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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**  
**CENSUS OF INDUSTRY**  
**MINING, METALLURGICAL & CHEMICAL BRANCH**

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**THE ACIDS, ALKALIES AND SALTS**  
**INDUSTRY**  
**IN**  
**CANADA**  
**1935**

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OTTAWA - CANADA

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ANNUAL INDUSTRY BULLETIN

CHEMICALS AND ALLIED PRODUCTS GROUP

THE ACIDS, ALKALIES AND SALTS INDUSTRY, 1935.

Substantial improvement was recorded in Canada's heavy chemical industry during 1935 when production reached a value of \$19,012,615 compared with \$16,494,139 in 1934. This gain of 15 per cent brought the value to the highest point since 1930.

Twelve firms in this group in 1935 operated 18 factories of which 11 were in Ontario, 3 in Quebec, 3 in British Columbia and 1 in Nova Scotia. These works represented a capital investment of \$33,381,688 of which \$25,907,178 was given as the present value of land, buildings and equipment, \$4,172,459 as the value of inventories and \$3,302,051 as the total of operating capital.

The average number of employees was 2,627 in 1935 compared with 2,289 in 1934 and payments for salaries and wages amounted to \$3,490,897 as against \$2,841,853 in the preceding year.

The directory appended to this report lists the names of the companies which have been included in this industry and also indicates the products made in each of the establishments. The products include sulphuric acid, hydrochloric acid, nitric acid, glacial acetic acid, phosphoric acid, calcium carbide, calcium cyanamide, calcium chloride, caustic soda, soda ash, nitre cake, salt cake, Glauber's salt, sodium cyanide, di-sodium and tri-sodium phosphate, sodium silicate, sodium chlorate, sodium hypochlorite, liquid chlorine, phosphorus, acid calcium phosphate, synthetic ammonia, sulphur dichloride, ferric chloride, hydrogen peroxide, butyl acetate, ethyl acetate, paraldehyde, croton aldehyde, vinyl acetate, pentasol acetate, lead acetate, iso-butyl acetate, synthetic resins, acetylene carbon black, and liquid sulphur dioxide. Production statistics are not published for these items as, except for sulphuric acid, each was made by only one or two concerns and the Statistics Act does not permit publication of data which reveal in any way the operations of individual establishments.

Production of sulphuric acid during 1935 totalled 222,410 short tons, which was the highest reported for any year and exceeded the 205,525 tons of 1934 by 8 per cent and the 148,142 tons of 1933 by 50 per cent.

Sales of sulphuric acid by the producers during 1935 totalled 85,227 tons worth \$1,171,413 and stocks on hand on December 31, 1935, amounted to 7,758 tons. The remainder of the output was used in the producers' own works, chiefly at Trail, British Columbia, for the manufacture of fertilizers and at Copper Cliff, Ontario, for making nitre cake for use in the nickel smelter at that point.

An estimate of the Canadian consumption of sulphuric acid may be made by adding the production of 222,410 tons to the imports of 83 tons and deducting the exports of 1,027 tons. This calculation shows that the apparent consumption in 1935 totalled 221,466 tons.

Imports of acids of all kinds were valued at \$1,273,088 in 1935. Stearic acid, citric acid, tartaric acid and boracic acid were the more important items. Exports of acids were appraised at \$2,884,389.

Imports of inorganic chemicals totalled \$8,211,163 in 1935 including, among the more important items, sodium cyanide, sodium nitrate, zinc oxide, sulphate of alumina, liquid chlorine, calcium chloride, sodium bicarbonate, copper sulphate, tin bichloride, borax, caustic soda, sodium bichromate, sodium phosphate, litharge and sodium silicate. Exports of inorganic chemicals amounted to \$8,282,243, mostly calcium cyanamide and sodium compounds.

Table 1 - PRINCIPAL STATISTICS OF THE ACIDS, ALKALIES AND SALTS INDUSTRY, 1920-1935.

