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SALT MINES

1963

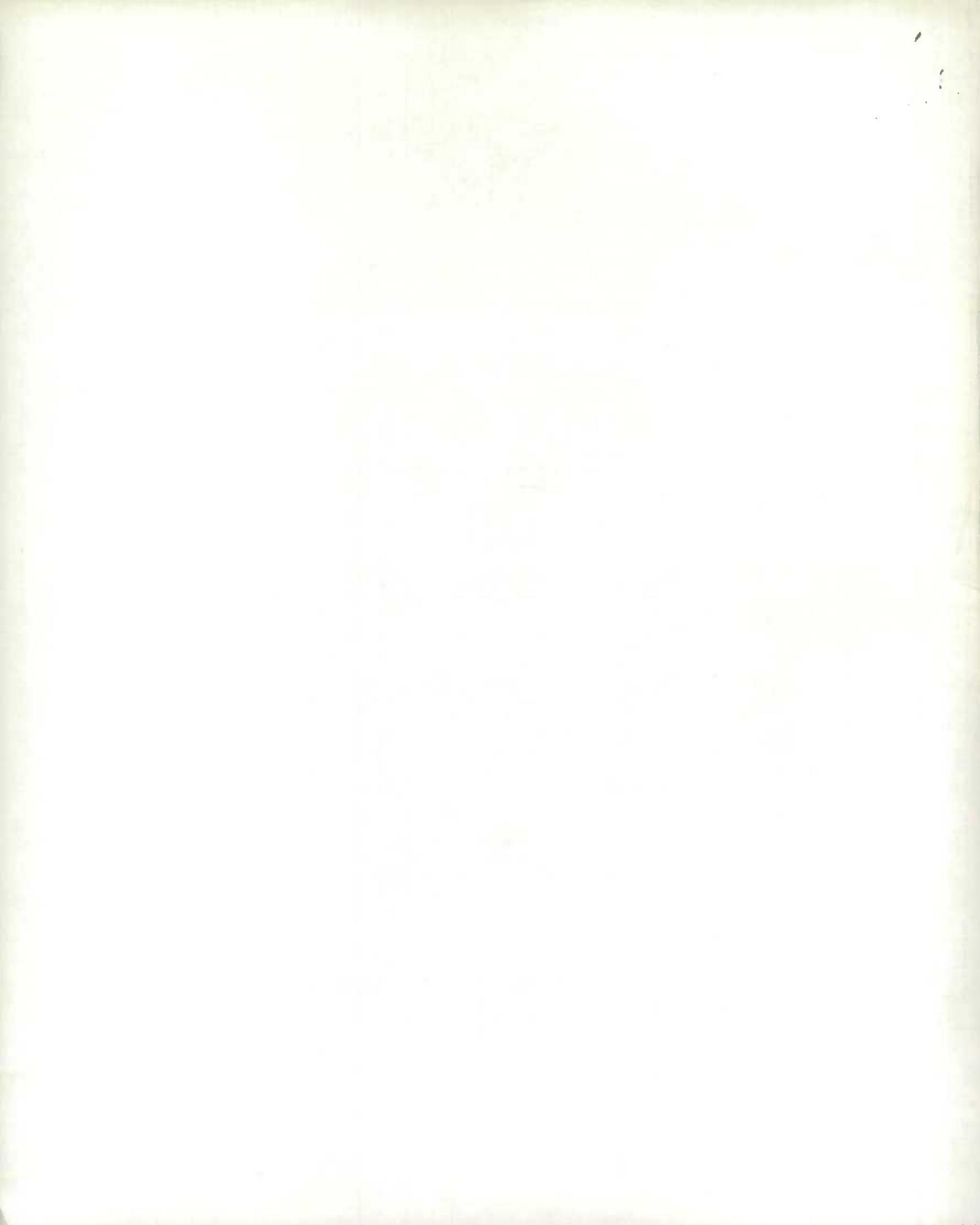
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EXPLANATORY NOTES

Establishment

The reporting unit in the Census of Manufactures is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was

affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A manufacturing establishment is typically a factory, mill or plant principally engaged in manufacturing operations. Prior to 1961, the Census of Manufactures attempted to cover the manufacturing activities of all establishments, whether or not they were principally engaged in manufacturing operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in manufacturing are no longer included as manufacturing establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in manufacturing establishments, many non-manufacturing establishments are now surveyed for commodity shipments only and the latter are included in those tables of industry reports showing shipments of certain commodities "from all industries".

