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THE COMPRESSED GASES INDUSTRY 1950

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NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada - mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

For the purpose of annual compilation and publication, the manufacturing industries have been classified into major groups, prefaced by two reports of a general nature, as follows:

I Summary Report on Manufacturing Industries

II Manufacturing Industries by Geographical Distribution

III Foods and Beverages

IV Tobacco and Tobacco Products

V Rubber Products

VI Leather Products

VII Miscellaneous Manufactures

VIII Textiles
IX Wood and Paper Products
X Printing Trades

XI Operations in the Woods

XII Iron and Steel Products

XIII Transportation Equipment

XIV Non-ferrous Metal Products
XV Electrical Apparatus and Supplies

XVI Non-metallic Mineral Products

XVII Products of Petroleum and Coal

XVIII Chemicals and Allied Products

The present report belongs in Group XVIII, Chemicals and Allied Products. It is punched to permit of filing in a ring binder along with others of the group. The reports in this group are:

A General Review, 25¢.

B The Acids, Alkalies and Salts Industry, 25¢. C The Fertilizer Manufacturing Industry, 25¢.

D The Fertilizer Trade in Canada, 30¢.

E The Medicinal and Pharmaceutical Preparations Industry, 25¢.

F The Paints, Varnishes and Lacquers Industry, 25¢.

G The Primary Plastics Industry, 25¢.

H The Soaps, Washing Compounds and Cleaning Preparations Industry, 25¢. I The Toilet Preparations Industry, 25¢.

J The Vegetable Oils Industry, 25¢.

K The Inks Industry, 25¢.

L The Adhesives Industry, 25¢.

M The Polishes and Dressings Industry, 25¢. N The Compressed Gases Industry, 25¢.

O The Coal Tar Distillation Industry, 25¢.

P The Miscellaneous Chemical Products Industry, 25¢.

THE COMPRESSED GASES INDUSTRY

1950

Manufacturing plants in Canada engaged chiefly in making industrial gases reported production in 1950 at \$12,737,319 compared with \$12,091,176 in 1949, an increase of 5.3 per cent.

There were 50 factories in operation in this industry during 1950, of which 18 were located in Ontario; 12 in Quebec; 5 in Alberta; 5 in British Columbia; 3 in Nova Scotia; 3 in Manitoba; 2 in Saskatchewan, and 1 each in New Brunswick and Newfoundland. The number of employees in the industry in 1950 was 1,240, including 561 supervisory and office personnel and 679 production workers. Salaries for the year amounted to \$1,444,267 and wages totalled \$1,795,331.

The chief products were oxygen, acetylene and carbon dioxide. The output of oxygen increased 5 per cent to 690.4 million cubic feet and acetylene increased 3 per cent to 124.4 million cubic feet. Carbon dioxide, aqua ammonia, anhydrous ammonia, nitrogen, hydrogen, nitrous oxide and propane were other products of this industry, The output figures for the latter items are not published separately since there were only one or two producers in each case.

No mention is made in this report of liquid chlorine, liquid sulphur dioxide, synthetic ammonia, nor of hydrogen and nitrogen for the manufacture of synthetic ammonia. These items were produced in works that also made other kinds of chemicals and the statistics concerning the output of same have been included in the heavy chemical industry which is reviewed in a separate bulletin. A similar disposition has been accorded liquefied petroleum gases produced in the petroleum refining industry.

TABLE 1. Principal Statistics for the Compressed Gases Industry, 1946-1950

Year	Number	Number	Salaries	Cost of fuel	Cost of	Gross selling
	of	of	and wages	and electricity	materials	value of pro-
	plants	employees	for year	at works	at works 1	ducts at works
1946	42	1,064	\$ 1.961.493	\$ 314,524	\$ 1, 258, 423	\$ 8,308,028
1947	44	1, 089	2, 262, 527	365, 903	1, 475, 523	9, 607, 229
	45	1, 156	2, 613, 283	404, 455	2, 180, 518	11, 314, 387
	48	1, 223	3, 230, 904	431, 855	1, 979, 160	12, 091, 176
	50	1, 240	3, 239, 598	493, 054	1, 873, 977	12, 737, 319
% change, 1950 from 1949	-	+1.4	-	+14.2	- 5. 3	+ 5- 3

^{1.} See footnote to Table 4.

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

TABLE 2. Principal Statistics for the Compressed Gases Industry, by Provinces, 1949 and 1950

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of pro- ducts at works
			\$	\$	\$	\$
1949						
ewfoundland	1)				
ova Scotia lew Bruns wick juebec	3 1 11	381	970, 051	130, 752	603,724	3, 963, 37
ntario	18	500	1, 388, 649	207, 820	776, 876	4, 918, 16
anitoba askatchewan	3 2	120	290, 679	26, 700	235, 015	1, 209, 90
lberta	5	120	332, 665	30,882	177, 712	980. 96
ritish Columbia	4	102	248, 860	35,701	185, 833	1,018,83
Canada	48	1.223	3, 230, 904	431, 855	1, 979, 160	12, 091, 1
1950						
ewfoundland ova Scotia ew Brunswick	3	374	998, 314	135, 376	546, 928	3, 980. 21
uebecntario	12 18	504	1, 350, 963	255, 419	800, 363	5, 313, 57
nitoba		3 132	307, 148	28, 969	208, 027	1, 144, 45
skatchewan berta	3 2 5 5	122	320, 900	34,778	165, 162	1, 206, 9
itish Columbia	5	108	262, 273	38. 494	153, 497	1, 092, 0
Canada	50	1.240	3, 239, 598	493,054	1, 873, 977	12. 737.3

^{1.} See footnote to Table 4.