Years	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Selling value of products at works
		\$		\$	\$	\$	\$
1920 .....	25	28,439,339	3,033	4,774,855	1,018,354	4,448,870	16,736,068
1921 .....	24	29,945,120	1,546	2,496,016	495,200	2,852,696	11,867,268
1922 .....	21	30,811,922	1,880	2,437,844	516,516	2,671,177	11,756,372
1923 .....	24	31,963,419	2,488	3,318,679	1,957,997	4,505,307	15,105,724
1924 .....	20	30,182,113	2,121	3,025,998	1,747,137	3,788,776	16,753,201
1925 .....	20	32,236,424	2,084	2,992,695	1,819,602	3,955,988	16,874,490
1926 .....	19	34,589,930	2,040	3,075,649	2,140,193	3,643,357	18,526,247
1927 .....	17	31,134,457	1,881	2,858,644	1,798,799	4,090,509	17,086,788
1928 .....	16	40,024,624	2,517	3,490,409	2,225,883	4,998,088	21,256,286
1929 .....	15	49,417,431	2,897	4,338,686	2,921,129	6,301,121	28,021,972
1930 .....	17	52,314,567	2,409	3,502,834	2,490,790	4,712,471	20,111,602
1931 .....	14	44,994,828	1,694	2,426,880	2,167,585	2,407,682	10,952,497
1932 .....	14	44,067,194	1,679	2,211,467	2,103,675	2,283,076	11,357,649
1933 .....	15	44,239,418	1,891	2,315,425	1,407,378	2,463,958	12,713,045
1934 .....	16	45,033,355	2,289	2,841,853	1,872,137	3,674,265	16,494,139
1935 -							
Quebec .....	3	12,061,207	924	1,144,908	668,674	1,414,602	3,912,795
Ontario .....	11	20,203,778	1,653	2,277,701	1,460,385	3,111,304	13,800,723
Other provinces	4	1,116,703	50	68,288	29,633	80,807	1,299,097
CANADA .....	18	33,381,688	2,627	3,490,897	2,158,692	4,606,713	19,012,615



Table 2 - CAPITAL EMPLOYED, 1930 - 1935.

Years	Present value of	Inventory value of	Operating	TOTAL CAPITAL EMPLOYED
	lands, buildings, machinery, tools and other equip- ment	materials on hand, stocks in process, finished products, fuel and other supplies	capital (cash, bills and accounts receivable, etc.)	
	\$	\$	\$	\$
1930 .....	38,064,081	5,054,885	9,195,601	52,314,567
1931 .....	31,608,809	3,385,719	10,000,300	44,994,828
1932 .....	30,746,174	3,803,349	9,517,671	44,067,194
1933 .....	29,840,246	3,470,243	10,928,929	44,239,418
1934 .....	29,775,661	4,206,998	11,050,696	45,033,355
1935 -				
Quebec .....	9,793,360	1,237,639	1,030,208	12,061,207
Ontario .....	15,055,826	2,886,109	2,261,843	20,203,778
Other provinces.	1,057,992	48,711	10,000	1,116,703
CANADA .....	25,907,178	4,172,459	3,302,051	33,381,688

Table 3 - EMPLOYEES, SALARIES AND WAGES, 1930 - 1934.

Years	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL SALARIES AND WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
1930 .....	351	37	2,017	4	2,409	888,220	2,614,614	3,502,834
1931 .....	341	26	1,324	3	1,694	771,271	1,655,609	2,426,880
1932 .....	312	33	1,329	5	1,679	746,726	1,464,741	2,211,467
1933 .....	327	39	1,521	4	1,891	780,267	1,535,158	2,315,425
1934 .....	403	49	1,832	5	2,289	845,253	1,996,600	2,841,853
1935 -								
Quebec .....	144	18	760	2	924	425,330	719,578	1,144,908
Ontario .....	431	91	1,125	6	1,653	780,936	1,496,765	2,277,701
Other provinces.	9	1	40	..	50	21,627	46,661	68,288
CANADA .....	584	110	1,925	8	2,627	1,227,893	2,263,004	3,490,897

Table 4 - WAGE-EARNERS, BY MONTHS, 1934 and 1935.