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

SALT MINES

1963

This report includes statistics for industry 077—Salt Mines of Standard Industrial Classification Manual (Catalogue No. 12-501).

As indicated in the explanations on page 2, salt or brine is not only produced by the firms classified to this industry but also by firms classified to the chemical industry.

Shipments of common salt or sodium chloride in 1963 amounted to 3,721,994 short tons valued at \$22,316,565. In the preceding year the producers shipped 3,638,778 tons valued at \$21,927,135. These valuations do not include the value of containers which was \$2,058,581 in 1963 and \$2,211,417 in 1962. Over 38 per cent of the tonnage was reported as the salt content of brine. This brine was

pumped from the wells to chemical plants which produced caustic soda, chlorine, etc. in Canada and United States. Rock salt shipments amounted to 1,771,242 short tons.

The average number of employees in the industry was 955 to whom \$4,566,868 were paid as salaries and wages. Fuel and electricity cost \$1,199,245, included in this figure was 32,272,660 kwh. of purchased electricity which cost \$330,955. Electricity generated for own use was 11,065,720 kwh and electricity for sale was nil. Process supplies cost \$1,197,785 and the value of containers was \$2,058,581.

Exports of salt in 1963 were valued at \$3,701,356 while the imports were 332,581 tons valued at \$1,581,906.

TABLE 1A. Principal Statistics for the Salt Industry, Significant Years, 1921-59
Basis: Standard Industrial Classification in use prior to 1960

Year	Plants	Em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies and containers	Gross value of products including containers (f.o.b. works) ¹	Net value of production ²
number		dollars					
1921	13	508	411,832	527,013	661,631	2,335,316	1,146,672
1929	8	424	516,453	249,664	543,022	2,121,108	1,328,422
1931	7	363	446,984	184,001	491,357	2,395,506	1,720,148
1933	9	400	473,420	191,373	591,182	2,531,056	1,748,501
1937	9	543	653,136	183,117	610,498	2,334,016	1,540,401
1939	9	547	741,736	276,267	508,511	2,957,982	2,173,204
1941	9	668	1,018,652	450,291	725,675	3,852,499	2,676,533
1944	9	710	1,302,143	652,126	846,298	4,786,084	3,287,660
1946	9	713	918,566	597,112	993,304	4,480,839	2,890,423
1949	12	698	1,565,210	699,443	1,205,317	6,621,483	4,716,723
1951	12	689	1,633,222	973,257	1,596,119	9,201,265	6,631,889
1954	13	669	1,380,647	758,120	1,944,611	9,854,135	7,151,404
1957	12	800	3,118,482	1,141,665	2,501,549	15,842,049	12,198,835
1958	13	795	3,183,245	1,069,615	2,748,081	16,957,157	13,139,461
1959	15	844	3,484,430	1,193,656	3,419,626	20,224,407	15,843,873

¹ Includes brine and dry salt used in producers' own associated plants.

² Gross value less cost of fuel, electricity, process supplies and containers.

TABLE 1 B. Principal Statistics for Salt Mines, 1959 - 63

Basis: Revised Standard Industrial Classification and New Establishment Concept.

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies and containers	Gross value of shipments including containers (f.o.b. works)	Net value added by processing
	number						dollars
1959	12	838	3,452,829	1,168,186	3,114,737	19,081,974	14,799,051
1960	11	886	3,836,864	1,089,847	2,875,704	19,649,719	15,684,168
1961	11	912	3,950,358	1,153,724	3,023,969	19,567,945	15,390,252
1962	11	907	4,271,593	1,183,167	2,988,304	22,381,543	18,210,072
1963	11	955	4,566,868	1,199,245	3,256,366	22,441,139	17,985,528

See Note Table 2 and text.

