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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.) Chief - Mining, Metallurgical and Chemical Branch: W. H. Losee, B.Sc.

ANNUAL INDUSTRY BULLETIN

CHEMICALS AND ALLIED PRODUCTS GROUP

THE COMPRESSED GASES INDUSTRY, 1935.

Production from the Compressed Gases Industry in 1935 was valued at \$3,077,765 compared with \$2,803,840 in 1934 and \$2,490,215 in 1933.

Twenty-eight factories were included in this industry in 1935 as follows:
13 in Ontario, 5 in Quebec, 3 in Manitoba, 2 in Nova Scotia, 2 in Alberta, 2 in
British Columbia and 1 in Saskatchewan. One new factory, that of Carbo-Ice (Toronto)
Limited, at Leaside, Ontario, reported for the first time while the works of the
Liquid Carbonic Canadian Corporation Limited at Wabash Avenue, Toronto, was closed
down and dismantled. This latter company took over and now operates the factory
formerly run by the Dominion Carbonic Company Limited at Mill and Trinity Streets,
Toronto.

The average number of employees in these 28 establishments in 1935 was 510 including 271 salaried workers and 239 wage-earners; salaries and wages for the year totalled \$741,631. The 13 establishments in Ontario employed 271 workers and made industrial gases worth \$1,336,629 while the 5 factories in Quebec gave work to 95 persons and made products valued at \$773,495.

The main products were oxygen, acetylene, carbon dioxide and hydrogen and each of these were made in greater quantities than in 1934. Acetylene output increased 6 per cent to 39,922,683 cubic feet; oxygen, 19 per cent to 136,059,706 cubic feet; carbon dioxide, in cylinders, 3 per cent to 4,849,687 pounds, and hydrogen, 38 per cent to 40,134,386 cubic feet.

The Compressed Gases Industry, as reviewed in this report, includes only those firms which made industrial gases as their main products. In addition, liquid chlorine and synthetic ammonia were manufactured in the Sandwich plant of Canadian Industries Limited but data pertaining to these departments were not shown separately from the general plant operations and so have been included in the Acids, Alkalies and Salts Industry. Synthetic ammonia (and the hydrogen and nitrogen for its manufacture) was also made at Trail, B.C., by the Consolidated Mining and Smelting Company of Canada but as all of the output was used in making ammonia fertilizers, the statistics relating thereto have been included in the fertilizers industry. Similarly, acetylene was made by Shawinigan Chemicals Limited at Shawinigan Falls for use in their own works in making acetic acid, etc., and nitrogen was produced as an intermediate by the North American Cyanamid Company at Niagara Falls for use in the manufacture of calcium cyanamide. Pintsch gas for lighting railway coaches was made at several divisional points but these plants have always been classified to the artificial gas industry and again have been included in that group. Sulphur dioxide was made at Hamilton, Ontar o, by Canadian Industries Limited, but this output has been included in the report for ine general chemical plant at that point,