Months	1934			1935		
	Male	Female	TOTAL	Male	Female	TOTAL
January .....	1,777	6	1,783	1,730	7	1,737
February .....	1,821	5	1,826	1,745	7	1,752
March .....	1,956	5	1,961	1,787	8	1,795
April .....	1,916	5	1,921	1,837	8	1,845
May .....	1,828	5	1,833	1,887	8	1,895
June .....	1,806	5	1,811	1,932	8	1,940
July .....	1,862	5	1,867	2,004	9	2,013
August .....	1,806	5	1,811	2,045	9	2,054
September .....	1,792	5	1,797	2,077	9	2,086
October .....	1,813	5	1,818	2,079	9	2,088
November .....	1,809	5	1,814	2,007	9	2,016
December .....	1,817	5	1,822	1,954	9	1,963
AVERAGE .....	1,832	5	1,837	1,925	8	1,933

Table 5 - FUEL AND ELECTRICITY USED, 1934 and 1935.

Kinds	Unit of measure	1 9 3 4		1 9 3 5	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian ..	short ton	1,498	9,575	1,986	11,617
Foreign ...	short ton	119,728	526,784	140,027	636,783
Anthracite coal .....	short ton	291	2,152	200	1,599
Coke .....	short ton	935	9,080	1,468	14,563
Gasoline .....	Imp. gal.	3,407	646	1,027	213
Fuel oil .....	Imp. gal.	726,109	47,753	669,817	44,375
Gas - Natural .....	M cu.ft.	...	...	910	486
Other fuel .....	xxx	...	19,440	...	26,991
Electricity purchased .....	K. W. H.	642,757,457	1,256,707	774,594,093	1,422,065
TOTAL .....	xxx	...	1,872,137	...	2,158,692
Electricity generated for own use .....	K. W. H.	64,724,128	...	77,671,797	...

Table 6 - POWER EQUIPMENT, 1934 and 1935.

Kinds	1 9 3 4		1 9 3 5	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines .....	35	9,942	36	9,920
Gasoline, gas and oil engines .....	1	135	...	...
Hydraulic turbines and water wheels ..	5	8,250	5	8,250
Total Primary Equipment .....	41	18,327	41	18,170
Electric motors operated by purchased power .....	1,256	34,745	1,982	52,486
TOTAL .....	1,297	53,072	2,023	70,656
Electric motors operated by above primary units .....	477	8,309	554	6,704
Total Electric Motors .....	1,733	43,054	2,536	59,190
Boilers .....	34	9,988	38	11,148

Table 7 - POWER EQUIPMENT SUBDIVIDED BETWEEN "ORDINARILY IN USE" and "IN RESERVE OR IDLE" 1935.

	Ordinarily in use		In reserve or idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines .....	31	7,962	5	1,958
Hydraulic turbines or water wheels ..	5	8,250	...	...
Total Primary Equipment .....	36	16,212	5	1,958
Electric motors operated by purchased power .....	1,917	45,358	65	7,128
TOTAL .....	1,953	61,750	70	9,086
Electric motors operated by above primary units .....	529	6,170	25	534
Total Electric Motors .....	2,446	51,528	90	7,662
Boilers .....	29	8,451	9	2,697



Table 8 - MATERIALS USED IN MANUFACTURING, 1934 and 1935.

