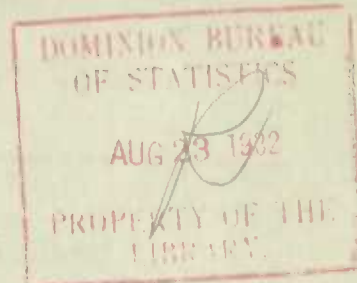


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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

THE COMPRESSED GASES INDUSTRY

IN

CANADA

1931

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Of considerable interest is the recent announcement that Canadian Industries are erecting a plant for the commercial production of sulphur dioxide gas.

Table 1 - PRINCIPAL STATISTICS OF THE COMPRESSED GASES INDUSTRY IN CANADA, 1927-1931.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1927 ...	25	4,177,794	404	604,417	550,795	2,625,698	2,074,903
1928 ...	25	4,226,037	426	652,893	479,587	3,145,884	2,666,297
1929 ...	28	4,995,560	542	770,424	785,377	3,967,416	3,182,039
1930 ...	30	5,020,875	472	737,240	504,975	3,557,486	3,052,511
1931							
Quebec	7	900,797	90	139,014	117,131	783,728	666,597
Ontario	13	2,766,332	201	326,645	162,880	1,104,284	941,404
Manitoba	3	254,506	40	57,978	43,256	281,787	238,531
CANADA(x)	30	4,597,170	420	654,364	429,048	2,818,306	2,389,258

(x) Includes also data for 2 plants in Nova Scotia, 1 in Saskatchewan, 2 in Alberta and 2 in British Columbia.

Table 2 - CAPITAL EMPLOYED, BY PROVINCES, 1930 and 1931.

Provinces	Value of lands, buildings, machinery and equipment	Inventory value of materials on hand, stocks in process, fuel and other supplies	Inventory value of finished products on hand	Operating capital (cash, bills and accounts receivable, etc.)	TOTAL
	\$	\$	\$	\$	\$
1930					
Quebec....	774,050		113,388	83,628	971,066
Ontario ..	1,145,298		760,369	1,204,194	3,109,861
Manitoba .	219,062		15,776	40,459	275,297
CANADA(x).	2,612,938		953,628	1,454,309	5,020,875
1931					
Quebec ...	657,631	6,926	83,380	152,860	900,797
Ontario ..	999,613	174,979	53,139	1,548,601	2,776,332
Manitoba .	183,800	9,770	9,888	51,048	254,506
CANADA(x)	2,298,435	228,426	181,954	1,888,355	4,597,170

(x) See footnote to Table 1.

Table 3 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1930 and 1931.

Provinces	On salaries		On wages		Total employees	Salaries	Wages	Total Salaries and Wages
	Male	Female	Male	Female		\$	\$	\$
1930								
Quebec ...	34	10	63	3	110	92,060	92,291	184,351
Ontario ..	74	43	88	8	213	208,126	131,759	339,885
Manitoba .	19	4	23	1	47	40,619	31,192	71,811
CANADA(x)	166	76	217	13	472	427,146	310,094	737,240
1931								
Quebec ...	29	10	51		90	75,136	63,878	139,014
Ontario ..	78	35	83	5	201	210,817	115,828	326,645
Manitoba .	15	4	21		40	31,700	26,278	57,978
CANADA(x)	153	67	195	5	420	397,788	256,576	654,364

(x) See Footnote to Table 1.

Table 4 - WAGE EARNERS, BY MONTHS, 1930 and 1931.

Months	1930			1931		
	Male	Female	Total	Male	Female	Total
January	214	12	226	210	4	214
February	212	12	224	208	4	212
March	210	11	221	210	5	215
April	229	12	241	207	5	212
May	242	15	257	204	5	209
June	221	15	236	216	4	220
July	217	14	231	202	4	206
August	219	12	231	197	4	201
September	210	14	224	198	4	202
October	209	12	221	163	4	167
November	204	11	215	163	4	167
December	204	11	215	162	4	166
AVERAGE	217	13	230	195	5	200

Table 5 - NUMBER OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT, CLASSED ACCORDING TO REGULAR HOURS WORKED PER WEEK (Overtime not included)

Regular hours per week	Number of wage earners	Regular hours per week	Number of wage earners
40 hours or less	16	51 - 53 hours	6
41-43 hours .....	..	54 hours .....	..
44 hours	42	55 hours	2
45 - 47 hours .....	..	56 - 59 hours	7
48 hours	117	60 hours	17
49 - 50 hours	1	Over 60 hours	18

Table 6 - FUEL AND ELECTRICITY USED, 1930 and 1931.