No. of plants . 25 . 26 . 25 . 23 . 21	Capital employed \$ 4,033,677 4,218,484 4,351,232 4,472,896	309	Salaries and wages \$ 669,120 508,932 479,517	Cost of fuel and electricity at works 54,054 35,405 31,057	at works \$ 363,664 301,839	2,001,898
. 25 . 26 . 25 . 23 . 21	\$ 4,033,677 4,218,484 4,351,232 4,472,896	ployees 446 318 309	wages \$ 669,120 508,932	8 54,054 35,405	at works \$ 363,664 301,839	at works \$ 1,993,141 2,001,898
. 26 . 25 . 23 . 21	4,033,677 4,218,484 4,351,232 4,472,896	446 318 309	\$ 669,120 508,932	\$ 54,054 35,405	\$ 363,664 301,839	\$ 1,993,141 2,001,898
. 26 . 25 . 23 . 21	4,033,677 4,218,484 4,351,232 4,472,896	318 309	669,120 508,932	54,054 35,405	363,664 301,839	2,001,898
. 26 . 25 . 23 . 21	4,218,484 4,351,232 4,472,896	318 309	508,932	35,405	301,839	1,993,141 2,001,898
. 25 . 23 . 21	4,351,232 4,472,896	309	,			
. 23	4,472,896		479,517	31 057	990 666	
. 21		300		01,001	280,666	1,908,269
		000	461,764	92,541	488,879	2,165,445
00	4,115,958	292	443,322	89,614	401,951	2,051,448
. 20	3,420,104	325	481,595	83,309	370,569	2,086,613
. 24	3,799,733	360	521,824	118,744	435,729	2,422,486
. 25	4,177,794	404	604,417	133,097	550,795	2,625,698
. 25	4,226,037	426	652,893	148,765	479,587	3,145,884
. 28	4,995,560	542	770,424	155,685	785,377	3,967,419
. 30	5,020,875	472	737,240	153,796	504,975	3,557,486
. 30	4,597,170	420	654,364	134,433	429,048	2,818,306
. 31	4,326,599	422	617,901	121,873	380,795	2,504,550
. 31	4,024,437	428	613,278	117,382	371,204	2,490,215
. 28	3,734,447	446	646,981	116,887	378,111	2,803,840
. 28	4,316,244	510	741,631	137,134	433,045	3,077,765
100 Let 10	or durant regards		and the care are		Mariana Andrea	
	25 25 28 30 30 31 31 28 28	25 4,177,794 25 4,226,037 28 4,995,560 30 5,020,875 30 4,597,170 31 4,326,599 31 4,024,437 28 3,734,447 28 4,316,244	25 4,177,794 404 25 4,226,037 426 28 4,995,560 542 30 5,020,875 472 30 4,597,170 420 31 4,326,599 422 31 4,024,437 428 28 3,734,447 446 28 4,316,244 510	25 4,177,794 404 604,417 25 4,226,037 426 652,893 28 4,995,560 542 770,424 30 5,020,875 472 737,240 30 4,597,170 420 654,364 31 4,326,599 422 617,901 31 4,024,437 428 613,278 28 3,734,447 446 646,981 28 4,316,244 510 741,631	25 4,177,794 404 604,417 133,097 25 4,226,037 426 652,893 148,765 28 4,995,560 542 770,424 155,685 30 5,020,875 472 737,240 153,796 30 4,597,170 420 654,364 134,433 31 4,326,599 422 617,901 121,873 31 4,024,437 428 613,278 117,382 28 3,734,447 446 646,981 116,887 28 4,316,244 510 741,631 137,134	25 4,177,794 404 604,417 133,097 550,795 25 4,226,037 426 652,893 148,765 479,587 28 4,995,560 542 770,424 155,685 785,377 30 5,020,875 472 737,240 153,796 504,975 30 4,597,170 420 654,364 134,433 429,048 31 4,326,599 422 617,901 121,873 380,795 31 4,024,437 428 613,278 117,382 371,204 28 3,734,447 446 646,981 116,887 378,111 28 4,316,244 510 741,631 137,134 433,045

	TRAINE 1	o dune comis	ONE VARIAV	Elilla Colonia	ner minusik et	A COLUMN	A A CALL STORY
Table 2 - PRINC	CIPAL STA	ATISTICS, BY	PROVINCES	. 1934 and	5 - 7 - 15 - 15 - 15 - 12 - 13	The Property	
	Burg of the		Average	WILL BEILD	Cost of	Other last colling	Selling
	No. of	Capital	number	Salaries	fuel and	Cost of	value of
Years	plants	employed	of em-	and	electricity	materials	products
			ployees	wares	at works	at works	at works
	114 3 30	\$	as a University of the	\$	SANS SANSTRUCT	\$	\$
1934	HENNE.		e etani r	H. Mury 1949	12 22 AND	S IN ESSENT A SI	
Quebec	. 5	721,421	94	126,214	27,024	90,801	712,608
Ontario	. 13	2,005,196	206	323,517	59,475	155,743	1,173,383
Manitoba		282,183	46	59,698	6,297	34,938	264,086
Nova Scotia		Service Laboratory					
Saskatchewan	ALCOHOL: US	725,647	100	137,552	24,091	96,629	653,763
Alberta		A SUMMER					THE STATE OF THE S
British Columbi	la 2)						
CANADA	. 28	3,734,447	446	646,981	116,887	378,111	2,803,840
and the second	STILL TER		- A HER WAR	emilian edit		1 th 15/4 Will	CONTRACT
1935					Jan Salara		ROSE
Quebec	. 5	949,395	95	130,455	27,449	122,135	773,495
Ontario	. 13	2,357,458	271	406,879	77,541	181,880	1,336,629
Manitoba		283,430	45	59,583	7,307	32,064	263,878
Nova Scotia	2)						1 102133002
Saskatchewan		725,961	99	144,714	24,837	96,966	703,763
Alberta		to her one	13 Sadasuk	Total Town			TO SERVICE STATE OF THE PERSON
British Columbi	la 2)	DEPARTMENT OF					
CANADA	. 28	4,316,244	510	741,631	137,134	433,045	3,077,765