Materials	Unit of measure	1934		1935	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Aluminium sulphate .....	lb.	192,259	3,841	202,996	4,499
Ammonia liquor .....	lb.NH <sub>3</sub>	268,015	9,978	326,816	15,781
Ammonia, anhydrous .....	lb.	11,700	2,295	9,773	1,922
Calcium carbonate (limestone) .....	ton	292,203	409,181	349,443	485,114
Calcium fluoride (fluorspar) .....	ton	2,177	29,790	2,695	34,347
Coke (not for fuel) .....	ton	75,777	497,161	97,815	629,691
Coal (not for fuel) .....	ton	17,553	106,603	18,940	112,682
Electrodes .....	xx	...	208,776	...	214,528
Iron sulphide (pyrites) .....	ton	10,947	75,352	12,327	72,584
Lime, hydrated .....	ton	15	251	21,455	32,182
Lime, quick .....	ton	150	2,196	55,975	319,435
Silica sand and quartz .....	ton	12,945	55,330	13,590	63,195
Sodium carbonate (soda ash) .....	ton	4,927	132,267	6,158	169,651
Sodium chloride (common salt) including brine (salt content) .....	ton	136,648	183,214	171,391	286,358
Sodium hydroxide (caustic soda) .....	ton	678	45,956	806	52,440
Sodium nitrate .....	ton	554	21,470	743	28,769
Sodium silicate (water glass) .....	ton	1,797	50,028	3,026	84,663
Sodium sulphate (salt cake) .....	ton	26,075	368,576	22,485	316,734
Sulphur (brimstone) .....	ton	16,111	327,444	14,301	295,336
Sulphuric acid, 66° Be .....	ton	2,821	57,781	3,303	74,240
Containers and steel for containers ..	xx	...	435,076	...	606,053
All other materials .....	xx	...	651,701	...	706,509
<b>TOTAL .....</b>		...	<b>3,674,265</b>	...	<b>4,606,713</b>

Table 9 - IMPORTS INTO CANADA OF ACIDS AND CERTAIN INORGANIC CHEMICALS, 1935.

Commodities	Quantity	Value
		\$
<u>ACIDS</u>		
Inorganic acids -		
Acid, boracic, in packages not less than 25 pounds .....	lb.	1,177,122 44,037
Acid, hydrofluosilicic .....	lb.	12,036 1,747
Acid, muriatic .....	lb.	253,254 11,955
Acid, nitric .....	lb.	223,352 21,831
Acid, phosphoric .....	lb.	160,530 6,728
Acid, sulphuric .....	lb.	165,539 9,349
Organic acids -		
Acid, acetic and pyroligneous, crude, of any strength not exceeding 30% .....	gal.	97 136
Acid, acetic and pyroligneous, n.o.p. ....	gal.	438 1,042
Acid, citric .....	lb.	632,119 138,619
Acid, cresylic, for use only in the manufacture of preparations for disinfecting, dipping and spraying ..	lb.	165,213 6,959
Cresylic acid and compounds of cresylic acid used in concentrating ores, n.o.p. ....	lb.	397,744 13,801
Xanthatcs and sulpho-thio-phosphoric (dithio-phosphoric) compounds for use in concentrating ores, etc. ....	lb.	2,062,633 336,881
Acid, oxalic .....	lb.	338,980 34,263
Acid, stearic, n.o.p. ....	lb.	2,088,190 146,082

Table 9 - IMPORTS INTO CANADA OF ACIDS AND CERTAIN INORGANIC CHEMICALS, 1935 (continued)