TABLE 2. Production and Shipments¹ of Salt, 1962 and 1963

	1962			1963		
	Production	Shipments		Production	Shipments	
		Quantity	Value, excluding containers		Quantity	Value, excluding containers
		tons	\$		tons	\$
Fine vacuum salt.....	467,015	463,093	9,651,016	483,573	486,940	10,166,591
Coarse grainer salt	-	-	-	-	-	-
Mined rock salt	1,867,584	1,845,393	10,391,050	1,751,436	1,771,242	10,074,331
Salt recovered in chemical operations	25,777	25,926	118,606	25,278	25,192	122,295
Total dry salt.....	2,360,376	2,334,412	20,160,672	2,260,287	2,283,374	20,363,217
Salt content of brines used and shipped	1,304,366	1,304,366	1,766,463	1,438,620	1,438,620	1,953,348
Total salt and salt content of brine	3,664,742	3,638,778	21,927,135	3,698,907	3,721,994	22,316,565
Value of containers.....	...	...	2,211,417	...	...	2,058,581
Total value, including containers.....	...	...	24,138,552	...	...	24,375,146

¹ Includes brine and dry salt used in producers' own associated plants.

Note: The totals in the above table included salt recovered by all producers including operators classified as establishments in the Salt Mines Industry as well as other operators which have been reclassified to other industries as a result of combinations in line with the new establishment concept. On this account, also, value figures in the above tables are higher than the value figures shown in Table 1 B. The latter refer only to operators classified as establishments to the Salt Mines Industry in accordance with the new S.I.C.

TABLE 3. Shipments of Salt by Producers, 1954 - 63

Year	Tons	Value	Year	Tons	Value
	\$				\$
1954	969,887	8,340,163	1959	3,289,976	18,034,522
1955	1,244,761	10,122,299	1960	3,314,920	19,355,658
1956	1,590,804	12,144,476	1961	3,246,527	19,552,006
1957	1,771,559	13,989,703	1962	3,638,778	21,927,135
1958	2,375,192	14,989,542	1963	3,721,994	22,316,565

See Note Table 2 and text.

TABLE 4. Producers' Shipments of Salt, by Provinces, 1954-63

Year	Nova Scotia		Ontario		Manitoba		Saskatchewan		Alberta	
	Tons	Value	Tons	Value	Tons	Value	Tons	Value	Tons	Value
		\$		\$		\$		\$		\$
1954	150,589	1,838,559	733,066	4,440,418	17,809	439,104	37,227	899,849	31,196	722,183
1955	144,862	1,808,302	998,789	5,845,340	18,954	477,614	40,748	976,298	41,408	1,014,745
1956	132,539	1,652,839	1,347,729	7,932,294	21,068	513,373	42,814	882,988	46,654	1,162,982
1957	122,763	1,900,538	1,538,805	9,478,587	19,372	503,031	43,684	1,069,201	46,935	1,038,346
1958	125,872	2,026,551	2,126,483	10,204,472	20,560	617,150	46,511	1,157,729	55,766	983,640
1959	120,225	1,897,708	3,036,230	13,228,977	23,547	625,831	48,776	1,189,675	61,198	1,092,331
1960	163,901	2,256,423	3,007,599	13,994,545	21,925	561,161	49,064	1,337,096	72,431	1,206,433
1961	225,875	2,659,119	2,861,705	13,586,373	23,103	629,129	51,964	1,322,311	83,880	1,355,074
1962	312,519	3,112,753	3,155,589	15,387,911	25,010	634,538	54,931	1,337,471	90,729	1,454,462
1963	356,902	4,043,804	3,187,491	14,793,161	24,883	618,533	56,301	1,364,490	96,417	1,496,577

See Note Table 2, page N-6.

