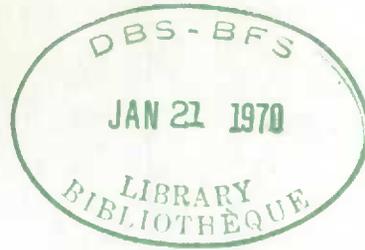


CATALOGUE No. <sup>43</sup>

43-208

ANNUAL

S.I.C.  
337



# BATTERY MANUFACTURERS 1968

ANNUAL CENSUS  
OF MANUFACTURES

*Published by Authority of*  
The Minister of Industry, Trade and Commerce

DOMINION BUREAU OF STATISTICS  
Manufacturing and Primary Industries Division

January 1970  
6506-533

Price: 25 cents

## SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- P preliminary figures.
- r revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

## NOTES TO USERS

1. The detailed explanations of "Concepts and Definitions" omitted from this report may be consulted in any 1965 report in this series. If not available to the user, the relevant pages may be obtained free of charge from the Manufacturing and Primary Industries Division of the Bureau.
2. In order to expedite the release of such basic statistics as materials and supplies used, and shipments of goods of own manufacture, the following tables have been omitted from this report:
  - (a) Principal statistics classified by manufacturing value added, by total value added, and by type of organization, last published in the 1966 report as Tables 3, 4 and 6, respectively.
  - (b) Principal statistics classified by shipments of goods of own manufacture and by total employed, last published in the 1967 report as Tables 2 and 3, respectively.

The above tables are available on request, however, from the Manufacturing and Primary Industries Division. Similarly, the list of establishments classified to the industry, omitted from this report in the interests of both timeliness and economy, is available on request. In the case of an extensive request involving a large number of industries, it may be necessary to levy a charge.

3. Users interested in obtaining the value of production (manufacturing activity) can do so by adding cost of materials and supplies used (manufacturing activity), cost of fuel and electricity, and value added (manufacturing activity). The resulting statistic is equivalent in concept to "gross output" shown in Table 7 of the 1966 report.

BATTERY MANUFACTURERS  
(S. I. C. 337)

1968

For statistical purposes the industry titled Battery Manufacturers covers the operations of establishments primarily engaged in manufacturing storage batteries including wet and dry batteries for automobiles, trucks, tractors and buses as well as storage batteries for farm use, communications systems and railroad equipment.

An analysis of the principal statistics for this industry indicates that the value of shipments for 1968 was 7.6 per cent greater than the value for 1967. During the same period the value of production increased by 4.3 per cent. The ratio of cost of materials used to value of production was 4.7 per cent in 1968, the ratio of manufacturing wages to production was 14.7 per cent in 1968 and the ratio of total salaries and wages of total value added was 46 per cent in 1968.

During 1968 the total value of battery shipments by firms classified to the industry represented 93 per cent of total value of products shipped. Other items shipped were carbon products, anti-freeze, flashlights and zinc sheet and strip.

TABLE 1. PRINCIPAL STATISTICS, 1961-68

Year and Province	Establishments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and electricity	Cost of materials and supplies	Value of shipments of goods of own manufacture	Value added	Working owners and partners		Employees		Value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
No.		'000			\$'000				\$'000		\$'000		
1961	27	1,377	3,034	5,390	499	20,385	39,649	18,742	-	-	2,080	9,368	20,826
1962	26	1,435	3,071	5,714	548	23,418	42,321	19,083	-	-	2,132	9,698	21,549
1963	25	1,449	3,046	5,992	522	24,872	46,074	20,042	-	-	2,143	9,902	21,914
1964	26	1,504	3,198	6,225	555	26,313	49,377	23,522	x	x	2,214	10,463	26,501
1965	23	1,566	3,292	6,748	614	30,511	54,129	24,728	-	-	2,362	11,259	26,730
1966	24	1,704	3,570	7,430	638	30,548	60,583	29,529	-	-	2,498	12,528	31,482
<b>1967</b>													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
New Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	3	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	12	1,100	2,317	5,676	399	19,929	38,433	17,214	-	-	1,707	9,939	20,658
Manitoba	2	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	2	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	4	56	109	217	23	849	1,497	527	-	-	68	285	520
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	24	1,687	3,530	8,204	633	30,393	58,651	26,817	-	-	2,515	13,751	30,368
<b>1968</b>													
Newfoundland	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island	-	-	-	-	-	-	-	-	-	-	-	-	-
New Scotia	1	x	x	x	x	x	x	x	-	-	x	x	x
New Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec	3	x	x	x	x	x	x	x	-	-	x	x	x
Ontario	12	1,117	2,298	6,195	439	21,022	38,433	17,139	-	-	1,755	10,767	22,433
Manitoba	2	x	x	x	x	x	x	x	-	-	x	x	x
Saskatchewan	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta	2	x	x	x	x	x	x	x	-	-	x	x	x
British Columbia	5	63	126	260	25	935	1,700	774	-	-	82	370	776
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals	25	1,704	3,498	8,876	697	33,029	60,168	26,642	-	-	2,558	14,830	32,293
<b>Percentage Change</b>													
1966-1967	-	- 1.0	- 1.1	- 10.4	- 0.8	- 0.5	- 3.2	- 9.0	-	-	+ 0.7	+ 9.8	- 3.2
1967-1968	+ 4.2	+ 1.0	- 0.9	+ 8.2	+ 10.1	+ 8.7	+ 2.6	- 0.9	-	-	+ 1.7	+ 7.8	+ 5.3

