Published by Authority of the Hon. James A. MacKINNON, M.P.,
Minister of Trade and Commerce

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE GYPSUM INDUSTRY IN CANADA 1943

including: 1. The Gypsum Mining Industry
2. The Gypsum Products Industry

OTTAWA
1945

Price 25 cents

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THE GYPSUM INDUSTRY, 1943

PART I - PRIMARY PRODUCTION - THE GYPSUM MINING AND QUARRYING INDUSTRY

Production (producers' sales and producers' consumption) of gypsum in Canada during 1943 totalled 446,848 short tons valued at $1,381,468 compared with 566,166 short tons worth $1,254,182 in 1942. The tonnage in both years represents various grades of crude gypsum or anhydrite shipped from quarries or mines together with the tonnage of calcined gypsum used in or shipped from quarries or "primary" plants. The quantity of crude gypsum shipped in 1943 was the lowest since 1933, reflecting largely the increasing man-power shortage, wartime restrictions in building materials, and the decrease in coastal shipping available at Nova Scotia ports.

Of the 1943 output, Nova Scotia properties contributed 255,736 tons valued at $368,639; New Brunswick 36,263 tons at $148,315; Ontario 92,448 tons at $335,637; Manitoba 37,989 tons at $380,529, and British Columbia 24,412 tons worth $148,348.

The quantity of crude gypsum mined in 1943 totalled 430,822 short tons; no adhydrite was reported as being produced during the year. Crude gypsum calcined in primary or quarry plants totalled 201,168 short tons in 1943.

In 1943 the number of firms reporting production was 6. Some of the Canadian gypsum mining companies confine their operations in the Dominion to the production and sale of crude gypsum or anhydrite while others, in addition to marketing various grades of crude gypsum, produce a calcine for sale or for consumption in their own gypsum products plants. Gypsum is exported from Canada almost entirely in the crude form.

Capital employed by Canadian gypsum mining companies totalled $5,147,424 in 1943; employees numbered 438; salaries and wages paid amounted to $617,780, and the total value of fuel, purchased electricity and process supplies used was computed at $248,043.

The following information is from a report--Gypsum in 1943--as prepared by the Bureau of Mines, Ottawa.

"Gypsum is marketed in the crude lump form; ground, as "land plaster" and "Terra alba"; or ground and calcined, as plaster of Paris or wall plaster. Each year an increasing portion of the calcined material is used in the manufacture of wallboard, gypsum blocks, insulating material, acoustic plaster, etc.

"The use of gypsum products in the building trades has made rapid progress because of their lightness, durability, fire-resisting, insulating, and acoustic properties; and tiles, wallboards, blocks, and special insulating and acoustic plasters have been developed. It is probable that the production of gypsum for domestic use will continue to decline during 1944. As most of the crude gypsum is shipped to the United States for the manufacture of gypsum products, industrial conditions in that country will continue to have an important bearing on the industry.

"The use of anhydrite for the manufacture of sulphuric acid, ammonium sulphate, cement and special plasters is increasing, and, normally, there is a good opportunity for the Canadian material in this market. Canada has extensive deposits favourably situated for commercial development, the material from which has been proved by tests carried out by the Department of Mines and Resources to be of excellent grade. Prior to 1937 the small Canadian production was exported principally for use as a fertilizer for the peanut crop, but it is possible that an industry will eventually be started in this country in which the anhydrite may be used for the manufacture of sulphur or sulphur compounds and of special plasters, similar to those being marketed in England.

"The manufacture of gypsum boards, for which there has been a large demand in recent years, has partly compensated for the decrease in use for residential building purposes.

"Crude gypsum is a low-priced commodity, and its selling price f.o.b. quarry is dependent largely upon the quantity produced and the production facilities available. For export, contracts are generally made with the producer for the year's requirements of the purchaser and these contracts are generally made early in each year. The price of crude gypsum as quoted by the Canadian Chemistry and Process Industries remained at $2.50 to $3.50 per ton f.o.b. mine throughout 1943."