TABLE 5. Producers' Shipments of Salt, by Months, 1961-63

Month	1961	1962	1963	Month	1961	1962	1963
				tons			
January	274,240	384,676	345,020	August	263,580	300,864	359,989
February	242,793	380,942	321,064	September	268,227	306,826	321,404
March	240,714	252,644	248,824	October	351,224	334,180	334,752
April	200,578	221,841	198,268	November	396,057	344,011	361,283
May	226,225	207,355	280,231	December	328,285	349,025	399,900
June	214,095	281,599	263,528	Totals	3,246,527	3,638,778	3,721,994
July	240,509	274,815	287,731				

See Note Table 2, page N-6.

TABLE 6. Production, Imports and Exports of Salt, 1961-63

	1961		1962		1963	
	Tons	Value	Tons	Value	Tons	Value
Producers' shipments	3,246,527	\$ 19,552,006	3,638,778	\$ 21,927,135	3,721,994	\$ 22,316,565
Imports:						
Table salt	1,373	122,105	1,188	97,765	1	1
Salt for the use of fisheries	60,515	255,544	47,672	180,969	66,835	304,254
Salt, in bulk, n.o.p.	126,485	436,664	185,961	608,072	254,598	1,011,493
Salt, in bags, barrels, etc., n.o.p.	10,992	228,908	11,015	223,824	11,148	266,159
Totals imports	199,365	1,043,221	245,836	1,110,630	332,581	1,581,906
Exports .....	...	2,829,138	...	3,987,668	...	3,701,356

¹ Table Salt now included with Salt in bulk.

See Note Table 2, page N-6.

TABLE 7. Consumption of Salt in Specified Canadian Industries, 1961 and 1962

Industry	1961		1962	
	Quantity used	Cost at work	Quantity used	Cost at work
	lbs.	\$	lbs.	\$
Artificial abrasives	126,000	820	..	..
Slaughtering and meat packing	121,070,225	1,150,820	112,485,765	1,064,915
Sausage and sausage casings	3,517,895	43,069	4,572,305	70,599
Fish processing .....	..	..	..	..
Foods, breakfast	2,290,000	29,375	2,364,000	29,777
Biscuits	2,343,890	38,463	2,646,226	44,951
Bread and bakery products	24,321,421	397,516	24,134,678	400,260
Macaroni, vermicelli, etc.	91,800	1,676	36,339	1,811
Miscellaneous food preparations .....	..	..	36,240,038	424,393
Butter and cheese .....	..	..	11,963,232	248,734
Cheese, process .....	..	..	1,093,060	15,774
Ice Cream .....	..	..	64,609	971
Starch and glucose	1,513,140	16,509	..	..
Fruit and vegetable preparations	28,572,680	361,458	31,022,854	369,759
Breweries	1,543,809	26,640	1,050,025	17,515
Malt and malt products	20,964	614	..	..
Feed mills ² .....	..	..	..	..
Leather tanneries	15,163,059	156,694	16,121,945	167,241
Soaps and cleaning preparations	4,947,547	42,728	4,633,149	40,717
Dyeing and finishing of textiles	1,428,903	20,879	2,149,684	25,409
Artificial ice	118,536	1,836	..	..
Pulp and paper mills	96,988,000	563,082	103,896,000	569,108
Confectionery, cocoa, etc.	670,396	11,654	615,313	12,145
Miscellaneous chemicals	1,482,359	21,235	..	..
Manufacturers of industrial chemicals	758,978,000	3,091,086	707,726,000	3,331,897

¹ Combined under "Miscellaneous food preparations".² Stock and poultry, foods prepared and feed mills are now combined as "Feed mills" industry.