Kinds	Unit of measure	1930		1931	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Anthracite coal	short ton	508	4,379	607	5,530
Bituminous coal - Canadian ..	short ton	339	2,413	204	1,635
Imported ..	short ton	389	6,498	2,497	12,803
Coke	short ton	1,562	5,924	...	...
Gasoline	imp. gal.	388	110	295	88
Fuel oil	imp. gal.	9,840	433	9,345	412
Gas, natural	M cu.ft.	1,345	464	1,114	372
Electricity purchased	K.W.H.	15,580,960	133,575	13,278,982	113,593
TOTAL .....		...	153,796	...	141,633

Table 7 - POWER EMPLOYED, 1930 and 1931.

Kinds	1930		1931	
	Number of units	Total H.P.	Number of units	Total H.P.
Steam engines and steam turbines	1	40	1	40
Total Primary Power	1	40	1	40
Electric motors run by purchased power	133	5,739	135	6,046
Total Power Employed	134	5,779	136	6,086
Total Electric Motors	133	5,739	135	6,046
BOILERS	6	600	6	615

Table 8 MATERIALS USED, 1930 and 1931.

Materials	Unit of measure	1 9 3 0		1 9 3 1	
		Quantity	Cost at	Quantity	Cost at
			works \$		works \$
Acetone	lb.	162,551	30,954	149,788	24,910
Calcium carbide	lb.	9,906,669	337,543	7,956,944	282,822
Coke	ton	2,029	28,564	1,705	19,941
Other materials .....	...	...	87,517	...	86,023
Cylinders purchased during the year	no.	893	20,397	849	15,352
TOTAL .....	...	...	504,975	...	429,048

Table 9 PRODUCTS MADE, 1930 and 1931

Products		1 9 3 0		1 9 3 1	
		Quantity	Selling value	Quantity	Selling value
			at works \$		at works \$
Acetylene	cu. ft.	44,181,816	1,094,999	37,048,521	890,330
Carbon dioxide	lb.	6,632,544	558,716	5,437,464	407,845
Hydrogen	cu. ft.	41,492,850	55,194	35,592,311	57,035
Oxygen	cu. ft.	152,419,201	1,577,922	120,326,797	1,169,526
Other products(x) .....	...	...	270,655	...	293,570
TOTAL .....	...	...	3,557,486	...	2,818,306

(x) Includes aqua and anhydrous ammonia, nitrogen and solid carbon dioxide.

Table 10 - PRODUCTION OF ACETYLENE, CARBON DIOXIDE, AND OXYGEN IN CANADA, 1918 to 1931.

Years	Acetylene	Carbon dioxide	Oxygen
	Cubic feet	Pounds	Cubic feet
1918	5,484,755	2,742,632	33,880,000
1919	11,684,646	3,571,681	34,768,587
1920	16,121,701	5,582,149	54,613,400
1921	15,663,702	3,567,431	53,612,271
1922	17,631,590	3,263,908	52,448,907
1923	21,729,109	3,355,628	72,637,943
1924	19,229,042	3,428,953	68,331,575
1925	24,384,431	3,650,547	68,685,153
1926	27,814,736	3,896,524	86,989,015
1927	31,195,053	4,706,519	112,757,727
1928	37,342,101	5,533,275	133,688,619
1929	46,009,766	6,818,800	166,066,394
1930	44,181,816	6,632,544	152,419,201
1931	37,048,521	5,437,464	120,326,797

Table 11 - PRODUCTION OF ACETYLENE, CARBON DIOXIDE, AND OXYGEN IN CANADA, BY PROVINCES, 1928-1931.

