontario	1,840,172	2, 070, 602	1,776,821	5, 687, 595
Manitoba and Alberta	684, 933	401, 892	740, 593	1,827,418
British Columbia	163, 433	40, 502	90,460	294, 395
Canada	3, 138, 027	2, 633, 202	2, 958, 529	8, 729, 758
Closing:				
Newfoundland and Quebec	376, 392	482, 661	438, 227	1, 297, 280
Ontario	1, 629, 386	1,656,097	1, 352, 693	4,638,176
Manitoba and Alberta	730, 554	409, 716	535, 037	1,675,307
British Columbia	211, 284	29, 544	99, 574	340, 402
Canada	2, 947, 616	2, 578, 018	2, 425, 531	7, 951, 165

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

TABLE 3. Factory Shipments: Battery Manufacturers, 1959 and 1960

RESERVED AND AND AND AND AND AND AND AND AND AN	19	59	1960		
Product	Number	Number Value of factory shipments		Value of factory shipments	
ave Shows in the Bulletin Street		\$		\$	
Batteries:					
Storage batteries (see Table 6)		28, 019, 953	0 0	24, 932, 389	
Dry cell batteries (see Table 5)		8, 898, 544		8, 672, 427	
Parts and supplies for batteries and wet cell type batteries	4 0	1,076,864	0 0	351, 183	
All other products		4, 111, 503	8 4 4	5, 404, 728	
Amount received for repair work	-	-		23, 954	
Totals		42, 106, 864	• • •	39, 384, 681	

TABLE 4. Materials Used: Battery Manufacturers, 1959 and 1960

	195	9	196	1960		
Material	Quantity	Total cost at plant	Quantity	Total cost at plant		
		\$		\$		
Ammonium chloride (sal ammoniac)lb.	2, 589, 701	157,826	1, 264, 562	77, 86		
Battery boxes and containers		4, 430, 183		3, 695, 50		
Carbon plates, blanks, etc.		251,947		324, 37		
Carbon electrodes		210, 303		145, 80		
Graphite lb.	401,007	16, 394	339, 023	12, 15		
insulating waxes		4, 920		11,50		
Lead oxide:						
Litharge lb.	6,850,007	862, 108	5, 121, 401	633,85		
Red Lead	451, 087	63, 336	757, 855	107,71		
Manganese dioxide "	4, 822, 930	439, 607	4, 042, 107	405, 29		
Sulphuric acid, 100%	10, 109, 451	201, 191	7, 859, 187	167, 59		
Battery separators:						
Wood		760, 638		314.31		
Other		833, 129	4 4 4	966, 78		
Zinc chloride lb.	754, 085	56, 723	720, 547	51,73		
ron and steel:						
Sheets ton	113	24,324	106	22,82		
Stampings "	42	35, 655	35	29, 45		
Other forms		147,510		118.92		
Non-ferrous metals (all forms):	13/ 13	ALC: Y				
Antimony	_	_	270	19		
Brass and bronze	11, 106	9,422	4, 176	2, 75		
Copper:						
Wire, bare	14,878	6, 048	7, 221	2, 20		
Wire, insulated		6, 442		2, 30		
Other forms	40, 765	20, 421	38, 681	21, 01		
Lead:	DE 250 005	0.005.410	20 240 012	0 057 10		
Pig (pure) " Antimonial "	25, 376, 207 30, 257, 047	2, 695, 413 3, 569, 575	20, 849, 013 26, 214, 720	2, 257, 18 3, 092, 18		
Other forms	162,977	22, 083	168, 919	48, 22		
Mercury	1,596	4,889	1, 444	4, 24		
Zinc (all forms)		769, 575		813, 42		
Other non-ferrous metals	1,858	2, 937	1,800	3,04		
Asphalt and pitch		77, 041		95, 46		
Paints, stains, lacquers, etc.		13, 348		4, 91		
Containers and other packaging materials		827, 915		888, 18		
Operating supplies		996, 554		1,033,43		
All other materials		5, 960, 477		6, 179, 52		
		23, 477, 934		21, 534, 00		

TABLE 5. Factory Shipments of Dry Cell Batteries, 1959 and 1960 (From All Industries)

Туре	Quantity	Selling value at plant
1959		\$
Dry cell:		
6-inch batteries	1, 769, 279	1. 198. 788
Radio batteries for portable sets	24, 529, 057	1, 373, 486
Radio batteries for non-portable sets	14, 311, 153	1, 237, 181
Flashlight batteries	32, 152, 100	3,614,381
Hearing-aid batteries: ''A'' batteries ''B'' batteries	}	153, 763
All other dry batteries		1, 320, 945
Total		8, 898, 544
1960		
Dry cell:		
6-inch batteries	1, 436, 164	1,024,465
Radio batteries for portable sets	21, 708, 186	1, 445, 939
Radio batteries for non-portable sets	11, 395, 601	983, 545
Flashlight batteries	31,005,839	3, 695, 402
Hearing-aid batteries: ''A'' batteries ''B'' batteries	}	42, 403
All other dry batteries		1.480,673
Total		8, 672, 427