Commodities	Quantity	Value
\$		
<u>ACIDS (concluded)</u>		
Organic acids (concluded) -		
Acid, stearic, when imported by manufacturers of candles or crayons for use only in their own factories in the manufacture of candles or crayons .....	lb. 106,893	9,191
Acid, tannic .....	lb. 45,795	22,679
Tartaric acid, crystals .....	lb. 620,359	126,713
Acids, others, n.o.p. ....	lb. 2,505,310	341,075
Total Acids .....	xx ...	1,273,088
<u>INORGANIC CHEMICALS, N.O.P.</u>		
Alum in bulk, ground or unground, but not calcined .....	cwt. 27,033	36,757
Chloralum and chloride of aluminium .....	cwt. 215	1,757
Sulphate of iron (copperas) .....	cwt. 14,068	11,701
Sulphate of alumina or alum cake .....	cwt. 594,802	615,090
Ammonia and its compounds -		
Ammonia, nitrate of .....	lb. 3,022,524	108,638
Sal ammoniac .....	lb. 2,496,337	86,256
Sal ammoniac skimmings .....	lb. 277,725	8,856
Ammonia, sulphate of .....	cwt. 85,608	94,222
Ammonia compounds, n.o.p. ....	lb. 3,129,488	52,956
Antimony, arsenic, copper, tin and zinc compounds -		
Antimony salts, viz.: tartar emetic, chloride and lactate (antimonine) .....	lb. 48,516	7,907
Arsenic, sulphide of .....	lb. 27,777	3,496
Arsenious oxide .....	lb. 11,756	546
Copper, sub-acetate of, or verdigris, dry .....	lb. 6,613	1,062
Copper sulphate (blue vitriol) .....	lb. 5,518,899	161,092
Copper sulphate, dehydrated for agricultural or spraying purposes .....	lb. 32,100	2,747
Tin, bichloride of, or tin crystals .....	lb. 628,399	167,922
Zinc, sulphate of .....	lb. 2,042,284	29,459
Zinc, chloride of .....	lb. 1,869,056	55,942
Zinc oxide .....	lb. 11,768,314	460,122
Bismuth and lead compounds -		
Bismuth salts .....	.. ...	11,613
Lead, acetate of, not ground .....	lb. 216,600	16,504
Lead, arsenate of .....	lb. 324,328	26,388
Compounds of tetraethyl lead .....	lb. 2,381,734	1,249,477
Lead, nitrate of, not ground .....	lb. 201,160	11,447
Lead, red, and orange mineral .....	lb. 595,584	35,392
Bromine, chlorine and iodine compounds -		
Bromine .....	lb. 766	608
Bromides, crude .....	lb. 83	92
Chlorine, liquid or chlorine gas .....	lb. 10,436,566	221,134
Iodine, crude .....	lb. 57,462	65,366
Calcium compounds -		
Arsenate of lime .....	lb. 144,023	7,786
Calcium acetate .....	lb. 88	28
Calcium chloride, in packages of not less than 25 pounds .....	cwt. 9,247	8,163
Calcium chloride, in packages of less than 25 pounds ...	lb. 652	175



Table 9 - IMPORTS INTO CANADA OF ACIDS AND CERTAIN INORGANIC CHEMICALS, 1935 (continued)