	Ontario	Quebec	Other Provinces	CANADA
ACETYLENE				
1928	14,032,110	11,203,260	12,106,731	37,342,101
1929	18,463,129	12,854,099	14,632,538	46,009,766
1930	18,569,197	11,463,532	14,143,087	44,181,816
1931	14,680,022	9,483,373	12,885,126	37,048,521
CARBON DIOXIDE				
1928	1,277,440	2,677,526	1,578,300	5,533,275
1929	1,453,180	3,687,948	1,677,672	6,818,800
1930	1,385,398	3,588,703	1,658,443	6,632,544
1931	1,538,928	2,668,100	1,230,436	5,437,464

Table 11 - PRODUCTION OF ACETYLENE, CARBON DIOXIDE, AND OXYGEN IN CANADA, BY PROVINCES, 1928-1931. concluded.

		Ontario	Quebec	Other provinces	CANADA
<u>OXYGEN</u>					
1928	..... cu.ft.	54,430,578	41,371,320	42,286,721	138,688,619
1929	..... cu.ft.	66,116,620	50,714,300	49,235,474	166,066,394
1930	..... cu.ft.	59,045,143	45,737,255	47,636,803	152,419,201
1931	..... cu.ft.	44,420,908	38,162,619	37,743,270	120,326,797

DIRECTORY(x) OF FIRMS INCLUDED IN THE COMPRESSED GASES INDUSTRY IN CANADA, 1931.

Name	Location of plants	Products made
L'Air Liquide Society	H.O. - 1111 Beaver Hall Hill, Montreal, P.Q. Plants at Halifax, Montreal, Toronto, London, Winnipeg, Regina, Calgary, and Vancouver.	Acetylene and oxygen.
Liquid Carbonic Canadian Corp. Ltd.	H.O. - 640 Dominion Square Bldg. Montreal, P.Q. Plants at Dartmouth, Montreal(2), Toronto, St.Boniface, Edmonton and Vancouver.	Carbon dioxide.
Dominion Oxygen Company, Ltd.	H.O. - Canada Life Bldg., 40 University Ave., Toronto, Ont. Plants at Montreal and Toronto.	Oxygen and nitrogen.
Dominion Carbonic Co. Ltd.	Cor. Mill and Trinity St., Toronto, Ont.	Carbon dioxide.
Canadian Dry Ice Company, Ltd.	H.O. - 734 St. Maurice St., Montreal, P.Q. Plants at Montreal and Toronto.	Solid carbon dioxide.
Prest-O-Lite Co. of Canada, Ltd.	H.O. - Canada Life Bldg., Toronto, Ont. Plants at Shawinigan Falls, Meritton and St. Boniface.	Acetylene.
Canadian Gas & Equipment Ltd.	H.O. - 2240 St. Clair Ave. W., Toronto, Ont. Plants at Montreal and Toronto(2).	Acetylene, hydrogen, oxygen, and nitrogen.
Canadian Industries Limited	H.O. - P.O.Box 1260, Montreal, P.Q. Plant at Toronto, Ont.	Aqua ammonia and anhydrous ammonia.
Lever Bros. Limited	Eastern Ave., Toronto, Ont.	Hydrogen and oxygen.
The People's Gas Supply Co. Ltd.	2 Mill St., Ottawa, Ont.	Acetylene.
The Proctor & Gamble Co. of Canada, Limited.	Burlington St., Hamilton, Ont.	Hydrogen and oxygen.

(x) The above plants are included under the Compressed Gases Industry. In addition to these, the Canadian Industries Ltd. at Sandwich produced and sold synthetic ammonia and liquid chlorine but when classified according to the main products this plant comes under the Acids, Alkalies and Salts Industry which is reviewed in a separate bulletin. Synthetic ammonia is also made at Trail, B.C., by the Consolidated Mining and Smelting Company but is used by that company in the manufacture of ammonia fertilizers; acetylene is made by the Shawinigan Chemicals and used in making acetic acid, etc.; and nitrogen is produced as an intermediate in the manufacture of cyanamide by the American Cyanamid Company at Niagara Falls.

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