Table 2. EMPLOYMENT AND PAYROLL, 1967 AND 1968

Year and province	Employees										Salaries and wages				
	Production and related workers				Adminis- trative and office	Sales and distribution		Total		Production and related workers	Adminis- trative and office	Sales and distrib- ution	Total		
	Manufacturing		Other			Male	Female	Male	Female					Manufacturing	Other
	Male	Female	Male	Female	Male					Female	Male	Female			
	number										\$'000				
<u>1967</u>															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	-	-	x	x	-	-	x	x	x	-	x	-	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
Ontario .....	773	327	-	6	258	131	180	32	1,211	496	5,676	28	2,748	1,486	9,939
Manitoba .....	x	x	-	-	x	x	x	-	x	x	-	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
British Columbia .....	45	11	-	-	6	4	2	-	53	15	217	-	x	x	285
Yukon and Northwest Territories ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	1,215	472	-	6	387	182	220	33	1,822	693	8,204	28	3,716	1,803	13,751
<u>1968</u>															
Newfoundland .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nova Scotia .....	x	x	-	-	x	x	x	x	x	x	x	-	x	x	x
New Brunswick .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quebec .....	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
Ontario .....	792	325	-	5	270	128	195	40	1,257	498	6,195	26	2,780	1,766	10,767
Manitoba .....	x	x	-	-	x	x	x	-	x	x	-	-	x	x	x
Saskatchewan .....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alberta .....	x	x	-	-	x	x	x	-	x	x	x	-	x	x	x
British Columbia .....	54	9	-	-	9	4	6	-	69	13	760	-	74	36	370
Yukon and Northwest Territories ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Totals .....	1,247	457	-	5	387	183	238	41	1,872	681	8,876	26	3,807	2,122	14,830

Table 3. INVENTORIES, 1968

Province	Manufacturing				Non-manufacturing
	Materials, supplies, etc.	Goods in process	Finished goods of own manufacture	Total	Products or materials purchased for resale
book value \$'000					
<u>Opening</u>					
Newfoundland .....	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-
Nova Scotia .....	x	x	x	x	-
New Brunswick .....	-	-	-	-	-
Quebec .....	x	x	x	x	x
Ontario .....	2,351	2,642	2,834	7,827	968
Manitoba .....	x	x	x	x	x
Saskatchewan .....	-	-	-	-	-
Alberta .....	x	x	x	x	x
British Columbia .....	259	44	43	346	11
Yukon and Northwest Territories ..	-	-	-	-	-
Totals .....	4,309	3,497	4,536	12,342	1,096
<u>Closing</u>					
Newfoundland .....	-	-	-	-	-
Prince Edward Island .....	-	-	-	-	-
Nova Scotia .....	x	x	x	x	-
New Brunswick .....	-	-	-	-	-
Quebec .....	x	x	x	x	x
Ontario .....	2,387	2,719	2,924	8,030	1,082
Manitoba .....	x	x	x	x	x
Saskatchewan .....	-	-	-	-	-
Alberta .....	x	x	x	x	x
British Columbia .....	253	50	72	375	11
Yukon and Northwest Territories ..	-	-	-	-	-
Totals .....	4,367	3,517	4,716	12,601	1,184

TABLE 4. PURCHASED FUEL AND ELECTRICITY USED, 1967 AND 1968

Description	1967		1968	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
<b>1. Large establishments reporting commodity detail</b>				
Bituminous coal:				
(a) From Canadian mines .....	ton	-	-	-
(b) Imported .....	"	322	330	5
Sub-bituminous coal (from Alberta mines only) .....	"	-	-	-
Anthracite coal .....	"	-	-	-
Lignite coal .....	"	386	378	2
Coke .....	"	-	-	-
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	9,147	10,226	5
Fuel oil including kerosene or coal oil .....	"	678,151	559,341	61
Wood .....	cord	-	-	-
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	79,037	90,865	25
(b) Other manufactured gas .....	M cu. ft.	-	-	-
(c) Natural gas .....	"	172,019	185,809	133
Other fuel .....		-	-	-
Electricity purchased .....	kwh.	40,079,562	46,280,156	456
Steam purchased .....		-	-	-
<b>2. Small establishments not reporting commodity detail</b>				
Estimate for fuel and electricity .....		9		9
<b>3. All establishments</b>				
Total fuel and electricity used .....		633		697

