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. THE ACIDS, ALKALIES, SALTS AND COMPRESSED GASES INDUSTRY IN CANADA, 1927.

A further increase in the cutput value of acids, alkalies, salts and compressed gases was recorded in 1927 when production for the industry reached a total value of \$30,740,846 or half a million dollars above the corresponding figure for 1926.

(a) Acids, Alkalies and Salts.— Output from the 16 plants in Canada producing acids, alkalies and salts as principal products in 1927 was valued at \$28,115,148 and as materials used cost \$15,110,991, the value added by manufacturing amounted to \$13,004,157. Capital employed stood at \$31,134,457 and employment was given to 1,881 people to whom \$2,858,644 was paid in salaries and wages during the year.

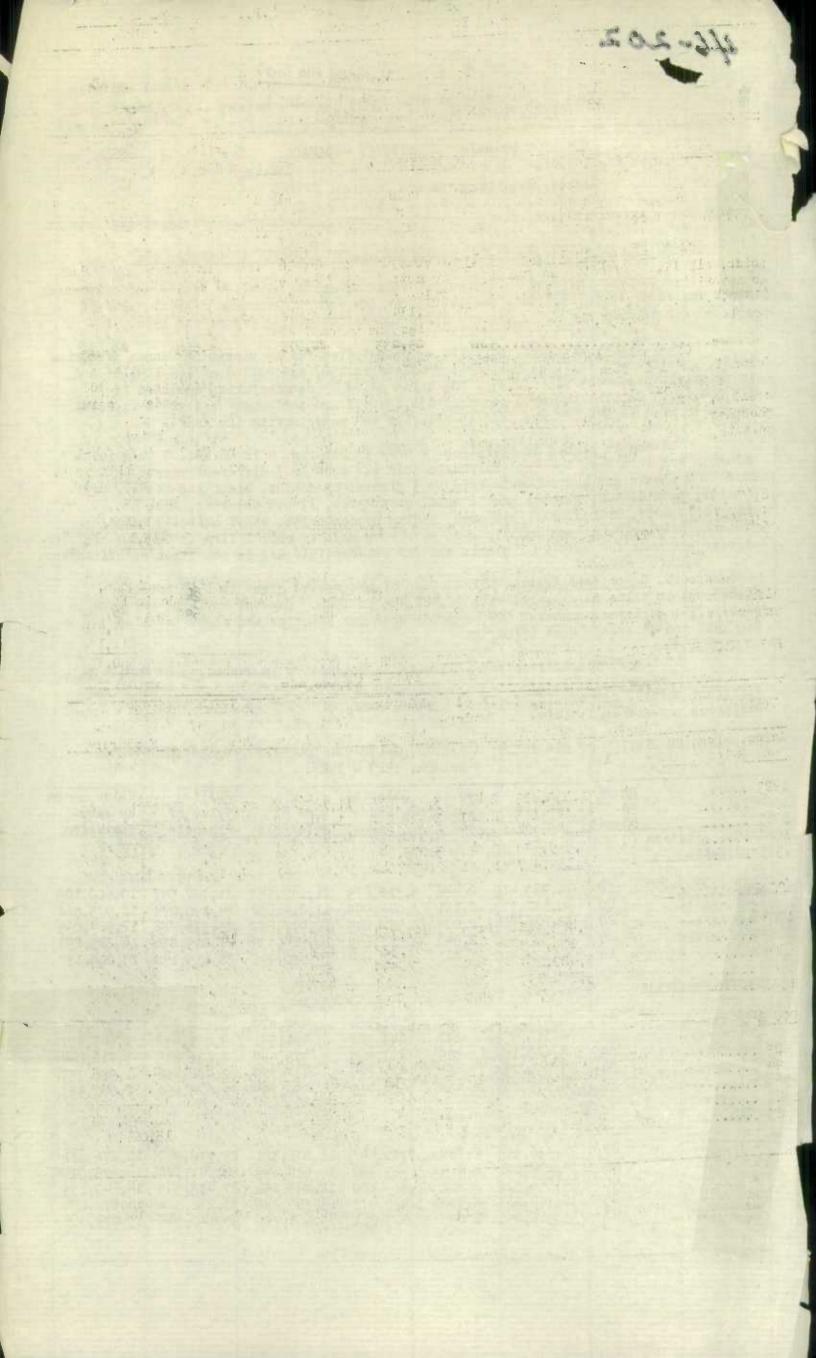
Of the 16 plants in operation, 8 were in Ontario, 4 in Quebec, 3 in British Columbia and 1 in Nova Scotia. Sulphuric acid was made in 7 different plants, nitric acid in 2 plants and hydrochloric acid in 3 plants; cyanamide, bleaching powder, sodium cyanide, paraldehyde, glacial acetic acid, phosphorus, liquid chlorine, soda ash, phosphoric acid, hydrofluosilicic acid, sodium hypochlorite, ethyl acetate, butyl acetate, butyl alcohol and caustic soda were each made hy only 1 firm in Canada. Calcium carbide was made for sale in 2 plants and for intermediate use in one other establishment.

