

CATALOGUE No.

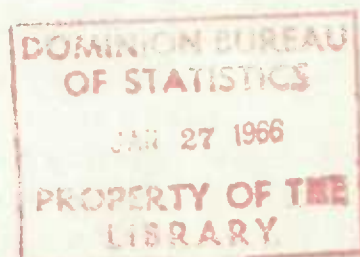
43-208

ANNUAL



# BATTERY MANUFACTURERS

1963



ANNUAL CENSUS  
OF MANUFACTURES

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

DOMINION BUREAU OF STATISTICS  
Industry Division

January 1966  
6521-837

Price: 50 cents

## PUBLICATIONS

In addition to the report, on this industry, the DBS publishes annual statistics on a number of related industries and current statistics on the more important commodities. Copies of reports provided in the following list are available from the Information and Public Relations Division of the DBS, Ottawa or from the Queen's Printer, Hull, P.Q.

Catalogue number	Title	Periodicity	Price	
			Per copy	Per year
31-001	Inventories, Shipments and Orders in Manufacturing Industries .....	M		\$4.00
31-201	General Review of the Manufacturing Industries of Canada .....	A	\$2.00	2.00
43-203	Manufacturers of Small Electrical Appliances .....	A	.50	.50
43-204	Manufacturers of Major Appliances (Electric and Non-electric) .....	A	.50	.50
43-205	Manufacturers of Household Radio and Television Receivers .....	A	.50	.50
43-206	Communications Equipment Manufacturers .....	A	.50	.50
43-207	Manufacturers of Electrical Industrial Equipment .....	A	.50	.50
43-208	Battery Manufacturers .....	A	.50	.50
43-209	Manufacturers of Electric Wire and Cable .....	A	.50	.50
43-210	Manufactures of Miscellaneous Electrical Products .....	A	.50	.50
65-004	Exports by Commodities .....	M	.75	7.50
65-007	Imports by Commodities .....	M	.75	7.50

A — Annual

M — Monthly

Remittances should be in the form of cheque or money order, made payable to the Receiver General of Canada and forwarded to the Information and Public Relations Division, Ottawa or to the Queen's Printer, Hull, P.Q.

## BATTERY MANUFACTURERS

1963

Data presented in this report reflect implementation of the revised Standard Industrial Classification (S.I.C.) and the New Establishment Concept which are being used by the Dominion Bureau of Statistics in its compilation of industry statistics—see item “Standard Industrial Classification” and “Establishment” in the Explanatory Notes section of this report. 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.

### 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.
- preliminary figures.
- revised figures.
- x confidential to meet secrecy requirements of the Statistics Act.

TABLE 1A. Principal Statistics classified by Province, 1962 and 1963

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		Total employees		Total value added
		Number	Man-hours paid	Wages					Number	Withdrawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1961													
Totals .....	27	1,377	3,034	5,390	499	20,385	39,649	18,742	—	—	2,080	9,368	20,826
1962													
Newfoundland .....	1	1,112	2,416	4,603	428	17,999	33,035	15,106	—	—	1,659	7,839	17,593
Prince Edward Island .....	—												
Nova Scotia .....	1												
New Brunswick .....	—												
Quebec .....	4												
Ontario .....	10	275	557	931	98	4,816	8,259	3,537	—	—	410	1,809	3,498
Manitoba .....	3												
Saskatchewan .....	—												
Alberta .....	2	48	98	180	22	603	1,027	440	—	—	63	250	458
British Columbia .....	5												
Yukon and Northwest Territories	—												
Totals .....	26	1,435	3,071	5,714	548	23,418	42,321	19,083	—	—	2,132	9,698	21,549
1963													
Newfoundland .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	1	x	x	x	x	x	x	x	x	x	x	x	x
New Brunswick .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Quebec .....	3	x	x	x	x	x	x	x	x	x	x	x	x
Ontario .....	11	946	2,011	4,088	329	16,583	30,768	13,597	—	—	1,438	7,014	15,181
Manitoba .....	3	x	x	x	x	x	x	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—
Alberta .....	2	x	x	x	x	x	x	x	x	x	x	x	x
British Columbia .....	5	48	102	200	21	690	1,167	467	—	—	63	280	488
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals .....	25	1,449	3,046	5,992	522	24,872	46,074	20,042	—	—	2,143	9,902	21,914



TABLE 1B. Principal Statistics classified by Size Groups based on Shipments of Goods of Own Manufacture, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
<b>1962</b>													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	—	—	—	—	—	—	—	—	—	—	—	—	—
25,000 " 49,999	6	19	35	63	7	107	240	130	—	—	27	89	144
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	—	—	—	—	—	—	—	—	—	—	—	—	—
200,000 " 499,999	6	133	259	395	57	1,365	2,767	1,522	—	—	170	592	2,245
500,000 " 999,999	—	—	—	—	—	—	—	—	—	—	—	—	—
1,000,000 " 4,999,999	14	1,283	2,777	5,256	484	21,947	39,314	17,431	—	—	1,809	8,110	19,216
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	126	908	(56)
<b>Totals</b>	<b>26</b>	<b>1,435</b>	<b>3,071</b>	<b>5,714</b>	<b>548</b>	<b>23,418</b>	<b>42,321</b>	<b>19,083</b>	<b>—</b>	<b>—</b>	<b>2,132</b>	<b>9,698</b>	<b>21,549</b>
<b>1963</b>													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	4	8	16	29	1	56	115	61	—	—	11	43	98
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	6	101	213	329	31	1,139	2,156	1,038	—	—	132	507	1,052
200,000 " 499,999	—	—	—	—	—	—	—	—	—	—	—	—	—
500,000 " 999,999	—	—	—	—	—	—	—	—	—	—	—	—	—
1,000,000 " 4,999,999	15	1,340	2,817	5,634	490	23,677	43,803	18,943	—	—	1,863	8,340	20,820
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	137	1,013	(56)
<b>Totals</b>	<b>25</b>	<b>1,449</b>	<b>3,046</b>	<b>5,992</b>	<b>522</b>	<b>24,872</b>	<b>46,074</b>	<b>20,042</b>	<b>—</b>	<b>—</b>	<b>2,143</b>	<b>9,902</b>	<b>21,914</b>