Table 1 - PRINCIPAL STATISTICS OF THE GYPSUM MINING INDUSTRY IN CANADA, 1939-1943

		Nova Scotia	New Brunswick, Ontario, Manitoba British Columbia	TOTAL CANADA
Number of firms ...	1939	7	3(a)	10
	1940	6	3(a)	9
	1941	6	2(a)	8
	1942	5	2(b)	7
	1943	4	2(b)	6
Capital employed ..	1939	$ 4,370,893	2,436,014	6,806,907
	1940	$ 2,406,561	2,242,101	4,648,662
	1941	$ 2,812,465	2,363,356	5,175,821
	1942	$ 1,913,131	2,473,400	4,386,531
	1943	$ 2,508,778	2,638,646	5,147,424
Number of employees--On salary-				
	1939	29	37	66
	1940	33	24	57
	1941	34	14	48
	1942	28	27	55
	1943	19	32	51
	On Wages -			
	1939	440	208	648
	1940	389	248	637
	1941	328	272	600
	1942	201	254	455
	1943	99	288	387
Salaries and wages.	Salaries -			
	1939	$ 53,680	59,235	112,915
	1940	$ 60,374	51,048	111,422
	1941	$ 62,083	28,852	90,935
	1942	$ 53,314	53,163	106,477
	1943	$ 38,299	78,418	116,717

Table 1--PRINCIPAL STATISTICS OF THE GYPSUM MINING INDUSTRY IN CANADA, 1939-1943 (Concluded)

		Nova Scotia	New Brunswick, Ontario, Manitoba British Columbia	TOTAL CANADA
Salaries and wages.	Wages -			
	1939	$ 402,134	177,109	579,243
	1940	$ 369,090	237,154	606,244
	1941	$ 338,356	315,717	654,073
	1942	$ 231,431	319,712	551,143
	1943	$ 94,588	406,475	501,063
Fuel and electricity	Cost -			
	1939	$ 90,394	103,094	193,488
	1940	$ 76,224	118,740	194,964
	1941	$ 73,784	148,780	222,564
	1942	$ 36,831	141,851	178,682
	1943	$ 22,919	179,061	201,980
Value of process supplies used-				
	1939	$ 85,166	20,665	105,831
	1940	$ 194,005	29,370	223,375
	1941	$ 199,875	29,569	229,444
	1942	$ 34,784	30,673	65,457
	1943	$ 11,234	34,829	46,063
Selling value of products (gross)	1939	$ 1,340,830	594,297	1,935,127
	1940	$ 1,302,347	763,586	2,065,933
	1941	$ 1,517,297	731,131	2,248,428
	1942	$ 512,762	741,420	1,254,182
	1943	$ 368,639	1,012,829	1,381,468

(a) In addition, 2 companies also operate in Nova Scotia.
(b) In addition, 1 company also operates in Nova Scotia.

Table 2 - CAPITAL EMPLOYED IN THE GYPSUM INDUSTRY IN CANADA, BY PROVINCES, 1943

Capital employed as represented by:	Nova Scotia	New Brunswick, Ontario, Manitoba and British Columbia	CANADA
	$	$	$
Present cash value of the land (excluding minerals)	510,987	425,274	936,261
Present value of buildings, fixtures, machinery, tools and other equipment	788,913	540,425	1,329,338
Inventory value of materials on hand, ore in process, fuel and miscellaneous supplies on hand	93,654	94,566	188,220
Inventory value of finished products on hand..	430,807	54,750	485,557
Operating capital (cash, bills and accounts receivable, prepaid expenses, etc.)	684,417	1,523,631	2,208,048
TOTAL	2,508,778	2,638,646	5,147,424

