

Sodium sulphate deposits of western Canada

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ABSTRACT

Commercial deposits of sodium sulphate are harvested from alkaline lakes that are widespread throughout semi-arid southern Saskatchewan and adjacent southeastern Alberta. Concentration of sodium sulphate occurs in undrained basins under semi-arid conditions. Precipitation runoff from land adjacent to these basins leaches the mineral from the soils and carries it in solution to the basins. The process may be largely subsurface, wherein spring seeps feed basins associated with buried (proglacial) river valleys. Evaporation during summer concentrates salts in the brines, and chilling of water below saturation point during winter results in deposition of sodium sulphate (mirabilite) crystals on lake bottoms. Sodium sulphate, commercially known as salt cake, ranks second only to potash in central-western Canada's nonmetallic mineral production. It is recovered from surface brines, directly from intermittent salt beds, and, until recently, by solution mining of shallow subsurface deposits. Sodium sulphate is extracted from seven alkaline lakes and salt flats in Saskatchewan and one in Alberta. Annual production is approximately a half-million tonnes. Manufacture of kraft paper is the most significant market for salt cake, but additional quantities are used in the glass and detergent manufacturing industries.

Introduction

Sodium sulphate occurs naturally in the alkaline lakes of southern Saskatchewan and southeastern Alberta as the mineral mirabilite, $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$, commonly known as Glauber's salt. When kiln dried for commercial shipping, this hydrated sodium sulphate is converted to the mineral thenardite, Na_2SO_4 , a white, dry, free-flowing crystalline material referred to as salt cake.

Most estimates of total reserves of sodium sulphate in Saskatchewan alkali lakes range between 50 and 180 million tonnes (Bartley 1966; DeWolf 1960; Tomkins 1954). Recent evaluations (Anonymous 1967; Rueffel 1976; Watson 1980) estimate total anhydrous sodium sulphate reserves as 50 to 80 million tonnes and evaluated commercial reserves at 35 to 45 million tonnes.

During World War I, efforts expanded to locate a new source of potash, as German imports had ceased. An erroneous report of potash concentrations in southern Saskatchewan lakes led to a 1918 claim-staking rush at several alkali flats. Failure to find potassium minerals, however, resulted in lapse of the claims and loss of general interest in the area. Nevertheless, the lakes were found to contain large quantities of Epsom and Glauber's salts, the hydrated forms of magnesium and sodium sulphate. The first salts were produced from alkali lakes late in 1918 by the Canadian Salts and Potash Company of Canada, Limited at Muskiki Lake.

More than twenty companies have at one time or another exploited the deposits. At the present time, five companies are in production at nine locations (Fig. 1, Table 1).

Previous commercial production was at Muskiki Lake (1918

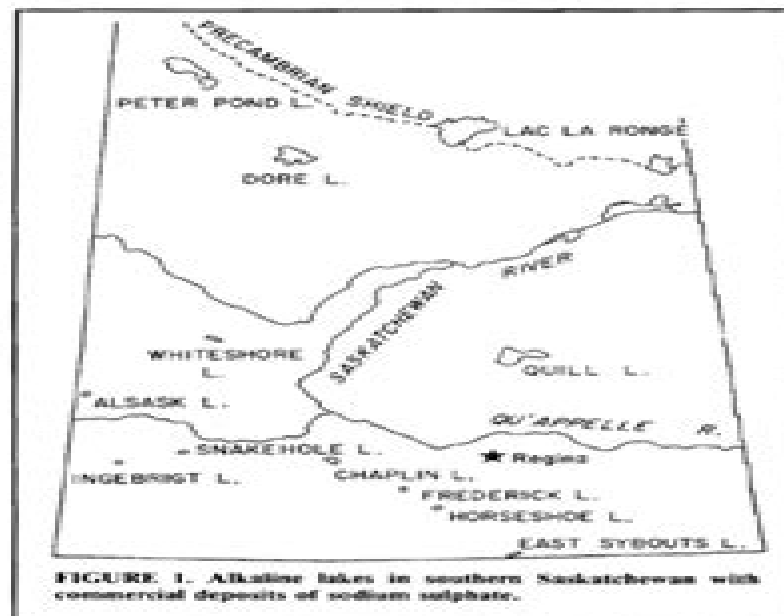


FIGURE 1. Alkaline lakes in southern Saskatchewan with commercial deposits of sodium sulphate.

to 1938), Fusilier Lake (north) (1920 to 1938), Oiban Lake (1935 to 1937), Regina Beach (south) (1933 to 1934), Ceylon Lake (1935 to 1934). The largest single potentially economic reserve occurs in the brine of Big Quill Lake. Tomkins (1954) noted that salinity of Big Quill Lake increased by natural evaporation between 1939 and 1952, but there is no certainty that concentration will eventually be sufficient to permit commercial exploitation.

The single location for Alberta production is at Motiskow Lake. The plant operated by the Alberta Sulphate Company has an annual capacity of about 80,000 tonnes.

Production at the Sybouts Lake deposit was suspended in 1980 because the plant proved inefficient and was unable to compete in present market conditions. Production may resume from the deposit if sufficient investment restructures the operation.

Origin of Salt Deposits

Natural sodium sulphate reserves occur in three forms:
1. in solution as brine.

Sodium Sulphate Of Western Canada

M Mark



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Sodium Sulphate of Western Canada Canada. Mines Branch, Lionel Heber Cole, 1926 Sodium sulphate occurrences in western Canada Canada. Mines Branch, 1926 **Saline Lakes** John M. Melack, Robert Jellison, David B. Herbst, 2002-04-30 Publications from 7th International Conference on Salt Lakes held in Death Valley National Park California USA September 1999 **The Canadian Mining and Metallurgical Bulletin** ,1928 *Canada* L. Heber Cole, 1926 *Canadian Engineer* ,1929 **Industrial Canada** ,1923 **Industrial Minerals and Extractive Industry Geology** P. W. Scott, Colin Malcolm Bristow, 2002 **Canadian Chemistry and Metallurgy** ,1924 Mineral Trade Notes ,1949 A monthly inventory of information from U S Government Foreign Service offices and other sources that may not otherwise be made available promptly *Report* ,1922 **Industrial Minerals & Rocks** Jessica Elzea Kogel, 2006 News Inc Portland OR booknews.com Bibliography of Pulp and Paper Making 1900-1928 Clarence Jay West, 1929 **Canadian Chemical Processing** ,1919 *Canadian Chemical Journal* ,1919 *Canadian Mining Journal* ,1928 **Mines Branch Monograph** Canada. Mines Branch (1950-), 1926 **Annual Report of the Mineral Production of Canada** ,1923 **Geological Survey Bulletin** ,1959 This report concerns work done on behalf of the U S Atomic Energy Commission and is published with the permission of the Commission *Information Circular* ,1935

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