TABLE 1C. Principal Statistics classified by Size Groups based on Manufacturing Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies used	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			'000				'000		'000	
<b>1962</b>													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	6	19	35	63	7	107	240	130	—	—	27	89	144
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	—	—	—	—	—	—	—	—	—	—	—	—	—
100,000 " 199,999	6	156	319	562	53	2,264	3,571	1,319	—	—	218	842	1,353
200,000 " 499,999	—	—	—	—	—	—	—	—	—	—	—	—	—
500,000 " 999,999	14	1,260	2,718	5,089	488	21,047	38,510	17,634	—	—	1,761	7,859	20,109
1,000,000 " 4,999,999	—	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	126	908	(56)
<b>Totals</b>	<b>26</b>	<b>1,435</b>	<b>3,071</b>	<b>5,714</b>	<b>548</b>	<b>23,418</b>	<b>42,321</b>	<b>19,083</b>	<b>—</b>	<b>—</b>	<b>2,132</b>	<b>9,698</b>	<b>21,549</b>
<b>1963</b>													
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—
\$ 10,000 to \$ 24,999	4	8	16	29	1	56	115	61	—	—	11	43	98
25,000 " 49,999	—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999	3	29	57	96	6	259	549	274	—	—	39	163	274
100,000 " 199,999	—	—	—	—	—	—	—	—	—	—	—	—	—
200,000 " 499,999	6	198	423	772	98	3,680	6,149	2,196	—	—	276	1,178	2,217
500,000 " 999,999	4	203	423	690	67	3,439	7,122	3,462	—	—	302	1,231	3,482
1,000,000 " 4,999,999	8	1,011	2,126	4,406	350	17,438	32,140	14,049	—	—	1,378	6,274	15,899
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	137	1,013	(56)
<b>Totals</b>	<b>25</b>	<b>1,449</b>	<b>3,046</b>	<b>5,992</b>	<b>522</b>	<b>24,872</b>	<b>46,074</b>	<b>20,042</b>	<b>—</b>	<b>—</b>	<b>2,143</b>	<b>9,902</b>	<b>21,914</b>

TABLE 1 D. Principal Statistics classified by Size Groups based on Total Value Added, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity						
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added		
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages			
	No.		'000			\$'000				\$'000		\$'000			
1962															
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—		
\$ 10,000 to \$ 24,999	}	6	19	35	63	7	107	240	130	—	—	27	89	144	
25,000 " 49,999			—	—	—	—	—	—	—	—	—	—	—	—	
50,000 " 99,999			}	6	156	319	562	53	2,264	3,571	1,319	—	—	218	842
100,000 " 199,999	—	—			—	—	—	—	—	—	—	—	—	—	
200,000 " 499,999	}	4			201	424	687	83	3,005	5,726	2,858	—	—	264	1,030
500,000 " 999,999			10	1,059	2,293	4,402	405	18,043	32,785	14,776	—	—	1,497	6,829	17,239
1,000,000 " 4,999,999			—	—	—	—	—	—	—	—	—	—	—	—	—
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	126	908	(56)	
Totals	26	1,435	3,071	5,714	548	23,418	42,321	19,083	—	—	2,132	9,698	21,549		
1963															
Under \$10,000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
\$ 10,000 to \$ 24,999	}	4	8	16	29	1	56	115	61	—	—	11	43	98	
25,000 " 49,999			—	—	—	—	—	—	—	—	—	—	—	—	—
50,000 " 99,999			}	3	29	57	96	6	259	549	274	—	—	39	163
100,000 " 199,999	—	—			—	—	—	—	—	—	—	—	—	—	—
200,000 " 499,999	6	198			423	772	98	3,680	6,149	2,196	—	—	276	1,178	2,217
500,000 " 999,999	4	254	537	933	83	4,145	7,807	3,496	—	—	336	1,334	3,459		
1,000,000 " 4,999,999	8	960	2,012	4,163	334	16,733	31,455	14,016	—	—	1,344	6,172	15,922		
5,000,000 and over	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Head offices, sales offices and auxiliary units	...	...	...	...	...	...	...	...	...	...	...	137	1,013	(56)	
Totals	25	1,449	3,046	5,992	522	24,872	46,074	20,042	—	—	2,143	9,902	21,914		

TABLE 1 E. Principal Statistics classified by Size Groups based on Total Employed, 1962 and 1963