Table 3 - FUEL AND ELECTRICITY USED IN THE GYPSUM MINING INDUSTRY, 1943, WITH TOTALS FOR 1939-1942

	Unit of measure	Nova Scotia		New Brunswick, Ontario, Manitoba, British Columbia		CANADA	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			$		$		$
Coal - Bituminous - Canadian	ton	398	3,297	8,489	61,880	8,887	65,177
Imported	ton	...	...	3,188	25,753	3,188	25,753
Lignite	ton	...	...	1,441	5,826	1,441	5,826
Coke	ton	...	...	341	4,195	341	4,195
Gasoline	Imp.gal.	37,984	9,671	89,209	27,657	127,193	37,328
Kerosene	Imp.gal.	183	37	11	4	194	41
Fuel oil and diesel oil	Imp.gal.	29,718	2,769	6,477	851	36,195	3,620
Wood	cord	...	...	103	663	103	663
Gas - Natural	M cu.ft.	...	...	6,300	2,546	6,300	2,546
Other fuel	...	...	...	...	...	...	...
Electricity purchased	K.W.H.	385,650	7,145	4,986,142	49,686	5,371,792	56,831
TOTAL 1943	...	...	22,919	...	179,061	...	201,980
TOTAL 1942	...	...	36,831	...	141,851	...	178,682
TOTAL 1941	...	...	73,784	...	148,780	...	222,564
TOTAL 1940	...	...	76,224	...	118,740	...	194,964
TOTAL 1939	...	...	90,394	...	103,094	...	193,488
Electricity generated for own use - 1939	K.W.H.	379,086	...	395,872	...	774,958	...
1940	K.W.H.	100,000	...	415,505	...	515,505	...
1941	K.W.H.	194,000	...	137,185	...	331,185	...
1942	K.W.H.	319,488	...	1,147,856	...	1,467,344	...
1943	K.W.H.	250,000	...	1,217,586	...	1,467,586	...

NOTE: 1 ton = 2,000 pounds.

Table 4 - NUMBER OF WAGE-EARNERS ON PAYROLL OR TIME RECORD ON THE LAST DAY OF EACH MONTH OR NEAREST WORK DAY, 1941-1943

Month	1941		1942		1943				
					Mine			Mill	
					Surface		Underground(x)		
	Mine	Mill	Mine	Mill	Male	Female		Male	Female
January	210	128	194	173	68	1	83	147	4
February	205	125	210	184	74	..	88	144	3
March	232	142	266	201	83	1	82	152	5
April	413	219	270	215	87	5	85	144	8
May	481	197	336	224	93	6	82	155	10
June	528	224	331	240	112	3	82	161	9
July	566	216	345	226	136	3	78	168	14
August	483	236	338	227	172	3	69	159	20
September ...	505	228	268	184	159	3	74	175	24
October	445	229	188	169	162	3	71	176	22
November	423	229	191	166	177	3	79	181	18
December	368	170	157	141	186	3	79	172	18

(x) Underground work confined to New Brunswick, Ontario and Manitoba.

Table 5 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED DURING ONE WEEK IN MONTH OF HIGHEST EMPLOYMENT, 1943 (Overtime included)

Hours	Number		Hours	Number	
	Male	Female		Male	Female
30 hours or less	55	...	55 hours	31	8
31-43 hours	39	3	56-64 hours	92	...
44 hours	26	1	65 hours or more ..	70	...
45-47 hours	12	...	TOTAL	524	23
48 hours	106	...	Total wages paid in		
49-50 hours	22	9	selected week	$ 15,721	448
51-54 hours	48	2			

Table 6 - POWER EQUIPMENT INSTALLATION, 1943

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (x)	Number of units	Total horse power (x)
Steam engines	4	1,130	5	170
Steam turbines	...	...	...	...
Diesel engines	12	1,355	7	1,134
Gasoline, gas and oil engines, other than diesel engines	13	781	30	1,545
Hydraulic turbines or water wheels	...	...	...	...
Electric motors -				
(a) Operated by purchased power..	191	6,059	17	630
TOTAL	220	9,325	59	3,479
(b) Operated by power generated by the establishment	25	551	5	245
Stationary boilers	5	750	3	90
Motor generator sets	6	365	8	558

(x) According to manufacturers' rating.