THE THE STATE OF T

		-3-		
Table 3 - SIZE OF	ESTABLISHMENTS, 193	5.		
	Number of		Average number	Selling value o
	plants	employed	of employees	products at wor
(a) PRODUCTION				•
	A	149 000	70	DA 588
Under \$25,000 \$25,000		142,696	32 51	74,537
\$50,000 to \$100,00	00 6	1,042,975	75	183,197
Over \$100,000		2,518,709	352	419,557 2,400,474
	28	4,316,244	510	3,077,765
1011113 003	LU	2,010,622	010	5,077,100
(b) EMPLOYEES				
1 to 10		759,476	64	521,057
11 to 20		597,258	113	1,027,275
over 20		2,959,510	333	1,529,433
TOTAL		4,316,244	510	3,077,765
(a) CAPTERIT TO	DIOWED			
(c) CAPITAL EM		00 040	70	477 707
Under \$25,000		69,648	30	433,707
\$25,000 to \$100,0		841,463	140	1,164,271
\$100,001 to \$200,		917,868	123	758,620
Over \$200,000		2,487,265	217	721,167
TOTAL	28	4,316,244	510	3,077,765
Table 4 - CAPITAL	EMPLOYED, 1934 and	1935。	Charles and the second	The state of the s
	No. of the second	Inventory value	SEE STREET	Copies and norgest
	Present value of	of materials on	Operating capita	1
	lands, buildings,	hand, stocks in	(cash, bills and	
	machinery, tools	process, fuel,	accounts receive	
Provinces	and other equip-		prepaid expenses	, EMPLOYED
ALC: NET WHITE	ment	and miscellaneous	etc.)	
		supplies on hand	4.0 5-03-1 图·特殊	
MARIN LIFE ROLLING		\$	\$	\$
1934				E. B. B. B.
Quebec	597,838	62,316	61,267	721,421
Ontario	870,863	131,609	1,002,724	2,005,196
Manitoba	218,469	25,164	38,550	282,183
Other provinces.	561,730	65,532	98,385	725,647
CANADA	2,248,900	284,621	1,200,926	3,734,447
1085				The state of the s
1935	005 000			040 505
A . 1			969 906	
Quebec	625,762	55,427	268,206	949,395
Ontario	1,148,236	104,632	1,104,590	2,357,458
Ontario	1,148,236 223,073	104,632 20,916	1,104,590 39,441	2,357,458 283,430
Ontario Manitoba Other provinces.	1,148,236 223,073 571,383	104,632 20,916 43,333	1,104,590 39,441 111,245	2,357,458 283,430 725,961
Ontario	1,148,236 223,073	104,632 20,916	1,104,590 39,441	2,357,458 283,430
Ontario Manitoba Other provinces. CANADA	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG	104,632 20,916 43,333 224,308 ES, 1934 and 1935.	1,104,590 39,441 111,245 1,523,482	2,357,458 283,430 725,961 4,316,244
Ontario Menitoba Other provinces. EANADA Table 5 - EMPLOYE	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of	104,632 20,916 43,333 224,308 GES, 1934 and 1935. of employees	1,104,590 39,441 111,245 1,523,482	2,357,458 283,430 725,961 4,316,244
Ontario Manitoba Other provinces. CANADA	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On was	104,632 20,916 43,333 224,308 EES, 1934 and 1935. of employees	1,104,590 39,441 111,245 1,523,482	2,357,458 283,430 725,961 4,316,244 TOTAL SALARIES
Ontario Menitoba Other provinces. EANADA Table 5 - EMPLOYE	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On was	104,632 20,916 43,333 224,308 GES, 1934 and 1935. of employees	1,104,590 39,441 111,245 1,523,482 Salaries Wag	2,357,458 283,430 725,961 4,316,244 TOTAL Ses SALARIES AND WAGES
Ontario Manitoba Other provinces. CANADA Table 5 - EMPLOYE Provinces	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On was	104,632 20,916 43,333 224,308 EES, 1934 and 1935. of employees	1,104,590 39,441 111,245 1,523,482	2,357,458 283,430 725,961 4,316,244 TOTAL Ses SALARIES AND WAGES
Ontario Manitoba Other provinces. CANADA Table 5 - EMPLOYE Provinces 1 9 3 4	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On was Male Female Male	104,632 20,916 43,333 224,308 GES, 1934 and 1935. of employees ges Female TOTAL	1,104,590 39,441 111,245 1,523,482 Salaries Wag	2,357,458 283,430 725,961 4,316,244 TOTAL SALARIES AND WAGES
Ontario Manitoba Other provinces EANADA Table 5 - EMPLOYE Provinces 1 9 3 4 Quebec	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On war Male Female Male	104,632 20,916 43,333 224,308 EES, 1934 and 1935. of employees ges Female TOTAL	1,104,590 39,441 111,245 1,523,482 Salaries Wag \$ 71,666 54,5	2,357,458 283,430 725,961 4,316,244 TOTAL SALARIES AND WAGES \$
Ontario Manitoba Other provinces CANADA Table 5 - EMPLOYE Provinces 1 9 3 4 Quebec Ontario	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On war Male Female Male 33 8 51 86 33 86	104,632 20,916 43,333 224,308 EES, 1934 and 1935. of employees ages Female TOTAL	1,104,590 39,441 111,245 1,523,482 Salaries Wag \$ 71,666 54,5 216,211 107,5	2,357,458 283,430 725,961 4,316,244 TOTAL SALARIES AND WAGES 4 4 506 126,214 323,517
Ontario Manitoba Other provinces EANADA Table 5 - EMPLOYE Provinces 1 9 3 4 Quebec	1,148,236 223,073 571,383 2,568,454 ES, SALARIES AND WAG Average number of On salaries On war Male Female Male	104,632 20,916 43,333 224,308 EES, 1934 and 1935. of employees ges Female TOTAL	1,104,590 39,441 111,245 1,523,482 Salaries Wag \$ 71,666 54,5	2,357,458 283,430 725,961 4,316,244 TOTAL Ses SALARIES AND WAGES \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

