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SALT - 1946

Producers' sales of common salt or natural sodium chloride in Canada during 1946 totalled 537,985 short tons valued at \$3,626,165 compared with 673,076 short tons valued at \$4,054,720 in 1945. The decrease in tonnage was 20 per cent and the total value decrease was 10.6 per cent. Four provinces, Nova Scotia, Ontario, Manitoba and Alberta accounted for the total output, of which Ontario produced 82 per cent.

The Nova Scotian output is recovered by mining the underground rock salt deposits. In the other provinces brine wells furnish the supply.

Producers consumed 247,911 tons or 46 per cent in the manufacture of caustic soda and other chemicals. The sales of salt included 92,632 tons of table and dairy grades; 144,928 tons of common fine and 49,305 tons of common coarse. The balance of the shipments included salt for agriculture and for highway maintenance.

Nine plants were in operation in 1946. There were 713 employees, 620 males and 93 females, to whom \$918,566 was paid in salaries and wages. Process supplies cost \$138,630 and fuel and electricity cost \$597,112.

Canada exported in 1946 a total of 5,864 tons valued at \$116,483; during the same period 228,298 tons of salt valued at \$1,367,445 were imported; the apparent consumption was 760,419 short tons valued at \$4,877,127.

Caustic soda, chlorine and other chemicals are manufactured by Canadian Industries Limited at Windsor, Ontario, from brine obtained from the company's wells located at that point. This company also operates similar plants at Cornwall, Ontario, and Shawinigan Falls, Quebec, using dry salt brought from south western Ontario deposits.

The Brunner, Mond Canada, Limited, located at Amherstburg, Ontario, manufactures soda ash from natural brine; calcium chloride is recovered as a by-product by this company.

Table 1 - PRINCIPAL STATISTICS FOR THE SALT INDUSTRY IN CANADA, 1937-1946

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies and containers	Gross value of products sold during year, including containers (f.o.b. works)
	No.	No.	\$	\$	\$	\$
1937 ....	9	543	653,136	183,117	610,498	2,334,016
1938 ....	9	562	786,720	278,711	607,175	2,489,719
1939 ....	9	547	741,736	276,267	508,511	2,957,982
1940 ....	9	586	836,506	321,589	539,179	3,322,250
1941 ....	9	668	1,018,652	450,291	725,675	3,852,499
1942 ....	9	675	1,114,574	536,649	882,599	4,593,003
1943 ....	9	682	1,223,009	596,252	943,522	5,168,628
1944 ....	9	710	1,302,143	652,126	846,298	4,786,084
1945 ....	9	724	1,260,769	670,187	953,054	4,864,697
1946 ....	9	713	918,566	597,112	993,304	4,480,839

NOTE: Six plants in Ontario and 1 in each of Nova Scotia, Manitoba and Alberta.

This report was prepared by A. R. Deir, Mining Statistician.

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Table 2 - PRODUCTION OF SALT IN CANADA, BY GRADES, 1945 and 1946

	1945			1946		
	Manu- factured	Sold	Value of salt sold (not including containers)	Manu- factured	Sold	Value of salt sold (not including containers)
	Tons	Tons	\$	Tons	Tons	\$
Table, dairy and pressed blocks	100,352	99,679	1,886,955	91,877	92,638	1,729,810
Common, fine .....	169,329	170,493	1,153,289	143,965	144,928	996,990
Common, coarse .....	48,430	50,889	412,762	50,061	49,305	461,443
Evaporated .....	...	...	...	350	340	4,411
Lord salt .....	141	131	1,120	180	195	1,533
Other grades .....	3,502	3,396	51,358	2,366	2,668	37,941
Brine for chemical works (salt equivalent sold or used) .....	348,743	348,488	549,236	247,788	247,911	394,037
Total of Above .....	670,497	673,076	4,054,720	536,587	537,985	3,626,165
Value of containers .....	...	...	809,977	...	...	854,674
GROSS VALUE .....	...	...	4,864,697	...	...	4,480,839

Table 3 - PRODUCTION OF SALT IN CANADA, BY PROVINCES, 1937-1946

Year	Nova Scotia		Ontario		Manitoba		Alberta	
	Tons	\$	Tons	\$	Tons	\$	Tons	\$
1937 .....	47,865	216,401	407,701	1,539,599	3,391	43,465	...	...
1938 .....	44,950	194,759	388,130	1,657,140	2,920	34,979	4,045	46,035
1939 .....	47,885	213,029	370,843	2,200,189	2,453	35,888	3,319	37,526
1940 .....	42,495	220,328	412,401	2,371,780	3,076	45,731	6,742	185,430
1941 .....	54,007	307,637	477,170	2,512,166	13,051	115,367	16,617	260,995
1942 .....	50,199	317,798	558,407	2,793,328	22,706	397,101	22,360	335,960
1943 .....	47,775	245,157	594,889	3,356,870	27,523	497,227	17,499	280,124
1944 .....	38,809	281,482	603,806	2,906,117	27,267	488,776	25,335	397,646
1945 .....	37,825	254,138	578,697	2,920,973	27,133	449,561	29,421	430,048
1946 .....	38,371	329,579	441,679	2,408,279	26,166	446,472	31,769	441,835

Note: Production = producers' sales.