Table 7 - PRODUCTION IN CANADA, OF GYPSUM, 1942 and 1943

	1942 Quantity tons	1942 Value $	1943 Quantity tons	1943 Value $
Shipments by grades -				
Crude (a) - Lump or mine run	13,176	22,240	9,277	18,632
Crushed	402,578	523,093	276,498	403,406
Fine ground	246	1,849	719	6,070
Calcined gypsum, sold and used (b)	150,166	707,000	160,354	953,360
TOTAL	566,166	1,254,182	446,848	1,381,468
Shipments by provinces -				
Nova Scotia	394,216	512,762	255,736	368,639
New Brunswick	36,623	111,316	36,263	148,315
Ontario	82,796	304,170	92,448	335,637
Manitoba	29,218	179,780	37,989	380,529
British Columbia	23,313	146,154	24,412	148,348
TOTAL	566,166	1,254,182	446,848	1,381,468
Total gypsum mined and quarried (a).	797,126	...	430,822	...
Total gypsum calcined (b)	183,296	...	201,168	...

(a) Includes some anhydrite quarried in Nova Scotia in 1942.
(b) Does not include gypsum calcined in manufacturing plants located in Montreal and Calgary, but includes calcine used in manufacturing plants operated in direct conjunction with the mines--the value of calcine used is its value as a process material.

Table 8 - PRODUCTION (SALES) OF CRUDE AND CALCINED GYPSUM IN CANADA, 1914-1943

Year	Tons	Value $	Year	Tons	Value $
1914	516,880	1,156,207	1929	1,211,689	3,345,696
1915	474,815	854,929	1930	1,070,968	2,818,788
1916	342,915	738,593	1931	863,752	2,111,517
1917	336,332	881,984	1932	438,629	1,080,379
1918	152,287	823,006	1933	382,736	675,822
1919	299,063	1,215,287	1934	461,237	863,776
1920	429,144	1,893,991	1935	541,864	932,203
1921	386,550	1,785,538	1936	833,822	1,278,971
1922	559,265	2,160,898	1937	1,047,187	1,540,483
1923	578,301	2,243,100	1938	1,008,799	1,502,265
1924	646,016	2,208,108	1939	1,421,934	1,935,127
1925	740,323	2,389,891	1940	1,448,788	2,065,933
1926	883,728	2,770,813	1941	1,593,406	2,248,428
1927	1,063,117	3,251,015	1942	566,166	1,254,182
1928	1,246,368	3,743,648	1943	446,848	1,381,468

Table 9 - CONSUMPTION OF GYPSUM IN CANADIAN CEMENT INDUSTRY, 1932-1943

Year	Tons	Year	Tons
1932	27,538	1938	51,975
1933	13,319	1939	31,492
1934	19,172	1940	38,903
1935	21,611	1941	49,031
1936	25,447	1942	49,816
1937	33,691	1943	47,034

Table 10 - PRODUCTION(x) OF CRUDE AND CALCINED GYPSUM IN CANADA, BY MONTHS, 1943

Month	Tons	Month	Tons
January	28,131	July	36,759
February	24,110	August	50,623
March	35,429	September	51,825
April	25,063	October	61,143
May	22,839	November	46,666
June	23,314	December	40,946

(x) Crude shipped plus calcined used and sold.

Table 11 - IMPORTS AND EXPORTS OF GYPSUM, 1942 and 1943(x)

	1942		1943	
	Quantity	Value	Quantity	Value
	Tons	$	Tons	$
Imports -				
Gypsum, crude (sulphate of lime)..	...	...	5,000	12,490
Gypsum, ground, not calcined	717	22,692	490	16,828
Plaster of Paris and wall plaster.	1,404	49,120	1,202	47,532
Total	...	71,812	...	76,850
Exports -				
Gypsum or plaster, crude	489,842	544,094	185,210	213,022
Plaster of Paris, wall plaster ...	213	4,902	478	8,844
Gypsum, ground	25	260	...	...
Total	...	549,256	...	221,866

(x) Subject to revision.