TABLE 8. World Production of Salt, by Countries, 1959-63

Country ^{1,2}	1959	1960	1961	1962	1963
thousand short tons ²					
North America:					
Canada	3,317	3,311	3,304	3,665	3,701
Costa Rica	14	14 ³	13 ³	10 ³	7
Salvador	14	15	17	20	20 ³
Guatemala	18	17	18	19	19 ³
Honduras	11 ³	11 ³	17	11	11 ³
Mexico	573	1,096	1,172	1,424	1,350 ³
Nicaragua	12	12	13	10	18
Panama	9	8	9	11	11 ³
United States (including Puerto Rico):					
Rock salt	6,160	6,466	6,439	7,726	8,345
Other salt	19,003	19,015	19,268	21,081	22,307
West Indies:					
British:					
Bahamas	233	231	230	222	283
Leeward Islands (exports)	2	..	1	1	..
Turks and Caicos Islands	35	28	33	21	19
Cuba	89	65	66 ³	77 ³	88 ³
Dominican Republic:					
Rock salt	71	73	84	55 ³	55 ³
Other salt	22	22	22	55 ³	55 ³
Haiti	11	11 ³	11 ³	11 ³	11 ³
Netherlands Antilles .....	..	..	..	..	..
Totals ³	29,594	30,395	30,717	34,364	36,245

See footnotes at end of table.

TABLE 8. World Production of Salt, by Countries, 1959-63 - Continued

Country ^{1,2}	1959	1960	1961	1962	1963
thousand short tons ¹					
South America:					
Argentina:					
Rock salt		1	2	2	
Other salt	572	628	459	543	}
Brazil	941	1,017	980	1,370	1,370 ³
Chile	39	47	51	56	53
Columbia:					
Rock salt	235	259	294	293	290
Other salt	63	75	77	43	37
Ecuador	24	33	35	35 ³	35 ³
Peru	116	117	96	104	96
Venezuela	90	65	147	160	66 ³
Totals^{1,3}	2,100	2,260	2,160	2,625	2,620
Europe:					
Austria:					
Rock salt	1	2	3	6	6
Other salt	262	335	280	313	376
Bulgaria	98	96	139	164	116
Czechoslovakia	177	185	207	201	201 ³
France:					
Rock and salt springs	2,971	3,306	3,260	3,285	3,223
Other salt	850	799	979	1,397	1,320 ³
Germany - East	1,858	1,968	2,204	2,200 ³	2,200 ³
Germany - West (marketable):					
Rock salt	4,377	4,806	4,791	5,027	5,761
Brine salt	363	374	376	381	399
Greece	108	107	131	127	94 ³
Italy:					
Rock salt and brine salt	1,412	1,744	1,744	1,904	1,900 ³
Other salt	780	1,123	1,340	1,320 ³	1,320 ³
Malta	1	1	2	2	2 ³
Netherlands	1,087	1,208	1,228	1,391	1,630
Poland:					
Rock salt	560	574	670	670	711
Other salt	1,455	1,571	1,591	1,616	1,638
Portugal	236	236	294	347	347 ³
Rumania	926	1,152	1,466	1,630	1,630 ³
Spain:					
Rock salt	616	592	677	690	
Other salt ⁴	873	941	1,086	1,118	1,760 ³
Switzerland	151	164	173	185	204
U.S.S.R. ⁵	7,200	7,400	8,300	9,400	9,650
United Kingdom:					
Rock salt	160	168	320	535	842
Other salt	5,956	6,371	6,031	6,164	6,317
Yugoslavia	150	166	177	237	184
Totals^{1,3}	32,660	35,420	37,500	40,340	41,860
Asia:					
Aden	196	143	94	86	89
Afghanistan:					
Rock salt	29	29	25	24 ³	23
Other salt	44 ³	55 ³	73	72 ³	13
Burma	123	163	138	165	177
Cambodia	55	41	60	60 ³	60 ³
Ceylon	36	62	39	51	25
China ⁶	12,200	14,200	12,100	11,000	11,600
Cyprus	6	—	2	7	7 ³
Goa	4	8	8 ³	11	11 ³
India:					
Rock salt	4	4	4	6	
Other salt	3,499	3,782	3,833	4,278	5,000
Indonesia	347	218	491	335	335 ³
Iran ⁷	88	143	160	160	160 ³
Iraq ⁸	41	40	42	42	43
Israel	37	41	49	42	42 ³
Japan	1,285	977	913	944	862
Jordan	18	13	21	21	20

See footnotes at end of table.