Size group	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Under 5 employed .....	6	19	35	63	7	107	240	130	—	—	27	89	144
5- 14 employed .....		7	171	340	542	82	2,447	4,608	2,305	—	—	217	800
15- 49 " .....	5	207	448	872	103	4,617	8,751	4,591	—	—	348	1,577	4,878
50- 99 " .....		8	1,038	2,249	4,237	356	16,247	28,722	12,057	—	—	1,414	6,324
100-199 " .....	—	—	—	—	—	—	—	—	—	—	—	—	—
200-499 " .....		—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	126	908	(56)
Head offices, sales offices and auxiliary units .....	26	1,435	3,071	5,714	548	23,418	42,321	19,083	—	—	2,132	9,698	21,549
Totals .....													
1963													
Under 5 employed .....	5	10	20	36	3	90	204	111	—	—	15	56	148
5- 14 employed .....	7	161	342	563	76	2,727	5,226	2,276	—	—	211	852	2,296
15- 49 " .....	6	326	683	1,253	120	5,606	10,957	5,023	—	—	481	2,095	5,060
50- 99 " .....	4	463	977	2,264	217	10,488	16,998	6,138	—	—	584	2,871	6,098
100-199 " .....	3	489	1,024	1,876	106	5,961	12,689	6,494	—	—	715	3,016	8,367
200-499 " .....	—	—	—	—	—	—	—	—	—	—	—	—	—
500 employed and over .....	...	...	...	...	...	...	...	...	...	...	137	1,013	(56)
Head offices, sales offices and auxiliary units .....	25	1,449	3,046	5,992	522	24,872	46,074	20,042	—	—	2,143	9,902	21,914
Totals .....													

TABLE 1 F. Principal Statistics classified by Type of Organization, 1962 and 1963

Type of organization	Estab- lish- ments	Manufacturing activity							Total activity				
		Production and related workers			Cost of fuel and elec- tricity	Cost of materials and supplies	Value of shipments of goods of own manu- facture	Value added	Working owners and partners		Total employees		Total value added
		Number	Man- hours paid	Wages					Number	With- drawals	Number	Salaries and wages	
	No.		'000			\$'000				\$'000		\$'000	
1962													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	26	1,435	3,071	5,714	548	23,418	42,321	19,083	-	-	2,006	8,790	21,605
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	126	908	(56)
Totals .....	26	1,435	3,071	5,714	548	23,418	42,321	19,083	-	-	2,132	9,698	21,549
1963													
Individual ownerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Partnerships .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Incorporated companies .....	25	1,449	3,046	5,992	522	24,872	46,074	20,042	-	-	2,006	8,890	21,970
Cooperatives .....	-	-	-	-	-	-	-	-	-	-	-	-	-
Head offices, sales offices and auxiliary units .....	...	...	...	...	...	...	...	...	...	...	137	1,013	(56)
Totals .....	25	1,449	3,046	5,992	522	24,872	46,074	20,042	-	-	2,143	9,902	21,914

TABLE 2. Industry Output, Input and Value Added, 1962 and 1963

	Manufacturing activity		Non-manufacturing activities		Total activity	
	1962	1963	1962	1963	1962	1963
	\$'000					
Output						
1. Shipments and other revenue .....	42,321	46,074	7,132	6,500	49,453	52,574
Inventories - Goods of own manufacture:						
Add closing - Goods in process .....	2,775	2,503	...	...	2,775	2,503
Finished goods .....	3,785	3,238	...	...	3,785	3,238
Less opening - Goods in process .....	2,487	2,510	...	...	2,487	2,510
Finished goods .....	3,345	3,868	...	...	3,345	3,868
2. Net inventory change .....	728	(637)	...	...	728	(637)
3. Gross output (1 + 2) .....	43,049	45,437	7,132	6,500	50,181	51,937
Input						
4. Purchases of goods not of own manufacture .....	...	...	4,426	4,217	4,426	4,217
Inventories - Goods not of own manufacture:						
Add opening .....	...	...	956	996	956	996
Less closing .....	...	...	996	880	996	880
5. Cost of goods sold (not of own manufacture) .....	...	...	4,386	4,333	4,386	4,333
6. Materials, supplies, components and semi-processed goods .....	23,418	24,872	279	296	23,697	25,168
7. Fuel and electricity .....	548	522	...	...	548	522
8. Gross input (5 + 6 + 7) .....	23,966	25,394	4,665	4,629	28,631	30,023
Census value added (3 - 8) .....	19,083	20,042	2,467	1,872	21,549	21,914



TABLE 3. Employment and Payroll, 1962 and 1963

Year and province	Employees										Salaries and wages					
	Production and related workers				Adminis- trative and office		Sales and distribution		Total employees		Production and related workers		Admin- istrative and office	Sales and distri- bution	Total salaries and wages	
	Manufacturing		Other													
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Manufacturing	Other				
	number										\$'000					
1962																
Newfoundland .....	}	804	308	—	6	273	104	148	16	1,225	434	4,604	20	2,178	1,038	7,839
Prince Edward Island .....																
Nova Scotia .....																
New Brunswick .....																
Quebec .....																
Ontario .....	}	203	72	—	—	65	33	36	1	304 <sup>r</sup>	106 <sup>r</sup>	931	—	470	208	1,609
Manitoba .....																
Saskatchewan .....																
Alberta .....																
British Columbia .....																
Yukon and Northwest Terri- tories .....		40	8	—	—	11	3	1	—	52	11	180	—	66	4	250
Totals .....		1,047	388	—	6	349	140	185	17	1,581	551	5,714	20	2,714	1,250	9,698
1963																
Newfoundland .....		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Prince Edward Island .....		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	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	x	x	x	x	x
Ontario .....	662	284	—	7	221	112	130	22	1,013	425	4,088	23	1,963	939	7,014	
Manitoba .....	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Saskatchewan .....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Alberta .....	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
British Columbia .....	39	9	—	—	10	3	2	—	51	12	200	—	73	7	280	
Yukon and Northwest Terri- tories .....		—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Totals .....		1,056	393	—	7	333	164	168	22	1,557	586	5,992	23	2,705	1,182	9,902