TABLE 3. Products of the Compressed Gases Industry, 1949 and 1950

	Unit	1949		1950	
Product	of measure	Quantity	Selling value at works	Quantity	Selling value at works
				4 - 1 - 5	\$
toetylene ¹ Lydrogen Daygen ¹ Other products ²	cu. ft. cu. ft. cu. ft.	120, 831, 500 87, 790, 070 657, 134, 873	3, 420, 827 318, 132 5, 567, 476 2, 784, 741	124, 375, 066 106, 103, 532 690, 362, 200	3, 586, 70; 361, 22; 5, 400, 670 3, 388, 72;
Total	_	_	12, 091, 176	-	12, 737, 31

In cylinders or delivered by pipe line.
 Includes nitrous oxide, carbon dioxide, propane, nitrogen, and ammonia made from gas liquor.

TABLE 4. Materials Used in the Compressed Gases Industry, 1949 and 1950

Material	Unit of measure	1949	9	1950	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Acetone Calcium carbide Coke Oil (for making carbon dioxide and hydrogen) Potasslum hydroxide Sodium hydroxide Other materials ¹ Cylinders purchased during the year	pound ton ton Imp. gal. lb. lb. number	417, 446 9, 920 2, 914 935, 391 85, 380 350, 458 7, 658	65, 629 957, 736 61, 076 82, 810 8, 951 14, 807 559, 169 228, 982	396, 561 10, 045 1, 097 1, 247, 814 77, 555 370, 018	59, 883 1, 009, 891 24, 056 117, 643 9, 437 16, 075 646, 429
Total			1, 979, 160	-	1, 873, 977
Cylinders purchased during the year	number	See ab	ove	11, 246	295, 566

Includes ammonia liquor, ammonium nitrate, unpurified brewery gas, lime, soda asb, condensing water, etc.
 Not included in materials classification for 1950.

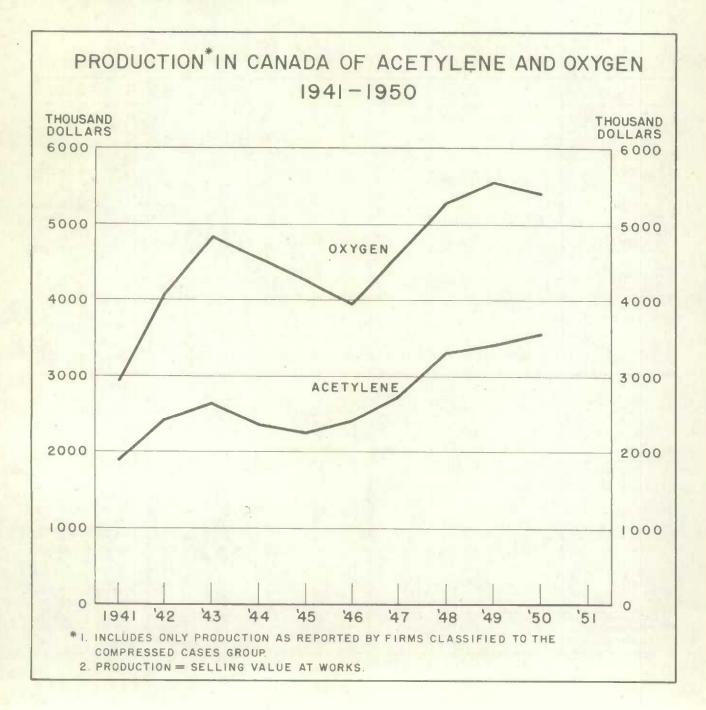


TABLE 5. Production of Acetylene and Oxygen, 1941-1950

	Acetylene			Oxygen		
Year	Quantity	Selling value at works	Quantity	Selling value at works		
	cu. ft.	\$	cu. ft.	\$		
941	81, 791, 386	1, 898, 679	356, 633, 855	2, 945, 545		
942	105, 751, 660	2, 429, 493	541, 184, 707	4,098,03		
943	114, 111, 166	2, 657, 631	636, 281, 176	4, 811, 83		
944	101, 981, 116	2, 377, 919	614, 110, 740	4, 568, 37		
945	95, 889, 965	2, 273, 945	565, 601, 348	4, 297, 79		
946	100. 276, 367	2, 403, 386	476, 822, 719	3, 973, 86		
947	111, 370, 838	2, 748, 114	577. 806. 032	4,603.91		
948	123, 185, 685	3, 301, 822	565, 869, 719	5, 297, 53		
949	120, 831, 500	3, 420, 827	657, 134, 873	5, 567, 47		
950	124, 375, 068	3, 586, 705	690, 362, 200	5, 400, 67		

^{1.} Includes only production as reported by firms classified to the Compressed Gases group.