181	Av	erage nv	umber of	employ	ees		AWE(OW)	TOTAL
rovinces		laries	On wage		The second second	Salaries	Wages	SALARIES
ALL HOTHER		Female	Male F		TOTAL	A THE WAIT		AND WAGES
1	SILET				A.L. Eller E.	\$	\$	8
1935					A STATE OF THE PARTY OF THE PAR		187 C S 1	A CONTRACTOR
Quebec	34	7	52	2	95	74,091	56,364	130,455
Ontario	125	35	110	î	271	277,897		406,879
Manitoba	16	4	24	i	45	33,384		59,583
	35	15	48	1	99			144,714
Other provinces	The second secon	61				89,162		
CANADA	210	DT	234	5	510	474,554	237,097	741,631
Table 6 - WAGE-EAR	PHTPS.	BY MON"	MIC 1956	end 1	025		1	5
Table 0 - mark	I I	DI Boot		5 4	3000	. 1	9 5 5	11 11 20 160
Months		Male	Fema		TOTAL	Male	Female	TOTAL
January		199	3		202	208	2	210
February		202	2	10 CT	204	213	3	216
March		206	2	500 50	208	211	3	214
		211	5		214	227	4	231
April		215	4		214	238	4	242
May			CONTRACTOR OF THE PARTY OF THE			CONTRACTOR AND ADDRESS.	CONTRACTOR OF THE PARTY OF THE	4 ""
June		220	5	1301-13V	225	241	3	244
July		225	5		230	255	6	261
August		230	4		234	248	6	254
September		222	5	4 4 44	227	233	3	236
October		217	4	INETES	221	235	3	238
November		211	3		214	231	3	234
December		211	3	CALL LAND	214	233	3	236
AVERAGE		213	4		217	234	5-2	239
			- Marchalle	1.0112	A Transfer	- LYDISHY		
Table 7 - FUEL ANI	D ELEC	TRICITY	USED, 19	34 and		Encircles, the second		A THE SECOND
SECRETARION OF THE PROPERTY OF THE PARTY OF	100 330		To the	TAKE TO	1 9 3	And the second name of the second	1 9	3 5
Kinds			Unit of	DE NE	and This say	Cost at	Control Service	Cost at
	THE P. LEWIS		measure	4 4 5 K 1 1 1	Quantity		Quantity	works
CONCENTRATION OF THE PROPERTY OF THE PARTY O	257770				A CONTRACTOR OF THE PARTY	and the cost of	SANCENSING AND A	La Saddie
Bituminous coal -	Canad	iian ana	short to	OM CO	447	3,526	606	4,757
DA VIERLES CONTRACTOR			short to		658	3,630	336	2,213
Anthracite coal					439		276	2,163
Coke					1,373	and the second s	4,706	13,954
Gasoline					514	Action to the second se	215	57
Fuel oil					The second second		9,980	509
					8,451		THE RESERVE OF THE PARTY OF THE	509 529
Gas - Manufacture					419		419	
Natural				· **	1,737		2,334	775
Other fuel				28.54	000		• • • •	4,111
Electricity purcha				. 10	0,532,516		54,277,790	108,286
TOTAL			XX		000	116,887	000	137,134
	72		12 In	120 7	COSTENES!	Chicago 1844	ARIESKOS HOUSE	- 1 - 120
Table 8 - POWER E						Was in the same		
		South to	1275		narily in	the same of the sa	In reserve o	
Kinds	4 4 4 1				er of Tot			otal rated
				unj	its hor	rse power	units ho	orse power
Steam engines and	4 297	- tumbin			F ALLEY	290	1	40
Total Prime					5	290	1	
TOTAL .	ally on				5	230	1	40
			N	1		1 000		
Electric motors ru	un by	purchase			15 4 159	4,980 5,270	• •	40