TABLE 3A. Production and Related Workers, — Manufacturing Activity, by Months, 1962 and 1963

Month	Establishments reporting monthly detail			
	1962		1963	
	Male	Female	Male	Female
	number			
January .....	1,029	387	995	328
February .....	1,042	398	992	320
March .....	1,034	397	960	330
April .....	998	386	982	350
May .....	993	391	1,001	383
June .....	1,013	383	1,055	416
July .....	1,013	367	1,007	413
August .....	1,086	386	1,098	420
September .....	1,104	409	1,125	427
October .....	1,094	400	1,144	432
November .....	1,078	374	1,161	477
December .....	1,067	370	1,138	426
Average for establishments reporting monthly detail (collected only for large establishments) ..	1,047	388	1,056	393
Average for small establishments (only annual averages collected) .....	...	...	...	...
Average for all establishments .....	1,047	388	1,056	393

TABLE 4. Industry Inventories, 1963

Province	Manufacturing				Non-manufacturing	Total inventories
	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total manufacturing	Products or materials purchased for resale	
book value \$'000						
Opening:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	—	—	—	—	—	—
Quebec .....	x	x	x	x	x	x
Ontario .....	1,683	1,649	2,455	5,787	781	6,568
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	x	x	x	x	x
British Columbia .....	157	31	174	363	1	364
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	3,166	2,510	3,868	9,544	996	10,540
Closing:						
Newfoundland .....	—	—	—	—	—	—
Prince Edward Island .....	—	—	—	—	—	—
Nova Scotia .....	x	x	x	x	x	x
New Brunswick .....	—	—	—	—	—	—
Quebec .....	x	x	x	x	x	x
Ontario .....	2,212	1,819	2,027	6,058	713	6,771
Manitoba .....	x	x	x	x	x	x
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	x	x	x	x	x	x
British Columbia .....	159	28	189	376	2	377
Yukon and Northwest Territories .....	—	—	—	—	—	—
Totals .....	3,931	2,503	3,238	9,671	880	10,551

TABLE 5. Purchased Fuel and Electricity Used in Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
1. Large establishments which reported commodity detail:				
Bituminous coal:				
(a) From Canadian mines .....	ton	—	250	3
(b) Imported .....	"	399	—	—
Sub-bituminous coal (from Alberta mines only) .....	"	—	—	—
Anthracite coal .....	"	328	350	4
Lignite coal .....	"	556	482	3
Coke .....	"	—	—	—
Gasoline (including gasoline used in cars and trucks) .....	Imp. gal.	15,715	21,180	9
Fuel oil including kerosene or coal oil .....	"	769,196	750,829	76
Wood .....	cord	—	—	—
Gas:				
(a) Liquefied petroleum gases .....	Imp. gal.	—	27,070	4
(b) Other manufactured gas .....	M cu.ft.	—	—	—
(c) Natural gas .....	"	96,110	111,437	87
Other fuel .....	...	30	...	11
Electricity purchased .....	kwh.	34,081,183	34,155,647	326
Steam purchased .....	...	—	...	—
2. Estimate for small establishments:				
Fuel and electricity .....	...	16	...	...
3. All establishments:				
Total fuel and electricity used .....	...	548	...	522

TABLE 6. Materials and Supplies — Manufacturing Activity, 1962 and 1963

Description	1962		1963	
	Quantity	Cost	Quantity	Cost
		\$'000		\$'000
<b>1. Materials used:</b>				
Ammonium chloride (sal ammoniac) .....	lb. 1,405,160	70	1,274,044	80
Battery boxes and containers .....	...	4,015	...	3,629
Carbon plates, blanks, etc. ....	...	307	...	340
Carbon electrodes .....	...	205	...	209
Graphite .....	lb. 503,157	22	316,039	16
Insulating waxes .....	...	21	...	19
Lead oxide:				
Litharge .....	lb. 9,221,116	1,038	10,761,950	1,293
Red lead .....	" 259,311	33	225,771	30
Manganese dioxide .....	" 3,872,009	395	4,037,317	434
Sulphuric acid, 100% .....	" 8,216,546	128	8,302,620	131
Battery separators:				
Wood .....	...	3	...	1
Other .....	...	1,486	...	1,573
Zinc chloride .....	lb. 717,767	55	712,225	54
Iron and steel:				
Stampings .....	ton 11	5	27	12
Other forms .....	...	212	...	263
Non-ferrous metals (all forms):				
Brass and bronze .....	lb. 10,610	7	5,336	6
Copper:				
Wire, bare .....	" 10,228	6	4,353	3
Wire, insulated .....	...	10	...	8
Other forms .....	lb. 36,952	15	50,366	20
Lead:				
Pig (pure) .....	" 24,945,053	2,483	25,129,806	2,521
Antimonial .....	" 28,742,551	3,113	31,944,220	3,645
Other forms .....	" 250,973	33	296,438	39
Mercury .....	" 3,020	8	4,242	12
Zinc (all forms) .....	...	707	...	750
Other non-ferrous metals .....	...	4	...	43
Asphalt and pitch .....	...	103	...	92
Paint, stains, lacquers, etc. ....	...	6	...	5
All other materials and components used .....	...	7,272	...	7,798
<b>2. Containers and other packaging materials and supplies used</b> .....	...	813	...	802
<b>3. Operating, maintenance and repair supplies used (excluding fuel)</b> .....	...	778	...	787
<b>4. Amount paid out to others for work done on materials owned by establishments</b> .....	...	65	...	258
<b>Totals</b> .....	...	23,418	...	24,872