TABLE 6. Factory Shipments of Electric Storage Batteries, by Types, 1959 and 1960 (From All Industries)

Type	Quantity	Selling value at plant
1959		\$
For internal combustion engine starting and ignition batteries	2,441,913	22, 769, 711
For farm lighting plants cell	21, 027	346,640
For railway service	27, 579	1, 123, 511
For direct motive power (industrial trucks, mine locomotives, etc.) batteries	2,844	2, 141, 823
For all other purposes		1,638,268
Total		28, 019, 953
1960		
Automotive type (all types primarily designed to fit passenger cars): For initial installation batteries For replacement purposes	397, 752 1, 842, 122	3,022,963 16,298,763
Heavy-duty transport, motor coach and diesel starting batteries: For initial installation batteries For replacement purposes ""	6, 734 56, 465	89, 334 1, 126, 927
Marine	3, 162	116,822
For farm lighting cell	11,905	200, 994
For railway service (excluding railroad signalling but including diesel starting, air conditioning, car lighting)	18, 420	861, 670
For direct motive power (industrial truck, mine locomotive, etc.)	26, 051	1,781,249
For all other purposes (aircraft, motorcycle, communication, etc.)		1, 433, 667
Total		24, 932, 389

TABLE 7. Principal Statistics classified according to Type of Ownership: Battery Manufacturers, 1957 and 1960

Type	Estab- lish- ments	pl	Em- oyees	Salaries and wages	Cost at plant of materials used	Value of factory shipments	
	number			dollars			
1957		1					
Individual ownership Incorporated companies	2 32	}	2. 296	8, 948, 462	24, 573, 500	41, 678, 716	
Totals	34		2, 296	8, 948, 462	24, 573, 500	41, 678, 716	
1960					1171		
Individual ownership Incorporated companies	1 27	}	2, 114	9, 058, 580	21, 534, 007	39, 384, 681	
Totals	28		2, 114	9, 058, 580	21, 534, 007	39, 384, 681	

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

Establishments reporting value of factory shipments	Estab- lish- ments	Em- ployees	Salaries and wages	Cost at plant of materials used	Value of factory shipments
	num	ber		dollars	
1957					
Under \$10,000 \$ 25,000 to \$ 49,999 50,000 " 99,999 100,000 " 999,999 1,000,000 and over	3 5 5 7 14	3 28 52 147 2,066	5, 270 66, 370 156, 533 445, 478 8, 274, 811 8, 948, 462	5, 320 71, 100 211, 594 1, 878, 907 22, 406, 579 24, 573, 500	11, 539 179, 006 385, 953 2, 692, 351 38, 409, 867 41, 678, 716
Total S	34	W, W50	0,540,402	21, 313, 300	41, 010, 110
1960					
Under \$10,000 to \$24,999 \$ 25,000 to \$ 49,999 50,000 '' 499,999 500,000 '' 999,999 1,000,000 and over	3 4 5 3 13	5 25 60 165 1,859	12, 965 86, 107 218, 039 579, 259 8, 162, 210	9, 200 61, 439 355, 509 1, 173, 676 19, 934, 183	32, 994 147, 824 706, 510 2, 504, 391 35, 992, 962
Totals	28	2, 114	9, 058, 580	21, 534, 007	39, 384, 681

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

		E	mployees	S		Earnings				
Province		visory office		uction kers	Total	Total	Total	Supervisory	Production	Total
	Male	Female	Male	Female		and office	workers			
			number				dollars			
1959										
Newfoundland and Quebec Ontario Manitoba and Alberta British Columbia	71 305 80 18	26 141 31 4	149 774 206 43	15 283 68 9	261 1,503 385 74	427, 227 2, 372, 747 511, 925 77, 891	584, 046 4, 130, 546 831, 202 198, 166	1,011,273 6,503,293 1,343,127 276,057		
Canada	474	202	1, 172	375	2, 223	3, 389, 790	5, 743, 960	9, 133, 750		
1960										
Newfoundland and Quebec Ontario Manitoba and Alberta British Columbia	65 330 78 18	24 122 33 4	139 710 183 41	14 268 78 7	242 1,430 372 70	410,072 2,495,206 537,580 78,446	613,025 3,936,011 797,092 191,148	1,023,097 6,431,217 1,334,672 269,594		
Canada	491	183	1,073	367	2, 114	3, 521, 304	5, 537, 276	9, 058, 586		