Table 9 - MATERIALS USED, 1934 and 1935.

TAL RIES RAGES

at

er

	1 9	3 4	1 9	3 5
Materials Unit of measure	Quantity	Cost at works	Quantity	Cost at works
		8	,	\$
Acetone	148,517	25,557	139,594	24,300
Calcium carbide ton	4,062	244,721	4,333	260,876
Coke ton	1,868	19,853	2,810	29,796
Other materials (x)	•••	84,015		79,645
Cylinders purchased during the year No.	102	3,965	2,685	38,428
TOTAL		378,111	• • •	433,045

(x) Includes ammonia liquor, ammonium nitrate, potassium carbonate, unpurified brewery gas, lime, soda ash, condensing water, etc.

Table 10 - PRODUCTS MANUFACTURED, 1934 and 1935.

		1 9 3 4	1	3 5
Products	Unit of	Selling val	ue	Selling value
	measure	Quantity at works	Quantity	at works
₩. 2-91	the factor of PARIS.	\$		\$
Acetylene	cu.ft.	37,599,346 913,482	39,922,683	975,710
Carbon dioxide in	cylinders. 1b.	4,713,997 414,424	4,849,687	429,775
Hydrogen	cu.ft.	29,163,244 44,920	40,134,386	50,402
Oxygen	cu.ft.	113,940,515 1,119,427	136,059,706	1,273,060
Other products (x)	XX	311,587	0.00	348,818
TOTAL	XX	2,803,840		3,077,765

(x) Includes aqua and anhydrous ammonia, nitrogen, solid carbon dioxide and nitrous oxide, for which figures cannot be shown separately as each was produced by only one company in this group.