TABLE 7. Shipments of Goods of Own Manufacture, 1962 and 1963

Description	Value	
	1962	1963
	\$'000	
<b>1. All products shipped (see Table 8)</b> .....	43,265	46,419
<b>2. Amount received in payment for work done on materials and products owned by others</b> .....	15	16
Less adjustment for value of sales taxes, excise duties and outward transportation charges which could not be deducted from individual commodity items described above .....	(960)	(361)
Net adjustment for establishments receiving progress payments .....	—	—
<b>Total adjusted value of shipments and work done</b> .....	42,321	46,074



**TABLE 8. Shipments of Selected Goods of Own Manufacture — All Industries, 1962 and 1963**  
(Includes shipments from other industries which manufacture, as a secondary activity, the commodities listed)

Type	1962		1963	
	Quantity	Value	Quantity	Value
		\$'000		\$'000
<b>A. Dry cell batteries:</b>				
6-inch batteries ..... No. of cells	1,817,541	1,179	1,795,806	1,332
Radio batteries for portable sets .....	37,641,529	2,402	43,104,106	3,183
Radio batteries for non-portable sets .....	7,484,080	624	5,460,545	465
Flashlight batteries .....	43,158,738	5,113	41,479,826	5,250
Hearing-aid batteries:				
"A" batteries .....	}	1,242	...	1,756
"B" batteries .....				
All other dry batteries .....				
<b>Totals</b> .....	...	10,560	...	11,986
<b>B. Electric storage batteries:</b>				
Automotive type (all types primarily designed to fit passenger cars):				
For initial installation ..... batteries	503,157	4,231	626,445	5,538
For replacement purposes .....	2,193,309	18,530	2,282,785	19,055
Heavy-duty transport, motor coach and diesel starting batteries:				
For initial installation .....	46,295	541	54,526	745
For replacement purposes .....	117,455	2,031	98,795	1,716
Marine .....	3,402	190	5,522	240
For farm lighting .....	8,050	137	6,762	132
For railway service (excluding railroad signalling but including diesel starting, air conditioning, car lighting) .....	19,688	786	26,177	1,050
For direct motive power (industrial truck, mine locomotive, etc.) .....	35,113	2,333	35,968	2,345
For all other purposes (aircraft, motorcycle, communication, etc.) .....	...	2,254	...	2,059
<b>Totals</b> .....	...	31,033	...	32,880

**List of Establishments classified to This Industry, 1963**

(Does not include establishments classified to other industries, which as a secondary activity, manufacture products typical of this industry)

Name	Location
<b>Nova Scotia:</b>	
Surette Battery Co. Ltd. ....	Springhill
<b>Québec:</b>	
Cipel (Canada) Ltd. ....	Valleyfield
Electric Storage Battery Co. (Canada) Ltd. ....	170 St. Georges St., St. Johns
Prest O Lite Ltd. (Battery Division) .....	Drummondville
<b>Ontario:</b>	
Burgess Battery Company .....	415 Buttrey St., Niagara Falls
Electric Storage Battery Co. (Canada) Ltd., The .....	633 Warden Avenue, Scarborough
Electric Storage Battery Co. (Canada) Ltd., The .....	2301 Dixie Rd., Toronto Township
Globelite Batteries Limited .....	1290 Bellamy Rd., Scarborough
Gould-National Batteries of Canada Ltd. ....	Fort Erie
Hay Battery Co., Ltd. ....	1300 Barton St. E., Hamilton
Mallory Battery Company of Canada Limited .....	Clarkson
Prest O Lite Ltd. (Battery Div.) .....	1352 Dufferin Street, Toronto 4
Silvercel of Canada Ltd. ....	10 Wickman Rd. Toronto 18
Union Carbide Canada Limited .....	805 Davenport Rd., Toronto 4
Union Carbide Canada Limited .....	Walkerton
<b>Manitoba:</b>	
Allan Batteries Ltd. ....	1376 Winnipeg Ave., Winnipeg
Globelite Batteries Ltd. ....	1717 Wellington Ave., Winnipeg 21
Ray-O-Vac (Canada) Limited .....	1800 Sargent Ave., St. James
<b>Alberta:</b>	
Electric Storage Battery Co. (Canada) Ltd. The .....	104 — 58th Avenue S.E., Calgary
Prest O Lite Ltd. (Battery Division) .....	58th Ave & 4th St. S.E., Calgary
<b>British Columbia:</b>	
Dollina Enterprises Ltd. ....	901 E Hastings St. Vancouver 4
Francis Battery & Tires Ltd. ....	2150 Blanshard St., Victoria
Giant Battery Co. Ltd. ....	1290 Howe St., Vancouver 1
Globelite Batteries Ltd. (Pacific Division) .....	Richmond
Major Batteries Ltd. ....	Duncan



# CONCEPTS AND DEFINITIONS

## Census of Manufactures

### General

The Census of Manufactures is an annual mail survey covering Canada's Manufacturing Industries. It is based on the Standard Classification of Industries and full details concerning the system may be found in the Standard Industrial Classification manual, Catalogue No. 12-501 which is available from the Queen's Printer or the Dominion Bureau of Statistics. In summary, the Classification as it relates to the manufacturing industries provides for a breakdown into 140 industries arranged in 20 major industry groups. Of the 140 (3 digit) industries, 18 are further broken down into 58 (4 digit) sub classes. At the Canada level, principal statistics are collected and compiled for 178 separate industries. They cannot all be published separately by province, however, because of the confidential nature of the data in certain provinces.