TABLE 8. World Production of Salt, by Countries, 1959-1963 — Concluded

Country ^{1,2}	1959	1960	1961	1962	1963
thousand short tons ³					
Asia — Concluded:					
Korea:					
North	485 ³	357	432	464	500 ³
Republic of	430	440	134	428	260
Lebanon	14	13	19	18 ³	21
Mongolia	6 ³	7	8 ³	9 ³	9 ³
Pakistan:					
Rock salt	176	203	222	223	267
Other salt	147	278	207	283	220 ³
Philippines	193	105	103	106	77
Ryukyu Islands	3	3	4	4	4 ³
Syrian Arab Republic	9	11	8	20	20 ³
Taiwan	474	499	476	656	690
Thailand (Siam)	506	369	276	165	220
Turkey:					
Rock salt	28	34	33	31	33
Other salt	503	456	262	444	406
Viet-Nam:					
North	143	129	117	159	165 ³
South	172	159	110	213	213 ³
Yemen	110	110	132	165	110 ³
Totals³	21,410	23,090	20,595	20,690	21,680
Africa:					
Algeria	144	158 ³	144	144 ³	143
Angola	76	64	74	66	76
Cape Verde Islands	22	26	26	30	30 ³
Chad, Republic of (Natron)	3	7	13	28	28
Congo, Republic of (Belgian)	1	1	1	1	1 ³
Ethiopia (including Eritrea)	155	173	166	191	281 ³
French Somaliland	—	—	—	—	—
Ghana ³	24 ³	13	20	21	—
Kenya	22	24	25	21	18
Libya	17	14	13	17	21
Malagasy Republic	19 ³	19 ³	19 ³	19 ³	19 ³
Maritius	4	4	4	4	4
Morocco	37	33	23	31	41
Mozambique	21	32	32 ³	32 ³	32 ³
Senegal, Republic of (Mauritania)	77	55	49	53	53 ³
Somali Republic ³	4	8 ³	2	2 ³	2
South Africa, Republic of	261	279	229	281	218
South-West Africa:					
Rock salt	6	4	4	4	6
Other salt	50	76	56	78	66
Sudan	60	60	58	76	41
Tanganyika	41	39	36	33	37
Tunisia	101	183	272	320	331
Unganda	10	6	8	3	3 ³
United Arab Republic (Egypt)	422	575	570	617	432
Totals^{1,3}	1,577	1,853	1,844	2,072	1,883
Oceania:					
Australia	524	519	570	600	600 ³
New Zealand	23	19	6	10	12
Totals	547	538	576	610	612³
Totals (estimated)^{1,3}	87,900	93,600	93,400	100,700	104,900

¹ In addition to the countries listed, salt is produced in Albania, Bolivia and Nigeria but figures of production are not available. Estimates are included in the total.

² This table incorporates some revisions. Data do not add to totals shown due to rounding where estimated figures are included in the detail.

³ Estimate.

⁴ Less than 500 tons.

⁵ Includes an average annual production in the Canary Islands of 16,500 short tons of sea-salt.

⁶ Year ended March 20 of year following that stated.

⁷ Year ended March 31 of year stated.

Source: The "Minerals Yearbook" published by the United States Bureau of Mines.

TABLE 9. Employees and their Earnings: Salt Mines, 1958-63
 Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Employees						Man-hours worked (all employees)	Earnings		
	Administration		Workmen		Total	Administration		Workmen	Total	
	Male	Female	Male	Female						
number										
1958	136	25	584	44	789	1,615,450	754,190	2,399,217	3,153,407	
1959	146	29	617	46	838	1,712,606	710,968	2,741,861	3,452,829	
1960	140	31	668	47	886	1,812,675	934,402	2,902,462	3,836,864	
1961	152	27	694	39	912	1,867,280	888,252	2,062,106	3,950,359	
1962	114	25	732	36	907	1,835,854	822,690	3,448,903	4,271,593	
1963	146	26	754	29	955	2,060,352	959,629	3,607,239	4,566,868	

Note: Administration employees include executives, superintendents, other working officials, and professional and clerical employees.