Table 11 - PRODUCTION OF ACETYLENE, CARBON DIOXIDE, and OXYGEN, 1918 - 1935.

Table II - INCONCION OF AUEL	DEAD, CARDON DIOXII	Carbon	0 - 1500:
Years	Acetylene	dioxide(x)	Oxygen
	Cubic feet	Pounds	Cubic feet
THE RESERVE AND PARTY OF THE PA	STREET, STREET	AND THE PROPERTY OF THE PARTY O	STATE TO STATE STATE OF THE STA
1918	5,484,755	2,742,632	33,880,000
1919	11,684,646	3,571,681	34,768,587
1920	16,121,701	8,582,149	54,618,400
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	5,428,953	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	138,688,619
1929	46,009,766	6,818,800	166,066,394
1.930	44,181,816	6,632,544	152,419,201
3.931	37,048,521	5,437,464	120,326,797
1932	33,744,251	6,057,311	92,828,715
1933	32,387,312	5,410,993	93,511,573
1934	37,599,346	4,713,998	113,940,515
1935	39,922,683	4,849,687	136,059,706
	- 1	AND RESIDENCE OF THE PARTY OF T	The state of the s

⁽x) Not including solid carbon dioxide (dry ice).

	Ontario	Quebec	Other provinces	CANADA
ACETYLENE -		20		
1928 cu.ft.	14,032,110	11,203,260	12,106,731	37,342,101
1929 cu.ft.	18,463,129	12,854,099	14,692,538	46,009,766
1930 cu.ft.	18,569,197	11,463,532	14,149,087	44,181,816
1931 cu.ft.	14,680,022	9,483,373	12,885,126	37,048,521
1932 cu.ft.	12,962,120	8,141,640	12,640,491	33,744,251
1933 bu.ft.	12,004,827	7,879,957	12,502,528	32,387,312
1934 cu.ft.	14,680,380	9,209,022	13,709,944	37,599,346
1935 cu.ft.	16,733,379	10,295,232	12,894,072	
	10,100,013	10,230,202	12,034,012	39,922,683
CARBON DIOXIDE (x) -		CONTRACTOR OF		
1928 lb.	1,277,440	2,677,526	1,578,309	5,533,275
1929 1b.	1,453,180	3,687,948	1,677,672	6,818,800
1930 lb.	1,385,398	3,588,703	1,658,443	6,632,544
1931 1b.	1,538,928	2,668,100	1,230,436	5,437,464
1932 1b.	1,636,732	3,111,813	1,308,766	6,057,311
1933 1b.	1,564,607	2,819,946	1,026,440	5,410,993
1934 1b.	1,257,070	2,367,643	1,089,284	4,713,997
1935 1b.	1,414,171	2,221,970	1,213,545	4,849,687
		2,22,010	1,610,040	4,040,001
OXYGEN -	B R RISK STORY	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
1928 cu.ft.	54,430,578	41,971,320	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
1932 cu.ft.	32,280,715	28,865,340	31,682,660	92,828,715
1933 cu.ft.	34,991,667	27,093,759	31,426,147	93,511,573
1934 cu.ft.	42,361,291	33,187,429	38,391,795	113,940,515
1935 cu.ft.	54,375,346	37,926,890	43,757,470	136,059,706
THE REPORT OF THE PERSON	Die year oak al	AVIOLET CO.		

(x) Not including solid carbon dioxide (dry ice).

Table 13 - CONSUMPTION OF CARBON DIOXIDE IN THE MANUFACTURE OF CARBONATED BEVERAGES,

		(SOFT DRINKS)	1928 - 1934.		E. INSERBA
THE RESERVE		Cost at	MARK DESIGNATION OF THE PARTY O		Cost at
Years	Quantity	works	Years	Quantity	works
		Artica San Title	Leading Lychester	SETTE ENGLISH W	\$ MARK
1928	1,718,847	177,777	1932	2,020,941	182,098
1929	3,950,733	380,699	1933	1,905,884	173,782
1930	2,408,694	241,915	1934		199,191
1931	2,396,592			cattering in	

Do

Table 14 - IMPORTS INTO CANADA OF CARBON DIOXIDE AND CHLORINE, 1933 - 1935.