TABLE 10. Production Workers, by Months: Battery Manufacturers, 1960

Month	Establishme monthly	nts reporting detail ¹
MOIN	Male	Female
anuary	1,095	341
rebruary	1,034	370
March	1,038	364
pril	1,023	372
lay	1, 058	374
une	1,051	381
uly	925	353
ugust	1,061	378
eptember	1,079	349
october	1,045	347
ovember	1,010	317
December	975	315
verage for establishments reporting monthly detail	1,035	356
verage estimated for small establishments ²	38	11
verage for all establishments	1,073	367

¹ The number of production workers, by months, was collected only for establishments generally reporting value of shipments of \$500,000 and over.
² For establishments generally reporting value of shipments of less than \$500,000, no data on number of workers were collected. Average was estimated by using change in value of shipments to arrive at value of payroll which was then used in conjunction with estimated average earnings to arrive at number of workers.

TABLE 11. Fuel and Electricity Used: Battery Manufacturers, 1960

Kind	Quantity	Cost at plant
		\$
Establishments reporting commodity detail:1		
Bituminous coal - Canadian ton	466	5, 906
Imported	608	6, 806
Anthracite coal	292	3,314
Lignite coal	473	2, 579
Gasoline (including gasoline used in cars and trucks) Imp. gal.	16, 224	6, 582
Fuel oil including kerosene or coal oil	686, 350	83, 032
Gas: (a) Liquefied petroleum gases	102, 894	25,030
(b) Natural gas M cu, ft.	85, 545	67, 330
Other fuel		7, 270
Electricity purchased	26, 029, 864	264, 579
. Estimate for establishments for which no data were collected:2		Edward Co
Cost of fuel and electricity		20, 624
All establishments:		
Total cost of fuel and electricity		493, 052

Establishments generally reporting value of shipments of \$500,000 and over.
 Establishments generally reporting value of shipments of less than \$500,000.

TABLE 12. Imports and Exports of Dry Cells and Storage Batteries, 1959 and 1960

	195	9	1960		
Item	Quantity	Value	Quantity	Value	
		\$		\$	
Imports					
Batteries for flashlights and parts		197, 736		216, 260	
Batteries, hearing aid and parts		456,322		424, 737	
Batteries, electric and galvanic primary and complete parts, n.o.p.		1, 060, 743	9 9 9	1, 042, 909	
Storage batteries, n.o.p. and parts including separator walls of wood		2, 095, 220		2, 140, 950	
Exports					
Storage batteries	5,381	62,630	5, 871	64, 928	
Storage battery parts		125, 009		15,288	
Batteries and parts n.o.p.		89, 114		145,064	

Directory of Firms, Battery Manufacturers, 1960

Name of firm	Location of plant
Newfoundland:	
Hanning Electric Co. Ltd.	St. John's
Québec:	
Cipel (Canada) Ltd. Hart Battery Co. (Canada) 1957 Limited. New Era Battery Company	170 St. Georges St., St. Johns
Ontario:	
Burgess Battery Company Electric Storage Battery Co. (Canada) Ltd. Electric Storage Battery Co. (Canada) Ltd. General Motors of Canada Limited Globelite Batteries (Eastern) Limited. Gould-National Batteries of Canada Ltd. Hay Battery Co. Ltd. Mallory Battery Company of Canada Limited Prest - O - Lite Battery Co. & Autolite Batteries of Canada Union Carbide Canada Limited Union Carbide Canada Limited	663 Warden Ave., Scarborough 2301 Dixie Road, Cooksville William St. E., Oshawa Maple St., Kingston 275 Lewis St., Fort Erle 1300 Barton St. E., Hamilton 228 St. Helen's Ave., Toronto 1352 Dufferin St., Toronto 805 Davenport Rd., Toronto
Manitoba:	
Globelite Batteries Ltd. Ray - O - Vac (Canada) Limited	
Alberta:	
Alberta Battery Co. Ltd. Electric Storage Battery Co. (Canada) Ltd. Globelite Batteries Ltd. Prest - O - Lite Battery Co. Ltd.	104-58th Ave. S.E., Calgary 510C-6th Street E., Calgary
British Columbia:	
Dollina Enterprises Ltd. Prancis Battery Service Giant Battery Co. Ltd. Globelite Batteries (B.C.) Ltd. Jones Bros. Batteries Major Batteries Ltd. Russell Batteries	1412 Quadra St., Victoria 1290 Howe St., Vancouver 202 *6 Road, Richmond 1314 Quadra St., Victoria 271 Ingram St., Duncan

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