TABLE 5. MATERIALS AND SUPPLIES - MANUFACTURING ACTIVITY, 1967 AND 1968

Description	1967		1968	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
<b>1. Large establishments reporting commodity detail:</b>				
<b>Materials used:</b>				
Ammonium chloride (sal ammoniac) .....	lb.	1,454,306	1,519,448	108
Battery boxes and containers .....		4,651	...	4,851
Carbon plates, blanks, etc. ....		360	...	362
Carbon electrodes .....		232	...	238
Graphite .....	lb.	87,576	175,634	17
Insulating waxes .....		11	...	11
Lead oxide:				
Litharge .....	lb.	8,235,742	1,177	14,535,523
Red lead .....	"	564,467	95	319,195
Manganese dioxide .....	"	4,798,762	565	5,056,570
Sulphuric acid, 100% .....	"	10,621,758	177	10,884,524
Battery separators:				
Paper/phenolic .....		762	...	670
Rubber .....		866	...	824
Other .....		110	...	357
Zinc chloride .....	lb.	1,092,585	83	1,054,673
Iron and steel .....		366	...	350
Non-ferrous metals (all forms):				
Brass and bronze .....	lb.	47,971	39	112,356
Copper:				
Wire, bare .....	"	5,830	5	6,031
Wire, insulated .....	"	...	12	7
Other forms .....	lb.	42,153	27	31
Lead:				
Pig (pure) .....	"	30,095,312	4,477	32,222,535
Antimonial .....	"	36,218,778	5,648	39,224,551
Other forms .....	"	3,285,330	392	266
Mercury .....	"	8,616	59	9,776
Zinc (all forms) .....	"	...	853	...
Other non-ferrous metals .....		12	...	9
Asphalt and pitch .....		53	...	75
Paint, stains, lacquers, etc. ....		33	...	40
All other materials and components used .....		6,399	...	6,590

TABLE 5. MATERIALS AND SUPPLIES - MANUFACTURING ACTIVITY, 1967 AND 1968 - (continued)

Description	1967		1968	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
2. Small establishments not reporting commodity detail .....	...	278	...	279
3. Containers and other packaging materials and supplies used:				
Folding and set-up boxes, paperboard .....	...	166	...	186
Corrugated boxes and cartons .....	...	498	...	560
Wooden boxes, crates, barrels and kegs .....	...	52	...	49
Paper, all kinds .....	...	2	...	179
Labels, tags and printed wrappers .....	...	170	...	386
All other .....	...	608	...	555
4. Operating, maintenance and repair supplies used (excluding fuel) .....	...	792	...	1,043
5. Amount paid out to others for work done on materials owned by establishments .....	...	251	...	212
Totals .....	...	30,393	...	33,029

TABLE 6. SHIPMENTS OF GOODS OF OWN MANUFACTURE, 1967 AND 1968

Description	Value	
	1967	1968
	\$'000	
1. All products shipped (see Table 7 for details on selected commodities) .....	57,964	61,153
2. Amount received in payment for work done on materials and products owned by others .....	1,011	91
Less adjustment for value of sales taxes, excise duties and outward transportation charges .....	(323)	(1,077)
Total adjusted value of shipments and work done .....	58,651	60,168