	Quantity	Value
	The state of the s	\$
1933	Composition .	
Carbon dioxide or carbonic acid gas		91
Chlorine, liquid, or chlorine gaslb.	12,163,840	245,791
1934		
Carbon dioxide or carbonic acid gas	e a e	
Chlorine, liquid, or chlorine gas	10,713,725	219,985

Quantity Value

Aqua ammonia and

anhydrous ammonia.

1935

Canadian Industries Limited

Table 15 - EXPORTS FROM THE UNITED STATES TO CANADA OF COMPRESSED AND LIQUIFIED GASES, 1933 and 1934.

(From Foreign Commerce and Navigation of the United States, Calendar Years

	Tago	and 1994)			
		1 9 :	3 3	1 9 3	4
		Quantity	Value	Quantity	Value
	4-11		\$	444	\$ -
Ammonia, anhydrous	1123	108,568	12,038	31,418	3,943
Chlorine lb.		12,396,910	229,938	10,254,283	210,014
Other gases lb.	166	1,102,501	79,952	1,392,965	101,180

DIRECTORY (x) OF FIRMS INCLUDED IN THE COMPRESSED GASES INDUSTRY IN CANADA, 1935.

Names of Firms	Location of Plants	Products Made
Cheney Chemical Limited	180 Duke St., Toronto, Ont.	Pure nitrous oxide, oxygen-carbon dioxide mixtures.
L'Air Liquide Society & Canadian Liquid Air Co. Ltd.	H.O 1111 Beaver Hall Hill, Montreal, P.Q. Plants at Halifax, Montreal,	Acetylene and
Liquid Carbonic Canadian Corporation, Limited	H.O 500 Dominion Square Bldg. Montreal, P.Q. Plants at Dartmouth, Montreal(2), Toronto, St. Boniface, Edmonton and Vancouver.	Carbon dioxide in cylinders and solid carbon dioxide.
Dominion Oxygen Company, Limited	H.O Canada Life Bldg., 340 University Ave., Toronto, Ont. Plants at Montreal and Toronto.	Oxygen and nitrogen.
Prest-O-Lite Company of Canada, Limited	H.O Canada Life Bldg., 340 University Ave., Toronto, Ont. Plants at Shawinigan Falls, Merritton and St. Boniface.	Acetylene.

H.O.- P. O. Box 1260,

Plant at Toronto, Ont.

Montreal, P.Q.

1010681770

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DIRECTORY(x) OF FIRMS INCLUDED IN THE COMPRESSED GASES INDUSTRY IN CANADA, 1935. (concluded)

Location of Plants	Products Made
Eastern Ave., Toronto, Ont.	Hydrogen and oxygen
2 Mill St., Ottawa, Ont.	Acetylene.
Burlington Street, Hamilton, Ont.	Hydrogen and oxygen.
Keele St. and St. Clair Ave., Toronto, Ont.	Hydrogen.
1103 Millwood Rd., Toronto, Ont.	Carbon dioxide and acetylene.
3 Laird Drive, Leaside, Ont.	Solid carbon dioxide.
	Eastern Ave., Toronto, Ont. 2 Mill St., Ottawa, Ont. Burlington Street, Hamilton, Ont. Keele St. and St. Clair Ave., Toronto, Ont. 1103 Millwood Rd., Toronto, Ont.

⁽x) The above plants are included under the Compressed Gases Industry as they make compressed gases as their chief product. In addition to these, Canadian Industries Limited produced synthetic ammonia and liquid chlorine at Sandwich, Ontario, and liquid sulphur dioxide at Hamilton, Ontario, but, when classified according to the main products, these plants come under the Acids, Alkalies and Salts Industry which is reviewed in a separate bulletin. Synthetic ammonia (and the hydrogen and nitrogen for its manufacture) 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 North American Cyanamid Company at Niagara Falls.