TABLE 10. Number of Workmen: Salt Mines, by Months, 1962 and 1963

Month	1962		1963				Total	
	Total	Surface	Under-ground	Mill				
		Male	Male	Male	Female			
number								
January	848	64	223	532	34	853		
February	818	65	182	477	28	752		
March	659	48	139	461	26	674		
April	633	55	145	453	24	677		
May	659	57	172	475	27	731		
June	721	59	150	500	32	741		
July	747	60	203	488	35	786		
August	729	58	208	485	25	776		
September	814	62	234	494	29	819		
October	862	63	237	512	30	842		
November	842	66	240	519	31	856		
December	879	65	245	517	30	857		
Averages	768	60	198	495	29	783		
Man-hours worked	1,835,854						2,060,352	

TABLE 11. Fuel and Electricity Used: Salt Mines, 1963

Kind	Quantity	1963	
		Cost at plant	\$
Bituminous coal (a) From Canadian mines	short ton		
(b) Imported	"	8,856	74,641
Sub-bituminous coal (from Alberta mines only)		19,813	191,984
Anthracite coal		—	—
Lignite coal		—	—
Coke (for fuel only)		—	—
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	25,620	7,133
Kerosene or coal oil		—	—
Fuel oil and diesel fuel	Imp. gal.	6,006,280	494,142
Wood (cords of 128 cubic feet of piled wood)		—	—
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	2,940	1,176
(b) Other manufactured gas		—	—
(c) Natural gas	M cu. ft.	799,130	99,214
Other fuel		—	—
Electricity purchased for power and lighting	kwh.	32,272,660	330,955
Electricity purchased for other purposes		—	—
Total (cost only) .....		...	1,199,245
Electricity generated (a) For own use	kwh.	11,065,720	...
(b) For sale		—	—

Operators of Salt Mines or Wells, 1963

Name of firm	Head or executive office	Location of plant
Nova Scotia:		
Canadian Rock Salt Co. Ltd.	30 Prospect Ave. Windsor, Ontario	Pugwash
Domtar Chemicals Ltd., Sifto Salt Div.	1155 Dorchester Blvd. West, Montreal, Quebec	Amherst
Ontario:		
Brunner Mond Canada, Ltd. ¹	1155 Dorchester Blvd. West, Montreal, Quebec	Amherstburg
Canadian Salt Co. Ltd.	600 Canada Cement Bldg., Montreal, Quebec	Windsor
Canadian Rock Salt Co. Ltd.	30 Prospect Ave., Windsor	Ojibway
Canadian Brine Ltd.	30 Prospect Ave., Windsor	Windsor
Dow Chemical of Canada Ltd. ¹	Box 1012, Sarnia	Sarnia
Domtar Chemicals Ltd. Sifto Salt Div.	1155 Dorchester Blvd. West, Montreal, Quebec	Sarnia and Goderich (2)
Manitoba:		
Canadian Salt Co. Ltd.	600 Canada Cement Bldg., Montreal, Quebec	Neepawa
Saskatchewan:		
Domtar Chemicals Ltd., Sifto Salt Div.	3615 C.I.B.C. Building, Montreal, Quebec	Unity
Alberta:		
Canadian Salt Co. Ltd.	600 Canada Cement Bldg., Montreal, Quebec	Lindbergh
Western Chemicals Ltd. ¹	702 Imperial Bank Bldg., Edmonton	Duvernay

¹ Not classified to industry 077—Salt Mines of Standard Industrial Classification. The principal activity of these firms is the manufacture of chemicals.

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