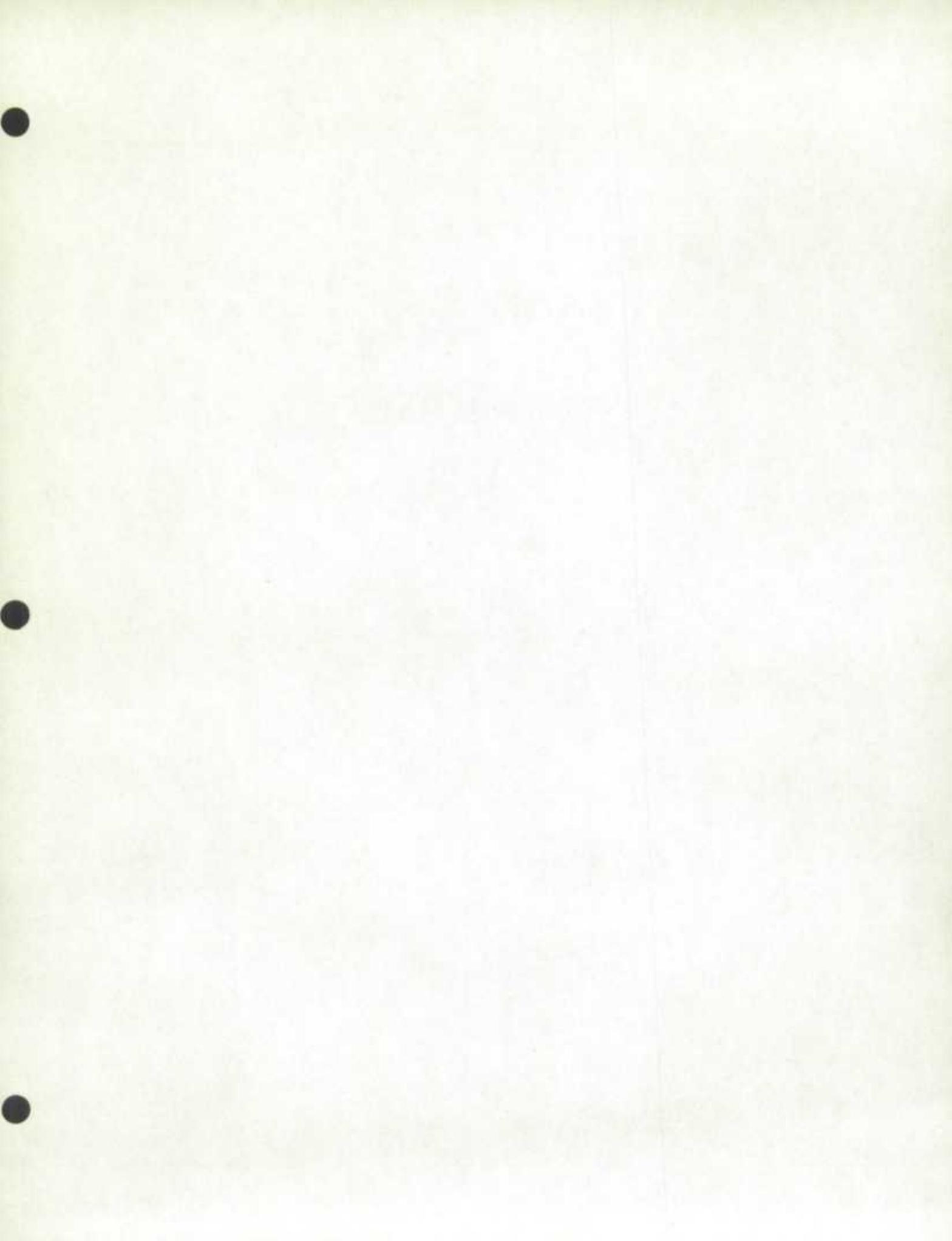
TABLE 7. SHIPMENTS OF SELECTED GOODS OF OWN MANUFACTURE - ALL INDUSTRIES, 1967 AND 1968

(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Type	1967		1968	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
<b>A. Dry cell batteries</b>				
6-inch batteries .....	No. of cells	1,378,965	1,413,352	825
Radio batteries for portable sets .....	"	59,252,777	55,765,711	4,947
Radio batteries for non-portable sets .....	"	4,960,354	6,645,344	605
Flashlight batteries .....	"	49,070,908	45,944,303	6,231
Hearing-aid batteries:				
"A" batteries .....	}	...	...	2,764
"B" batteries .....				
All other dry batteries .....		2,597		
Totals .....	...	14,607	...	15,372
<b>B. Electric storage batteries</b>				
Automotive type (all types primarily designed to fit passenger cars):				
For initial installation .....	battery	862,767(1)	1,043,577(1)	..
For replacement purposes .....	"	2,334,028	2,324,886	23,813
Heavy-duty transport, motor coach and diesel starting batteries:				
For initial installation .....	"	102,097(1)	173,100(1)	..
For replacement purposes .....	"	141,478	134,136	2,663
Marine .....	"	6,745	10,676	242
For farm lighting .....	"	x	x	-
For railway service (excluding railroad signalling but including diesel starting, air conditioning, car lighting) .....	cell	31,513	25,304	889
For direct motive power (industrial truck, mine locomotive, etc.) .....	"	42,039	48,836	3,677
For all other purposes (aircraft, motorcycle, communication, etc.) .....		...	...	3,523
Totals .....	...	..	...	..

(1) Includes "Captive" batteries produced for initial installation in own vehicles.









STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010646262