(b) Compressed Gases. Production of compressed gases in 1927 totalled \$2,625,698 in value as compared with \$2,422,486 in 1926. Capital employed amounted to \$4,177,794; employees numbered 404; expenditures for salaries and wages totalled \$605,417 and materials cost \$550,795.

Of the 25 plants reporting, 11 were in Ontario, 6 in Quebec, 3 in Manitoba, 2 in Nova Scotia, 2 in British Columbia and 1 in Alberta. Acetylene was made in 11 different plants, carbon dioxide in 8, oxygen in 12, hydrogen in 3 and aqua and anhydrous ammoria in 1 plant.

PRINCIPAL STATISTICS OF THE ACIDS, ALKALIES, SALTS AND COMPRESSED GASES INDUSTRY IN CANADA. 1923 - 1927.

CANADA, 1923 - 1927.							N. W.
Year Acids, Alkal; and Salts	No.of plants	Capital employed	No.of Employ sea	- and	Cost of Materials	Selling Value of Products \$	Value added by manu- facturing \$
1923 1924 1925 1926	24 20 20 19 16	31,963,419 30,182,113 32,236,424 34,589,930 31,134,457	2,488 2,121 2,054 2,040 1,881	3,318,679 3,025,998 2,992,695 3,075,649 2,858,644	11,147,442 11,214,692 12,472,687 12,924,539 15,110,991	21,747,547 24,190,274 25,396,782 27,809,836 28,115,148	10,600,105 12,975,562 12,924,095 14,885,297 13,004,157
Compressed Ga	ases						
1923 1924 1925 1926	23 21 20 24 25	4,472,896 4,115,958 3,420,104 3,799,733 4,177,794	300 292 325 360 404	461,764 443,322 481,595 521,824 604,417	488,879 401,951 370,569 43,729 550,795	2,165,445 2,051,448 2,086,619 2,422,486 2,625,698	1,676,566 1,649,497 1,716,044 1,986,757 2,070,903
TOTAL							
1923 1924 1925 1926	47 41 40 43 41	36,436,315 34,298,071 35,656,528 38,389,663 35,312,251	2,788 2,409 2,409 2,400 2,235	5.780,443 3.469,320 3.474,290 3,597,473 3,463,061	11,636,321 11,616,643 12,843,256 13,360,268 15,661,786	23,912,992 26,241,722 27,483,395 30,232,322 30,740,846	12,276,671 14,625,079 14,640,139 16,872,054 15,079,060