Table 4 - TOTAL PRODUCTION OF SALT IN CANADA, 1930-1946

Year	Tons	\$	Year	Tons	\$
1930 .....	271,695	1,694,631	1939 .....	424,500	2,486,632
1931 .....	259,047	1,904,149	1940 .....	464,714	2,823,269
1932 .....	263,543	1,947,551	1941 .....	560,845	3,196,165
1933 .....	280,115	1,939,874	1942 .....	653,672	3,844,187
1934 .....	321,753	1,954,953	1943 .....	687,686	4,379,378
1935 .....	360,343	1,880,978	1944 .....	695,217	4,074,021
1936 .....	391,316	1,773,144	1945 .....	673,076	4,054,720
1937 .....	458,957	1,799,465	1946 .....	537,985	3,626,165
1938 .....	440,045	1,912,913			

Table 5 - SALT PRODUCED FOR CHEMICAL PURPOSES (x) 1930-1946

Year	Quantity tons (2000 lb.)	Per cent of total salt output	Year	Quantity tons (2000 lb.)	Per cent of total salt output
1930 .....	114,737	42	1939 .....	187,958	44
1931 .....	97,958	38	1940 .....	224,009	48
1932 .....	96,242	37	1941 .....	258,711	46
1933 .....	104,740	37	1942 .....	327,548	50
1934 .....	124,132	39	1943 .....	346,145	50
1935 .....	145,433	40	1944 .....	370,199	53
1936 .....	165,882	42	1945 .....	348,488	52
1937 .....	205,149	45	1946 .....	247,911	46
1938 .....	170,938	39			

(x) Used in the manufacture of chemicals by producers of salt.

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Table 6 - PRODUCTION IN CANADA, IMPORTS, EXPORTS AND CONSUMPTION OF SALT, 1945 and 1946

	1 9 4 5		1 9 4 6	
	Tons	Value \$	Tons	Value \$
Production .....	673,076	4,054,720	537,985	3,626,165
Imports -				
Table salt .....	...	...	1,528	61,570
Salt, for the use of the sea or gulf fisheries	28,703	174,211	49,857	316,648
Salt, in bulk, n.o.p. ....	88,822	443,192	136,092	627,932
Salt, n.o.p., in bags, barrels, etc. ....	19,641	187,599	40,821	361,295
Total .....	137,166	805,002	228,298	1,367,445
Exports .....	5,313	105,494	5,864	116,483
APPARENT CONSUMPTION .....	804,929	4,754,228	760,419	4,877,127

Table 7 - FUEL AND ELECTRICITY USED IN THE SALT INDUSTRY IN CANADA, 1945 and 1946

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian .....	short ton	11,525	81,912	13,467	101,160
Imported .....	short ton	71,128	475,910	50,789	363,806
Lignite coal .....	short ton	22,470	85,544	23,400	91,557
Coke (for fuel only) .....	short ton	...	...	1,449	7,608
Gasoline .....	Imp.gal.	10,235	3,074	7,290	1,872
Kerosene .....	Imp.gal.	170	31	42	12
Fuel oil .....	Imp.gal.	18,574	1,914	37,160	3,727
Gas, natural .....	M cu. ft.	81	53	87	63
Electricity purchased .....	K.W.H.	3,721,741	21,749	3,791,722	27,307
TOTAL .....	...	...	670,187	...	597,112
Electricity generated for own use	K.W.H.	3,315,621	...	6,318,388	...

Table 8 - POWER EQUIPMENT (including stand-by or emergency equipment) 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power(x)	Number of units	Total horse power(x)
<u>1 9 4 5</u>				
Steam engines .....	16	1,385	...	...
Steam turbines .....	14	1,840	...	...
Gasoline, gas and oil engines (except Diesels)	2	22	...	...
Electric motors run by purchased power .....	174	1,091	10	73
Total .....	206	4,338	10	73
Electric motors run by power generated by above primary units .....	306	2,758	16	176
Stationary boilers .....	8	3,970	5	835
Motor-generator sets .....	2	18	...	...
<u>1 9 4 6</u>				
Steam engines .....	14	1,375	...	...
Steam turbines .....	15	1,945	...	...
Gasoline, gas and oil engines (except Diesels)	...	...	...	...
Electric motors run by purchased power .....	172	1,042	6	58
Total .....	201	4,362	6	58
Electric motors run by power generated by above primary units .....	282	2,659	18	236
Stationary boilers .....	8	3,920	5	785
Motor-generator sets .....	3	1,343	...	...

(x) According to manufacturers' rating.





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Table 9 - EMPLOYEES, SALARIES AND WAGES IN THE SALT INDUSTRY IN CANADA, 1940-1946

Year	Number of Employees				Total employees	Salaries \$	Wages \$	Total salaries and wages \$
	On Salaries		On Wages					
	Male	Female	Male	Female				
1940 ...	80	40	436	30	586	299,521	536,985	836,506
1941 ...	106	42	490	30	668	361,661	656,991	1,018,652
1942 ...	86	48	509	32	675	337,050	777,524	1,114,574
1943 ...	82	53	495	52	682	366,555	856,454	1,223,009
1944 ...	87	59	504	60	710	397,113	905,030	1,302,143
1945 ...	93	54	517	60	724	367,132	893,637	1,260,769
	<u>Administration</u>		<u>Workmen</u>			<u>Earnings</u>		
						<u>Administration</u>	<u>Workmen</u>	
1946 ...	43	26	577	67	726	207,532	711,034	918,566