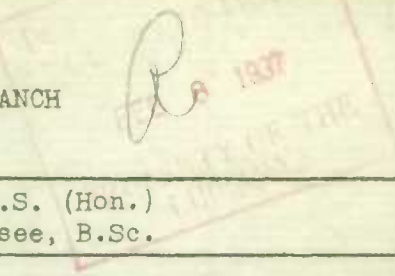


26-009

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
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.

MONTHLY REPORT

FELDSPAR AND SALT PRODUCTION IN CANADA - NOVEMBER, 1936.

FELDSPAR - Canadian producers shipped 1,820 tons of feldspar in November as compared with 2,245 tons in October and 3,165 tons in November, 1935, according to a statement just issued by the Dominion Bureau of Statistics at Ottawa. Shipments during the eleven months ending November totalled 18,918 tons; in the corresponding period of the preceding year, 16,540 tons were shipped.

Imports of ground feldspar into Canada in November rose to 84 tons at \$1,537 from the October total of 70 tons at \$1,400. During the period January to November, inclusive, Canada imported 680 tons of ground feldspar worth \$13,182.

PRODUCTION OF FELDSPAR IN CANADA

Month	1936(a)	1935	1934
	Tons	Tons	Tons
January .....	901	819	1,551
February .....	937	635	1,183
March .....	878	873	1,822
April .....	825	552	695
May .....	1,229	1,136	584
June .....	2,565	1,907	1,080
July .....	2,859	2,660	1,426
August .....	1,910	1,923	1,997
September .....	2,749	1,169	2,152
October .....	2,245	1,701	2,204
November .....	1,820	3,165	1,951
December .....		1,202	1,657
TOTAL - CALENDAR YEAR .....		17,742	18,302
TOTAL - ELEVEN MONTHS ending NOVEMBER.	18,918	16,540	16,645

{a) Subject to revision.

SALT - Shipments of commercial salt by Canadian producers in November advanced to 30,205 tons from the preceding month's total of 22,496 tons and the November, 1935, total of 26,505 tons. Canadian shipments during the first eleven months of 1936 aggregated 211,216 tons or 4.8 per cent above the tonnage shipped a year ago.

Exports of salt from Canada in November amounted to 812 tons as against 466 tons exported in the preceding month. During the eleven months ending November, 4,958 tons of salt were exported from Canada.

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
LABORATORY OF ORGANIC CHEMISTRY  
CHICAGO, ILLINOIS

RESEARCH REPORT NO. 10  
BY  
J. H. HARRIS

THE REACTION OF  
ETHYLENE GLYCOL WITH  
ACETIC ANHYDRIDE

The reaction of ethylene glycol with acetic anhydride was studied in the presence of various catalysts. The reaction was found to be catalyzed by both acids and bases. The rate of reaction was found to be first order with respect to ethylene glycol and first order with respect to acetic anhydride. The activation energy for the reaction was found to be 15.5 kcal/mole.

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Time (min)	[Ethylene Glycol] (M)	[Acetic Anhydride] (M)	[Catalyst] (M)	Rate (M/min)
0	0.100	0.100	0.000	0.000
10	0.095	0.095	0.000	0.005
20	0.090	0.090	0.000	0.010
30	0.085	0.085	0.000	0.015
40	0.080	0.080	0.000	0.020
50	0.075	0.075	0.000	0.025
60	0.070	0.070	0.000	0.030
70	0.065	0.065	0.000	0.035
80	0.060	0.060	0.000	0.040
90	0.055	0.055	0.000	0.045
100	0.050	0.050	0.000	0.050
110	0.045	0.045	0.000	0.055
120	0.040	0.040	0.000	0.060
130	0.035	0.035	0.000	0.065
140	0.030	0.030	0.000	0.070
150	0.025	0.025	0.000	0.075
160	0.020	0.020	0.000	0.080
170	0.015	0.015	0.000	0.085
180	0.010	0.010	0.000	0.090
190	0.005	0.005	0.000	0.095
200	0.000	0.000	0.000	0.100

ANAL. Calcd. for C<sub>4</sub>H<sub>8</sub>O<sub>4</sub>: C, 48.64%; H, 8.16%; O, 43.20%. Found: C, 48.5%; H, 8.2%; O, 43.3%.

REFERENCES: J. H. Harris, J. Org. Chem., 25, 1234 (1960); J. H. Harris, J. Org. Chem., 26, 1456 (1961).

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Customs' records show that 12,330 tons of salt valued at \$63,308 were imported into Canada in November as compared with 13,599 tons at \$57,596 imported in October. The November receipts were obtained from the following countries: Great Britain, 65.2 per cent; the United States, 32.6 per cent; British West Indies, 2.2 per cent, and French Africa, the remainder.

PRODUCTION OF COMMERCIAL SALT IN CANADA

Month	1936 (a)	1935	1934
	Tons	Tons	Tons
January .....	11,013	11,189	10,641
February .....	11,662	10,905	10,204
March .....	13,411	13,860	14,818
April .....	16,064	21,509	19,476
May .....	27,016	22,857	20,346
June .....	19,257	16,510	15,894
July .....	20,962	23,841	16,724
August .....	19,726	15,786	16,815
September .....	19,404	18,225	18,289
October .....	22,496	20,400	22,187
November .....	30,205	26,505	20,545
December .....		13,323	11,682
TOTAL - CALENDAR YEAR .....		214,910	197,621
TOTAL - ELEVEN MONTHS ending NOVEMBER .	211,216	201,587	185,939

(a) Subject to revision.



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Table with multiple columns and rows of data, including numerical values and possibly descriptive text. The text is very faint and difficult to read.

Year	Value	Value	Description
1980	100.0	100.0	
1981	102.5	102.5	
1982	105.0	105.0	
1983	107.5	107.5	
1984	110.0	110.0	
1985	112.5	112.5	
1986	115.0	115.0	
1987	117.5	117.5	
1988	120.0	120.0	
1989	122.5	122.5	
1990	125.0	125.0	
1991	127.5	127.5	
1992	130.0	130.0	
1993	132.5	132.5	
1994	135.0	135.0	
1995	137.5	137.5	
1996	140.0	140.0	
1997	142.5	142.5	
1998	145.0	145.0	
1999	147.5	147.5	
2000	150.0	150.0	

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