The reporting unit for the Census is designated as the **establishment** (see definition of "Establishment" in following section) and a return is requested from every establishment classified to a manufacturing industry. Although respondents are required to submit reports covering the calendar year, financial year reports other than the calendar year are accepted in instances where respondents find it impossible to supply calendar year data from accounting records. When an establishment is operated for only part of a year a report is required covering the period of operation.

There are four different questionnaires used in the Census of Manufactures; (a) short form (b) long form (c) head office questionnaire and (d) commodity questionnaire. The short and long forms are used to obtain principal statistics and commodities shipped from establishments classified to manufacturing industries and differ only in the amount of detail requested. The short form is a single-sheet questionnaire sent to small manufacturers generally reporting shipments of less than \$100,000; this cut-off, however, varies somewhat between industries. The head office questionnaire is generally used for company head offices and/or auxiliary units separately located from the manufacturing establishment(s), (see following notes on Head offices and auxiliary units). The Commodity questionnaire is used to survey certain establishments which are coded (on the basis of their principal activity) to industries other than manufacturing in the Standard Industrial Classification system, but which undertake some manufacturing as a subsidiary activity. This single-sheet questionnaire is designed to collect information on the quantity and value of goods of own manufacture shipped by such establishments in order to achieve full coverage of domestically manufactured commodities (see the following note under Shipments).

The results of the Census are presented in some 140 publications. In addition to these annual industry publications there are annual summary reports for Canada and the provinces and special reports giving principal statistics by detailed geographic areas, by type of ownership and size of establishment. A special annual report covering the shipments of all manufactured commodities arranged in alphabetical order is also published.

Since 1960 the following major changes have been implemented in the Census of Manufactures: (a) a revised Standard Industrial Classification (b) a new establishment definition and (c) an extension of the establishment definition to cover the non-manufacturing activities of manufacturing establishments. The statistics presented in the various 1963 reports reflect the complete implementation of these changes and enable comparisons to be made with the years 1961 and 1962. For a complete description of the procedures followed in establishing the revised series, reference should be made to the Explanatory Notes included in the 1960, 1961 and 1962 industry publications. The statistical framework within which the Census of Manufactures is now carried out is based on the following concepts and definitions which have been developed as part of a general programme to achieve a fully integrated system of economic statistics.

### Establishment

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing activities. The majority of such establishments are firms but many firms have more than one establishment. Such firms are requested to submit a separate Census of Manufactures report for each manufacturing establishment which can meet the reporting requirements embodied in the following definition of the "establishment":

"The smallest unit which is a separate operating entity capable of reporting the following principal statistics:

- Materials and supplies used
- Goods purchased for resale as such
- Fuel and power consumed
- Number of employees and salaries and wages
- Man-hours worked and paid
- Inventories
- Shipments or sales."

Each establishment is required to report on all the activities carried out within its accounting boundaries (except income from investments such as rent, interest and dividends) and data on the different activities (manufacturing, trading in goods not of own manufacture, construction by own labour

force, revenue from services, etc.) are requested to be reported separately. It should be noted that the statistics for separate activities are not completely consistent since some respondents cannot distinguish, in their records, materials, shipments and inventories relating solely to their own manufacturing activities. For example, inventory of goods purchased for re-sale may not be distinguishable from inventory of own manufactured goods. Complete consistency, therefore, can be obtained only at the "all operations" (total activity) level and for studies or statistical measures requiring accurate coordinated data, the "total" statistics should be used.

The number of establishments represents the number of operating units that are principally engaged in the activities of the manufacturing industries to which they have been classified. These units do not necessarily represent the total number engaged in the production of a commodity mainly produced in a certain industry. Some commodities are produced as secondary products in other manufacturing and non-manufacturing industries. It should be noted that head offices and auxiliary units which are surveyed separately are not included in the establishment count, (see following notes on head offices and auxiliary units).

#### **Head Offices and Auxiliary Units**

All head offices and auxiliary units of companies classified to the manufacturing industries such as sales offices, administrative offices, warehouses, laboratories, etc. are now surveyed as part of the Census of Manufactures.

These head offices and auxiliary units are either included in an establishment report or are surveyed by means of the head office questionnaire. The former is the most common case where a single establishment firm has its executive personnel, sales office, etc. located at the site of the manufacturing plant (establishment). The special head office questionnaire is generally used where a firm, regardless of the number of establishments, has separately located offices or auxiliary units. Such offices or units do not constitute establishments within the Census of Manufactures as they do not normally generate operational revenues, but give rise only to costs of operations (mainly salaries and wages) which are automatically included in the value of shipments or sales. Although not considered as establishments, and hence, not included in the "establishment" count for an industry, the operational costs are reflected in either the "Industry" statistics (3 or 4 digit level) or the "Major group" statistics (2 digit level) according to the following rules:

(a) In the case of single establishment firms, statistics for separately located offices and units are classified to the same industry (3 or 4 digit) as the establishment;

(b) In the case of multi-establishment firms, the statistics for such offices and units are coded to the same industry as the establishments of the

firm, when all establishments are in the same industry (3 or 4 digit). When establishments of such firms are coded (1) to different industries within a major group, (2) to industries in different major groups or (3) to industries in different divisions of the Standard Industrial Classification, then the statistics are included in the major group totals (2 digit level) in which the major part of the company's operations are classified. Although this may result in some distortion of major group statistics in the case of (2) and (3) the statistics at the industry (3 or 4 digit) level in all cases will be left free of these company-wide data.