Commodities	Quantity	Value
\$		
<u>INORGANIC CHEMICALS, N.O.P. (continued)</u>		
Calcium compounds (concluded)		
Calcium chloride, not in solution, for road treating purposes .....	cwt. 280,190	268,410
Chloride of lime and hypochlorite of lime, in packages of not less than 25 pounds .....	cwt. 34,139	61,371
Chloride of lime and hypochlorite of lime, in packages of less than 25 pounds .....	lb. 47,229	5,781
Calcium molybdate, when imported by manufacturers of steel for use exclusively in the manufacture of steel in their own works .....	lb. 74,994	26,192
Potash and potassium compounds, n.o.p. -		
Cream of tartar in crystals .....	lb. 936,085	134,794
Potash and pearl ash, in packages of not less than 25 pounds .....	lb. 396,656	20,682
Potash and pearl ash, in packages of less than 25 pounds .....	lb. 638	104
Potash, bicarbonate of .....	lb. 12,310	1,187
Potash, bichromate of, crude .....	lb. 151,336	12,159
Potash, sulphate of, crude .....	cwt. 56,732	73,098
Potash, muriate of, crude .....	cwt. 608,295	485,086
Potash, caustic, in packages of not less than 25 pounds .....	lb. 915,863	65,091
Potash, caustic, in packages of less than 25 pounds .....	lb. 1,496	586
Potash, chlorate of, not further prepared than ground .....	lb. 1,451,646	78,146
Potash, red and yellow prussiate of .....	lb. 42,775	8,128
Saltpetre or nitrate of potash .....	lb. 1,390,495	65,049
Potash compounds, n.o.p. ....	lb. 351,060	57,847
Soda and sodium compounds, n.o.p. -		
Borax, in packages of not less than 25 pounds .....	lb. 5,340,059	105,414
Glauber's salt .....	lb. 3,167,715	26,591
Soda, arseniate, biarseniate and stannate of .....	lb. 2,128	666
Soda ash or barilla .....	lb. 2,647,572	37,995
Soda, bicarbonate of .....	lb. 12,009,724	207,325
Soda, bichromate of .....	lb. 2,634,271	148,421
Soda, bisulphate of, or nitre cake .....	lb. 938,759	12,793
Soda, bisulphite of .....	lb. 684,345	24,835
Soda, caustic, when in packages of not less than 25 pounds .....	lb. 4,819,108	138,656
Soda, caustic, when in packages of less than 25 pounds .....	lb. 52,270	5,603
Soda, caustic, in solution .....	lb. 4,687,222	107,101
Soda, chlorate of .....	lb. 5	3
Soda, hyposulphite, when imported by tanners for use in their own factories in the tanning of leather ..	lb. 1,227,985	24,158
Soda, hyposulphite of, n.o.p. ....	lb. 1,411,865	33,695
Soda, nitrate of .....	cwt. 444,120	559,327
Soda, nitrite of .....	lb. 265,946	10,299
Soda, peroxide of .....	lb. 60,183	13,634
Soda, phosphate of .....	lb. 3,739,007	124,328
Soda, prussiate of .....	lb. 439,610	40,737
Soda, sulphite of .....	lb. 1,060,891	24,383

Table 9 - IMPORTS INTO CANADA OF ACIDS AND CERTAIN INORGANIC CHEMICALS, 1935 (concluded)

Commodities	Quantity	Value
		\$
<u>INORGANIC CHEMICALS, N.O.P. (concluded)</u>		
Soda and sodium compounds, n.o.p. -		
Soda, sal .....	lb. 390,692	4,827
Soda, cyanide of .....	lb. 4,396,742	668,592
Soda, silicate of, in crystals or in solution .....	lb. 9,460,193	100,076
Soda, sulphate of, crude, known as salt cake .....	lb. 10,352,070	49,354
Soda, sulphide of .....	lb. 4,299,601	95,223
Sodium compounds, n.o.p. ....	lb. 6,911,935	359,208
Other inorganic chemicals -		
Acid, phosphate, not medicinal .....	lb. 794,233	55,449
Hydrogen peroxide, solutions of .....	lb. 306,898	44,050
Magnesia (magnesium oxide) .....	lb. 275,265	28,304
Magnesium carbonate, when imported for use in the manufacture of rubber products .....	lb. 1,099,109	49,456
Magnesium sulphate or Epsom salts .....	lb. 3,684,390	40,407
Mercury salts .....	xx	7,374
Phosphorus and compounds thereof, n.o.p. ....	lb. 109,986	36,549
Litharge .....	cwt. 17,504	100,689
<b>Total Inorganic Chemicals</b> .....	<b>xx</b>	<b>8,211,163</b>

Table 10 - EXPORTS FROM CANADA OF ACIDS AND INORGANIC CHEMICALS, 1935

	Quantity	Value
		\$
Acid, sulphuric .....	cwt. 20,533	13,736
Acids, other, n.o.p. ....	cwt. 463,896	2,870,653
<b>Total Acids</b> .....	<b>xx</b>	<b>2,884,389</b>
Ammonium sulphate .....	cwt. 901,106	977,552
Calcium cyanamide .....	cwt. 2,270,533	2,426,813
Soda and sodium compounds .....	cwt. 693,951	4,072,888
Cobalt oxides and cobalt salts .....	lb. 378,274	370,160
Other inorganic chemicals, n.o.p. ....	xx	389,260
Acetate of lime .....	cwt. 27,433	45,570
<b>Total Inorganic Chemicals</b> .....	<b>xx</b>	<b>8,282,243</b>

LIST OF FIRMS INCLUDED IN THE ACIDS, ALKALIES AND SALTS INDUSTRY, 1935.