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY, 1943

Name of Firm	Head Office Address	Plant Location
Nova Scotia -		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ont.	Wentworth
Conn. Adamant Plaster Co.	10 River St., New Haven, Conn.	Cheverie
Gypsum, Lime & Alabastine, Canada, Ltd. (x)	Paris, Ont.	Baddeck Bay
National Gypsum (Canada) Ltd.	325 Delaware Ave., Buffalo, N.Y.	Walton, Dingwall, Cheticamp
Victoria Gypsum Co. Ltd. (x)	Little Narrows	Little Narrows
Windsor Plaster Co. Ltd.	Windsor	Brooklyn, Hants Co.
New Brunswick -		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto, Ont.	Hillsborough
Ontario -		
Canadian Gypsum Co. Ltd.	170 Bloor St. W., Toronto	Hagersville
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris	Caledonia

LIST OF FIRMS IN THE GYPSUM MINING INDUSTRY, 1943
(Concluded)

Name of Firm	Head Office Address	Plant Location
Manitoba -		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ont.	Gypsumville
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg	Amaranth
British Columbia -		
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris, Ont.	Falkland

PART II - SECONDARY PRODUCTION - THE GYPSUM PRODUCTS INDUSTRY, 1943

Nine Canadian factories, operated by 4 companies, manufactured gypsum products having a factory selling value of $5,417,045 during 1943. This output was 12 per cent over the 1942 total of $4,829,962. The main products were gypsum wallboard, gypsum hardwall plaster, gypsum tile and gypsum blocks.

Capital employed in these 9 manufacturing plants amounted to $4,092,304 in 1943, including $1,482,430 as the value of buildings and equipment, $536,959 as the value of inventories at the year-end, and $2,072,915 as cash, bills receivable, etc. The average number of employees in 1943 was 436, to whom $632,212 were paid in salaries and wages. Expenditures for fuel and electricity amounted to $307,748 while materials used in manufacturing processes cost $2,707,124.

Table 12 PRINCIPAL STATISTICS OF THE GYPSUM PRODUCTS INDUSTRY, 1942 and 1943

		1942	1943
Number of establishments		9	9
Capital employed	$	3,414,258	4,092,304
Number of employees		412	436
Salaries and wages	$	554,665	632,212
Cost of fuel and electricity	$	217,007	307,748
Cost of materials at works	$	2,251,434	2,707,124
Selling value of products at works	$	4,829,962	5,417,045

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 13 - EMPLOYEES, SALARIES AND WAGES, 1942 and 1943

			1942	1943
Employees - On salaries	Male	No.	45	39
	Female ...	No.	5	12
On wages	Male	No.	360	376
	Female ...	No.	2	9
Total Employees		No.	412	436
Salaries		$	94,036	97,405
Wages		$	460,629	534,807
TOTAL SALARIES AND WAGES		$	554,665	632,212

Table 14 - WAGE-EARNERS, BY MONTHS, 1942 and 1943

Month	1942 Male	1942 Female	1942 TOTAL	1943 Male	1943 Female	1943 TOTAL
January	341	...	341	381	4	385
February	363	...	363	393	4	397
March	345	...	345	395	4	399
April	325	...	325	397	10	407
May	342	...	342	384	12	396
June	354	...	354	377	9	386
July	379	...	379	359	11	370
August	398	...	398	363	10	373
September	363	6	369	354	13	367
October	351	8	359	371	12	383
November	366	7	373	368	11	379
December	386	6	392	361	11	372
AVERAGE	360	2	362	376	9	385

Table 15 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1942 and 1943 (In one week of month of highest employment; overtime included)

	Number of Wage-Earners					
	1942 Male	1942 Female	1942 TOTAL	1943 Male	1943 Female	1943 TOTAL
30 hours or less	19	...	19	34	...	34
31-43 hours	26	...	26	28	...	28
44 hours	26	...	26	27	1	28
45-47 hours	32	...	32	13	...	13
48 hours	14	...	14	59	...	59
49-50 hours	28	1	29	19	1	20
51-54 hours	28	1	29	41	6	47
55 hours	9	...	9	18	...	18
56-64 hours	107	...	107	72	1	73
65 hours or over	108	5	113	98	5	103
TOTAL	397	7	408	409	14	423
Total wages paid in selected week ..... $	11,250	222	11,472	11,345	389	11,734