#### **Employees**

##### **(a) Production and related workers – Manufacturing activity**

In addition to those engaged in production and assembling activities, they include those employed in storing, inspecting, handling, packing, warehousing, etc. They also include employees engaged in maintenance, repair, janitorial and watchman services and line supervisors (working foremen) engaged in similar work to that of the employees they supervise. Production and related workers engaged in manufacturing activity are reported as those receiving pay during the last pay period of each month, an average for the year being obtained by summing the monthly figures and dividing by 12. This procedure is followed even though the establishment did not operate in all months in order to arrive at equivalent annual full-time employment. The numbers are somewhat affected by turnover, in that employment is overstated when an employee changes employment during a pay period. The man-hours of production and related workers in manufacturing activity represent total man-hours paid (total hours at work during the calendar year plus hours not worked but nevertheless paid for, such as paid vacations, sick leave, statutory holidays, etc.). In reporting overtime hours, respondents are requested to report only hours actually at work. It should be noted that the division of hours paid into production and related workers payrolls results in average hourly earnings and does not represent hourly wage rates which are collected and published by the Department of Labour and which are based on selected occupations.

##### **(b) Production and related workers – Non-manufacturing activities**

Such employees include those on manufacturing establishments' payrolls engaged in activities such as construction undertaken for the use of these establishments, some outside piece-workers employed in certain industries, logging employees who are reported as part of a sawmilling establishment and any other production workers who are not engaged in manufacturing-type operations.

##### **(c) Administrative and office employees**

This category includes all executive and supervisory officials such as presidents, vice-presidents, comptrollers, secretaries, treasurers,



etc., together with managers, professional, technical and research employees, superintendents and factory supervisors above the line supervisor or working foreman level, and clerical staffs. Also included are employees in activities such as advertising, credit collections, purchasing, personnel, legal, medical, etc. It should be noted that prior to 1961 this category also included working owners and partners. Also included in this category are employees located at head offices or auxiliary units separately located from the establishment; these are generally included in the figures for the province in which they are located according to the rules outlined under "Head offices and auxiliary units" above.

#### (d) Sales and distribution workers

This category includes office personnel whose salaries are charged to selling expense, travelling salesmen, driver salesmen, truckdrivers and their helpers, etc. It may also include some sales employees who are reported as part of a manufacturing establishment but are not working at the establishment's location. These are generally broken down by province in cases where more than 15 employees are involved in any one province. The figures exclude persons working on a commission basis who are not considered regular employees of the establishment.

#### (e) Total Employees

This total comprises the foregoing categories including employees located at separately located head offices and auxiliary units. The numbers of employees included under categories (b), (c) and (d) are reported in the form of annual averages and represent as closely as possible full time employment; adjustments are made when reported figures indicate the existence of part time or seasonal employment. In all the above categories, figures on employment refer to the calendar year whether or not other establishment statistics can only be reported on a fiscal year other than the calendar year.

#### Working Owners or Partners

These are not now included in the statistics of employees and salaries and wages. There is some duplication in numbers when a person owns more than one establishment and is reported as a working owner on each Census return. Withdrawals of working owners defined as amounts withdrawn by owners or partners for normal living expenses excluding withdrawals for payment of income tax.

#### Salaries and Wages

Salaries and wages refer to gross earnings of employees before deductions for income tax and employees contributions to social services such as sickness, accident and unemployment insurance, pensions, etc. They include all salaries, wages, bonuses, profits shared with employees, the value of room and board where provided, commissions (paid to regular employees only) as well as any

other allowance forming part of the worker's earnings. Payments for over-time are included. Figures on salaries and wages refer to the calendar year.

#### Fuel and Electricity

Figures for fuel refer to amounts actually used (including fuel used in cars, trucks, locomotives, etc.), not to purchases unless the quantities are substantially the same. **Any fuel and electricity produced by establishments for internal consumption are not included in the total cost.** Values represent laid down cost at the establishment including freight, duty, etc. Although fuel and electricity used is considered part of manufacturing activity it should be noted that it also includes relatively small amounts used in non-manufacturing activities since these cannot be reported separately.

#### Materials and Supplies

##### (a) Manufacturing activities

Figures represent quantities and laid down cost values, at the establishment, of materials, supplies and purchased components owned and used during the year in manufacturing activities and related processes. These statistics represent only commodity items or physical goods (cost of services or overhead charges such as advertising, insurance, depreciation, etc. are not included) whether purchased from others or received as transfers (in the form of materials, components or semi-processed goods) from other establishments of the reporting company. Included are maintenance and repair supplies not chargeable to fixed assets accounts and any amounts charged by other establishments for work done on materials owned by the reporting establishment. Cost of repairs or maintenance done by outside contractors and cost of returnable containers are not included.

##### (b) Non-manufacturing activities

###### 1. Purchases for re-sale as such

Figures represent cost of materials or products purchased from others by the reporting establishment (or received as transfers from other establishments of the reporting company) for re-sale as such in the same condition as purchased. Included are any finished products received on consignment from other countries.

###### 2. Other materials and supplies used

Figures represent the cost of materials and supplies, if any, used in new construction and in the production of machinery and equipment (for the use of the reporting establishment) by the establishment's own employees. Included are materials used for any capital repairs and alterations carried out by the establishment's employees. Amounts paid to outside contractors for construction and repair work are not included nor is the cost of purchased machinery and equipment. Also included is the cost of office supplies not chargeable to

fixed assets accounts and the cost of such other items of materials and supplies used as food, beverages and supplies for establishment-operated cafeterias and lunch counters, first aid and medical supplies, laboratory supplies, etc.