<u>Names of Companies</u>	<u>Location of Plants</u>	<u>Products Reported in 1935.</u>
Dominion Steel & Coal Corporation Limited	Sydney, N.S.	Sulphuric acid.
Canadian Industries Limited	Shawinigan Falls, P.Q.	Hydrogen peroxide, liquid.
Electric Reduction Co. of Canada, Limited	Buckingham, P.Q.	Phosphorus, phosphoric acid, ferro-phosphorus, sodium chlorate, acid calcium phosphate, di-sodium phosphate tri-sodium phosphate, and atlacide (weed killer).



LIST OF FIRMS INCLUDED IN THE ACIDS, ALKALIES AND SALTS INDUSTRY, 1935. (continued)

<u>Names of Companies</u>	<u>Location of Plants</u>	<u>Products Reported in 1935.</u>
Shawinigan Chemicals Limited	Shawinigan Falls, P.Q.	Calcium carbide, acetylene carbon black, glacial acetic acid, butyl acetate, ethyl acetate, paraldehyde, croton aldehyde, vinyl acetate, pentasol acetate, hydrated lime, gelva and alvar (synthetic resins), lead acetate, iso-butyl-acetate, frothing agent.
Brunner, Mond Canada, Limited	Amherstburg, Ont.	Sodium carbonate (soda ash), tanners alkali (sodium carbonate and sodium hydroxide), super-alkali (sodium carbonate and sodium hydroxide), and calcium chloride.
Canadian Hanson & Van Winkle Co. Ltd.	15 Morrow Avenue, Toronto, Ont.	Plating and galvanizing salts (copper cyanide, copper carbonate, zinc cyanide, nickel salts, tin salts, etc.)
Canadian Industries Limited	Copper Cliff, Ont.	Sulphuric acid, sodium bisulphate (nitre cake).
Canadian Industries Limited	Cornwall, Ont.	Hydrochloric acid, liquid chlorine, sodium hydroxide (caustic soda).
Canadian Industries Limited	Burlington St., Hamilton, Ont.	Hydrochloric acid, sulphuric acid, sodium sulphate (Glauber's salt), sodium sulphate (salt cake), soldering flux and sulphur dioxide (liquid).
Canadian Industries Limited	Sandwich, Ont.	Hydrochloric acid, liquid chlorine, sodium hydroxide (caustic soda), sodium hypochlorite, synthetic anhydrous ammonia, aqua ammonia, 26°, sulphur dichloride and ferric chloride, lye-vat alkali, bleaching powder.
Electro Metallurgical Co. of Canada, Limited	Welland, Ont.	Calcium carbide.
H. S. & T. Crystal Co. Ltd.	169 Yonge St., Toronto, Ont.	Satin white, solvents.
National Silicates Limited	New Toronto, Ont.	Sodium silicate.

LIST OF FIRMS INCLUDED IN THE ACIDS, ALKALIES AND SALTS INDUSTRY, 1935 (concluded)

<u>Names of Companies</u>	<u>Location of Plants</u>	<u>Products Reported in 1935</u>
The Nichols Chemical Company Limited	Sulphide, Ont.	Nitric acid, sulphuric acid, sodium bisulphate (nitre cake).
North American Cyanamid Limited	Niagara Falls, Ont.	Calcium cyanamide, sodium cyanide, and sodium silicate.
Canadian Industries Limited	New Westminster, B.C.	Sulphuric acid and hydrochloric acid.
Consolidated Mining & Smelting Company of Canada, Limited	Trail, B.C.	Hydrofluosilicic acid and sulphuric acid.
The Nichols Chemical Company, Limited	Barnet, B.C.	Sulphuric acid.

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