TABLE 6. Consumption of Carbon Dioxide in the Manufacture of Carbonated Beverages (Soft Drinks) 1945-1949

Year	Quantity	Cost at works	
	Pounds	\$	
1945: In cylinders Solid	6, 133, 176 352, 258	481, 088 23, 591	
1946: In cylinders Solid	6, 426, 615 394, 430	489, 080 27, 081	
In cylioders Solid	8,066,953 468,821	606, 033 33, 184	
In cylinders Solid	8, 819, 638 569, 959	694, 329 38, 356	
1949: In cylinders Solid	10, 774, 894 1, 239, 520	886, 461 82, 149	

TABLE 7. Employees and their Earnings in the Compressed Gases Industry, 1949 and 1950

		Numb	er of emplo	. Earnings				
Province	Supervisory and office		Production workers		Total	Supervisory and	Production	Total
	Male	Female	Male	Female		office	workers	
						\$	\$	\$
1949								14
Quebec Ontario Alberta British Columbia Other provinces	61 135 34 26 60	45 115 19 21 44	173 249 67 53 118	- 1 - 2	279 500 120 102 222	260, 251 716, 794 146, 610 111, 656 256, 020	468, 979 671, 855 186, 055 137, 204 275, 480	729, 230 1, 388, 649 332, 665 248, 860 531, 500
Canada	316	244	660	3	1, 223	1, 491, 331	1, 739, 573	3, 230, 904
1950								
Quebec Ontario Alberta British Columbia Other provinces	63 131 30 29 65	47 114 19 21 42	165 259 73 57 124	- 1	275 504 122 108 231	281, 764 675, 236 134, 352 100, 242 252, 673	477, 810 675, 727 166, 548 162, 031 293, 215	759, 574 1, 350, 963 320, 900 262, 273 545, 888
Canada	318	243	678	1	1, 240	1,444,267	1, 795, 331	3, 239, 59

List of Firms in the Compressed Gases Industry, 1950

Name of Firm	Location of Plant
Liquid Carbonic Canadian Corporation Limited, H.O. 2120 Cabot St., Montreal, Quebec.	Dartmouth, Nova Scotia; Montreal, Quebec; Quebec, Quebec; Toronto Ontario; St. Boniface, Manitoba; Edmonton, Alberta; Vancouver, Britis Columbia.
L'Air Liquide Society & Canadian Liquid Air Co. Limited H.O. 1111 Beaver Hall Hill, Montreal, Quebec.	St. John's, Newfoundland; Halifax, Nova Scotia; Sydney, Nova Scotia Moncton, New Brunswick; Montreal, Quebec; Sorel, Quebec; Toronto Ontario; London, Ontario; Hamilton, Ontario; Winnipeg, Manitoba; Regins Saskatchewan; Calgary, Alberta; Edmonton, Alberta; Vancouver, Britis Columbia.
Dominion Oxygen Company, Limited H.O. Canada Life Building, 340 University Ave., Toronto, Ontario.	Arvida, Quebec; Quebec, Quebec; Montreal, Quebec (2); Shawinigan Falls Quebec; Sault Ste. Marie, Ontario; Toronto, Ontario; Welland, Ontario; Merritton, Ontario; St. Boniface, Manitoba; Saskatoon, Saskatchewan Vancouver, British Columbia.
Imperial Oxygen Limited H.O. 8408 Decarie Blvd., Montreal, Quebec.	Montreal, Quebec (2); Toronto, Ontario; Windsor, Ontario.
Ohio Chemical Canada Limited, 2535 St. James St. W., Montreal, Quebec.	Montreal, Quebec; Toronto, Ontario.
Alberta Oxygen & Acetylene Co. Ltd., 142nd Street at 108th Avenue, Edmonton, Alberta.	Edmonton, Alberta.
Canadian Industries, Limited, H.O. 1135 Beaver Hall Hill, Montreal, Quebec.	Toronto, Ontario.
Canada Packers Limited	2200 St. Clair Ave. W., Toronto, Ontario.
Lever Brothers, Limited	299 Eastern Ave., Toronto, Ontario.
Peoples Gas Supply Co., Ltd.	2-10 Mill St., Ottawa, Ontario.
Procter & Gamble Co. of Canada, Ltd.	Burlington St. E., Hamilton, Ontario.
Swift Canadian Co., Limited	1960 St. Clair Ave., Toronto, Ontario.
A.C. Wickman (Canada) Limited	Etobicoke, Ontario.
Western Oxygen Company Limited	Armstrong, British Columbia; Cranbrook, British Columbia.
Western Propane Limited	Turner Valley, Alberta.

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