## **Shipments**

### **(a) General**

The figures represent revenue from all production, sales, services and related activities of reporting establishments with shipments valued in Canadian dollars at the point at which the establishment relinquishes control. The unsold portion at year end of consignment shipments in Canada is treated as inventory and not as shipments but all shipments to foreign countries for which the form B13 "Customs Canada Export Entry" has been completed, are treated as shipments.

In those industries where work on principal products extends over a relatively long period, (Fabricated Structural Metal Industry, Aircraft and Parts Manufacturers, Railroad Rolling Stock Industry and Shipbuilding and Repair Industry) the value of production rather than the value of shipments is recorded. There are certain establishments in other industries which also operate on a basis of progress payments. For these establishments, shipments are also adjusted to work put in place on the basis of the net change in progress payments over the year.

### **(b) Shipments of goods of own manufacture**

These figures represent shipments of goods made from own materials either in the reporting establishments or by other manufacturers on the basis of a charge to the reporting establishments for work done. Included are revenue from repair and custom work, amounts received in payment for work done on materials owned by other establishments and the cost (book value) of any goods shipped on a rental basis.

All products and by-products of own manufacture shipped from the establishment are covered, including transfer shipments to sales outlets, distributing warehouses or to other manufacturing plants of the reporting firm, when such units are treated as separate establishments. The value of shipments are net of returned goods, discounts, returns, allowances, sales tax and excise taxes and duties, returnable containers and charges for outward transportation by common or contract carriers. Transportation or delivery expense incurred by the reporting establishment's own carriers are included.

Shipments of goods of own manufacture of establishments which are coded to some other division of the Standard Industrial Classification (on the basis of principal activity) but which are engaged in manufacturing as a subsidiary activity are collected by means of the Commodity questionnaire referred to earlier. Such shipments together

with shipments of goods of own manufacture of establishments forming the universe of manufacturing industries are compiled and recorded in the various industry publications.

### **(c) Shipments of goods not of own manufacture**

These figures represent the net selling value at establishment (net of discounts, returns, allowances, sales taxes and excise duties and taxes and transportation charges by common or contract carriers) of all products or materials (including products transferred from other establishments of the reporting firm) sold as such in the same condition as purchased or received as transfers. For those industries which ship such goods on a rental basis, the value of shipments represents the book value of these goods. All sales of consignment goods from other countries are included.

### **(d) Other revenue**

Figures represent the book value of fixed assets, if any, (new construction and machinery and equipment including major repairs, alterations, additions, modifications, installation and assembly work) produced during the year for the use of reporting establishments by the establishment's own employees and for which depreciation accounts are maintained. Included also are any revenues from the sale of electricity and from any operations performed by the establishment's own employees, such as revenue from goods produced or purchased for rental (the book value of such goods are included as part of shipments of goods of own manufacture or shipments of goods not of own manufacture), servicing revenues, commissions on sales (when not included in value of sales), revenue for company-operated cafeterias and lunch counters and revenue from outside installation or construction work not related to the establishment's own products, sale of used materials (excluding sale of used fixed assets) research and development work, etc. As mentioned previously the figures do not include non-operating revenue such as rent, dividends, interest, etc.

## **Inventories**

### **(a) Manufacturing activities**

Values represent the book values of manufacturing inventory owned in Canada. Inventories held for which progress payments have been received are not included. Where progress payment accounts are maintained, the change in these accounts is treated as a net adjustment to shipments. Figures consist of inventory owned at the plant and at warehouses or selling outlets which are treated as extensions of establishments for the purpose of reporting shipments. Inventory owned in transit in Canada or on consignment in Canada is included. Goods shipped abroad and held in inventory are included in shipments. Opening inventories may differ from the closing inventories of the previous year because of changes in classification, the



receipt of revised data, the inclusion of new establishments and the removal of establishments which did not operate during the survey year.

**(b) Non-manufacturing activities**

Figures represent the book value of inventory of goods purchased for re-sale as such without further processing, owned by the reporting establishments and held at plants and at any warehouses or selling outlets which are treated as extensions of establishments. Other characteristics are the same as in (a) above.

**Value Added**

**(a) By manufacturing activities**

Figures are compiled by deducting the cost of materials and fuel and electricity consumed from the value of production (value of shipments adjusted for changes in the value of inventories of finished goods and goods in process).

**(b) By non-manufacturing activities**

The figures are compiled by deducting the cost of goods purchased for re-sale (adjusted for changes in the value of inventories of goods

purchased for re-sale) and the cost of other materials and supplies used from the value of shipments of goods not of own manufacture, plus other revenue.

**(c) By Total activities**

The figures consist of value added by manufacturing activities plus value added by non-manufacturing activities. This total value added figure may, in some cases, be less than value added by manufacturing activities as a result of expenditures associated with non-manufacturing exceeding revenues from such activities or because of a decrease in inventory of goods not of own manufacture exceeding the mark-up on the sale of such goods. "Value added" is sometimes referred to as net production. However, to arrive at the National Accounts concept of net production, or Gross Domestic Product at "Factor cost" it would be necessary to subtract also the cost of advertising, insurance and other business expenses which are not collected as part of the annual Census of Manufactures. "Value added" figures for the primary industries, manufacturing and construction are published in DBS publication Catalogue No. 61-202, "Survey of Production".





STATISTICS CANADA LIBRARY  
BIBLIOTHÈQUE STATISTIQUE CANADA



1010646250

BATTERY MANUFACTURERS 1963