MATERIA SED IN THE ACIDS, ALKALIES, SALTS AND COMPRESSED GASES INDUSTRY IN CAMADA,

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1926 a	nd 1927.	the state of the s		
Unit	1 9 2	6	1 9	2 7
Material of		Cost at		Cost at
Measure	Quantity	Works	Quantity	Morks
ACIDS, ALKALIES AND SALTS.		\$		\$
id, sulphuric, 66°Be	2,932,532	26,567	7,161,589	109,373
mmonia, anhydrous, and ammonia	1			(-1)
liquorlb;NH3	174,633	22,132	161,683	15,684
Galcium carbonate (limestone)ton	212,009	495,254	273,783	472,212
Calcium chloridelb.	153,400	2,454	206,050	3,267
Calcium hydroxide (alaked lime)lb.	4,748,040	24,684	1,437,107	7,540
Coke (not for fuel)ton	93,278	794,031	84,624	751,066
Coal, anthracite (not for fuel)ton	7,649	47,179	3,688	28,386
Carbon electrodeslb.	5,869,870	322,277	3.503.997	218,252
Iron sulphide (parites)ton	15,986	82,708	19,379	100,374
Silicaton	29,233	88,975	4,504	16,015
Sodium caroonate (soda ash)lb.	1,866,289	27,209	598,346	9,926
Sodium chloride (including brine)ton	42,189	122,067	83,858	117,510
Sodium hydroxidelb.	258,347	9,143	318,723	11,020
Sodium nitrate (Chile saltpetre).ton	1,200	73,274	1,115	65,597
Sodium salts, all.other	-	10,960		6,613
Sulphur (brimstone)ton	22,893	419,056	19,847	388,008
Containers, boxes, etc	-	416,996	••	418,205
All, Other materials.1	-	658,391	**	1,351,461
TOTAL	-	3,643,357	**	4,090,509
Intermediate products used as		0 003 300		11,020,482
materials 2		9,281,182		15,110,991
TOTAL MATERIALS USED	•	12,924,539	-	19,110,771
COMPRESSED GASES				- 11
Acetonelb.	91,281	18,520	125,532	25,244
Calcium caroidelb.	6,361,871	207,125	7,385,241	234,192
Coketon	4,609	32,817	1,696	25,769
All other materials		98,987	-	54,414
Cylinders purchased during year No .	3,011	78,280	-	211,176
TOTAL	**	4351729	-	550,795
TOTAL	-	13,360,268		15,661,786
		217		

¹ Includes acetylene, calcium acetate, calcium fluoride, phosphate rock, sodium bichromate, pathway oil and other materials.

PRODUCTS OF THE ACIDS, ALKALIES, SALTS AND COMPRESSED GASES INDUSTRY IN CANADA, 1926

and 1921.								
		1 9	2 6	1 9				
Product	Unit of			lue				
	Measure	Quantity	at works	Quantity	at works			
ACIDS, ALKALIES AND SALTS			\$		\$			
Products made for sale:-								
Sulphuric acid, 66°Be	1b.	207,585,802	1,265,866	193.734,509	1,153,507			
Hydrochloric acid, 20°Be 1	lb.	7,409,881	109,992	6,938,978	68,356			
All other products		-	17,150,389	-	15.864.925			
TOTAL			18,526,247	-	17,086,788			
Intermediate products made	for own us	e -	9,283,589	44	11,028,360			
TOTAL		-	27,809,836	-	28,115,148			
COMPRESSED GASES	4							
Acetylene	Cu.ft.	27,814,736	700,977	31,195,053	798,480			
Carbon dioxide		3,896,524	395.974	4,706,519	445,989			
Hydrogen		23,951,424	41,262	26,989,730	43,228			
Ozygen		86,989,015	1,102,523	112,757,727	1,238,987			
All other products 2		•••	181,750	-	99,014			
Total		-	2,422,486	-	2,625,698			
TOTAL		-	30,232,322	-	30,740,846			

Includes products reported by only 1 or 2 firms such as acetylene, acetic acid, 28%, glacial acetic acid, hydrochloric acid, hydrofluosilicic acid, phosphoric acid, nitric acid, butyl acetate, ethyl acetate, butyl alcohol, calcium carbide, calcium cyanamide, bleaching powder, liquid chlorine, iron phosphide, copper cyanide, copper carbonate, paraldehyde, phosphorus, soda ash, sodium cyanide, caustic soda, sodium hypochlorite, saltcake, glauber's salt, acetylene black and satin white.

² Includes calcium carbide, acetaldehyde, acetylene, electrodes, crude phosphorus, crude cyanamide, lime, calcined salt cake, nitrogen and sulphuric acid, 66°Be and 100%.

² Includes aqua and anhydrous ammonia, nitrogen and other products.



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