Table 16 - FUEL AND ELECTRICITY USED, 1942 and 1943

Kind	Unit of measure	1942 Quantity	1942 Cost at works	1943 Quantity	1943 Cost at works
			$		$
Coal - Bituminous--Canadian	ton	322	3,013	5,799	52,492
Imported	ton	6,048	41,582	11,030	94,920
Lignite	ton	7,309	28,796	4,323	17,479
Coke	ton	501	6,089	616	7,553
Gasoline	Imp.gal.	8,728	2,717	6,062	1,932
Fuel oil	Imp.gal.	1,371,929	83,354	1,252,688	75,314
Wood	cord	381	3,009	641	4,141
Gas - Natural	M cu.ft.	6,009	1,476	5,484	1,474
Electricity purchased	K.W.H.	7,013,450	46,971	7,838,319	52,443
TOTAL	...	...	217,007	...	307,748
Electricity generated for own use	K.W.H.	688,729	...	593,872	...

Table 17 - POWER EQUIPMENT, 1942 and 1943

	Ordinarily in Use: Number of units	Ordinarily in Use: Total rated horse power	In Reserve or Idle: Number of units	In Reserve or Idle: Total rated horse power
1942				
Steam engines	...	...	4	155
Diesel engines	2	60	...	...
Gasoline, gas and oil engines ...	1	40	...	...
Electric motors run by purchased power	256	4,037	40	608
TOTAL	259	4,137	44	763
Electric motors run by power generated by above primary units	27	230	1	10
Stationary boilers	6	622	3	230
Motor generator sets	1	3	...	...
1943				
Steam engines	...	...	2	40
Steam turbines	1	15	...	...
Gasoline, gas and oil engines ...	1	40	...	...
Electric motors run by purchased power	260	4,491	16	173
TOTAL	262	4,546	18	213
Electric motors run by power generated by above primary units	31	241	1	10
Stationary boilers	8	1,372	1	35
Motor generator sets	1	3	...	...

Table 18 - MATERIALS USED IN THE GYPSUM PRODUCTS INDUSTRY, 1942 and 1943

Material	Unit of measure	1942 Quantity	1942 Cost at works	1943 Quantity	1943 Cost at works
			$		$
Gypsum, crude	ton	20,742	78,460	17,489	86,774
Gypsum, calcined (plaster of Paris)	ton	149,885	705,541	162,273	972,550
Paper	ton	14,240	868,457	16,104	1,032,802
Starch or paste	ton	499	31,488	605	40,669
Hair	ton	75	18,036	52	13,274
Retarder	ton	203	18,045	171	15,099
Sawdust and shavings	ton	165	2,259	162	2,269
Containers, etc.	...	...	108,587	...	77,303
All other materials	...	...	420,561	...	463,814
TOTAL	...	...	2,251,434	...	2,707,124

Table 19 - OUTPUT OF THE GYPSUM PRODUCTS INDUSTRY, 1942 and 1943

Product	Unit of measure	1942 Quantity	1942 Selling value at works	1943 Quantity	1943 Selling value at works
			$		$
Gypsum wallboard	sq.ft.	164,410,695	3,849,253	192,185,195	4,317,946
Gypsum hard wall plasters	ton	51,475	682,528	39,883	501,104
All other products (x) ..	...	...	298,181	...	597,995
TOTAL	...	...	4,829,962	...	5,417,045

(x) Includes gypsum tile and blocks, etc.

LIST OF FIRMS IN THE GYPSUM PRODUCTS INDUSTRY, 1943

Name of Firm	Head Office Address	Plant Location
Windsor Plaster Co. Ltd.	Windsor, N.S.	Windsor, N.S.
Canadian Gypsum Co. Ltd.	1221 Bay St., Toronto, Ont.	Hillsborough, N.B. Hagersville, Ont.
Gypsum, Lime and Alabastine, Canada, Limited	Paris, Ont.	Montreal, Que. Caledonia, Ont. Winnipeg, Man. Calgary, Alta. New Westminster, B.C.
Western Gypsum Products Ltd.	503 McArthur Bldg., Winnipeg, Man.	Winnipeg, Man.

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