

REVIEW OF DOMESTIC POTASH PRODUCTION (Continued from Page 6)

The following statistics, slightly revised from data published in the U. S. Geological Survey Press Bulletin 399, give the approximate amount of potash produced in the United States in 1918. They show a total production of 54,039 tons of potash (K2O) which is nearly double the production of 1917, and which represents more than 22 per cent of our normal consumption. About 73 per cent of the output came from natural brines, 9 per cent from kelp, 6 per cent from molasses distillery waste, 5 per cent from alunite, 3 per cent from cement mills, 2 per cent from Steffins waste water, 1 per cent from wood ashes, and 1 per cent from other sources. The value of the output in 1918 is estimated at more than \$29,000,000.

Most of the product marketed was in the form of mixed salts and fertilizer materials containing from 20 to 30 per cent of potash (K2O). About 24 per cent was in the form of muriate and about 6 per cent in the form of sulphate. The following table summarizes the production according to the product marketed:

Table: Potash Produced in the United States in 1918, Classified According to Sources. Columns include SOURCES, Number of Producers, Total Production Short tons, Available Potash Short tons, and Percentage of total.

Table: Potash Produced in the United States in 1918, Classified According to Product Marketed. Columns include Product Marketed, Total Production, Variation in Content of K2O %, Quantity Short tons, and % of total.

The production came largely from the western states. Nebraska produced 53 per cent of the total output; California 31 per cent; Utah 7 per cent and Colorado, Indiana, Iowa, Louisiana, Maine, Maryland, Massachusetts, Michigan, Missouri, New York, New Jersey, Ohio, Pennsylvania, Porto Rico, Washington and Wisconsin the other 6 per cent.

Future of American Potash Industry.—The brine of Searles Lake, California, is estimated to contain enough potash to supply the United States for about 80 years. The Nebraska lakes contain much potash but estimates of quantity are not available. Under present operating conditions about one-third of our annual equipment is recoverable from cement mills. About 380,000 short tons of potash, most of which is volatilized, is estimated to be annually charged into blast furnaces. The best available estimates indicate that about 30,000 tons of potash has formerly gone to waste in molasses of distillery slop and about 88,000 tons in the Steffins waste water. Kelp and alunite are available in quantities sufficient to continue to yield a substantial production. Enormous quantities of leucite, greensand, sericite, and feldspar, are available so that the supply of potash-rich silicate rocks is practically inexhaustible. These statements are sufficient to show that raw potash material is abundant in the United States. The future of the American potash industry, therefore, depends on the development of processes of extraction sufficiently economical to permit the domestic product to compete with potash imported in normal times.

reduced to less than \$20 a ton of K2O. The cost of production from the German potash mines in the vicinity of Strassfurt has been stated as about \$20 a ton of muriate grade (presumably the 80 per cent grade) before the war. This is equivalent to about \$40 a ton of pure K2O. Kali Syndicate, under the supervision of the German government, maintains a monopoly, fixes prices and distributes the product. Prevailing prices at New York or other eastern points in the United States for ordinary commercial grades of refined salts, such as the 80 per cent chloride (muriate) and sulphate, were about \$40 a short ton, equivalent to about \$80 a short ton of pure K2O.

Three western states, California, Nebraska and Utah, produced 94 per cent of the domestic product in 1918. Freight rates from these states to the markets along the Atlantic Coast are higher than those from Germany. They are important factors in the cost of which potash can be laid down at a rate of consumption, as for example: The freight rate on erude potash from Nebraska to eastern markets is about \$12 per ton, representing about \$50 per ton of actual potash (K2O).

The American potash producers reported that on January 1, 1919, they had in storage 60,426 tons of crude potash, held because of the dull market prevailing during the latter part of 1918. These figures represent a minimum, as some of the producers did not give quantity but stated that they had produced considerable in excess of sales. Most of the potash now held in storage

was produced when the price was high, when quantity production was the main object, and when competition with foreign potash was not considered. The price now offered for that material is apparently below the actual cost at which many firms produced it, and consequently there is a crisis in the domestic potash industry. Many producing plants are already shut down and others are marking time.

And yet we women are asked what we know about the League of Nations; asked what we can understand about the League of Nations. Oh men! the horrible deaths; the horrible lives of thousands upon thousands of women today in all these nations, who must live, and who must look in the faces of children unwelcomed, undesired—of little children—and know that these are the result of war.

women who went to work back of the trenches in France. They tell us nothing of the thousands upon thousands upon thousands of women who not only toiled and worked and slaved in order that the war might be successful, but we do not hear of the thousands of women, not alone in Armenia, not alone in Montenegro, not alone in Serbia, but in Flanders, in Belgium, in Rumania, in Russia—the thousands of women who lie in graves today, murdered, so horribly murdered that men dare not speak of it.

WOMEN DEMAND WARS SHALL END

Peace League Means More to Them Than It Can Mean to Men.

DR. SHAW'S STIRRING PLEA.

(By the Late Dr. Anna Howard Shaw.)

Seven million one hundred thousand men who had laid down their lives in the great war. Think of it! Seven million, one hundred thousand young men had died on the field of battle! What does that mean to the women of the world? It means that seven million one hundred thousand women walked day by day with their faces toward an open grave that they might give life to a son. It means that seven million one hundred thousand little children lay in the arms of a mother whose love had made them face even the terrors of death that they might become the mothers of men.

It means that year after year these women had put up their lives into the lives of their sons until they had reared them to be men. For what? In the hope that these sons of theirs could give to the world the things for which women dream, the things for which women hope and pray and long. These were the things that the women had in their hearts when they gave birth to their sons.

But who can estimate the value of seven million one hundred thousand dead sons of the women of the world? Who can estimate the price which the women have paid for this war; what it has cost them, not only in the death of their sons, because that is a phase of our war to which we look.

The Courage of Women.

We hear our orators tell us of the courage of our men. How they went across the sea. Very few of them remember to tell us of the courage of our women, who also went across the sea; of the women who died nursing the sick and wounded; the women who died in the hospitals, where the terrible bombs came and drove them almost to madness. They tell us nothing of the forty thousand English

Women Suffer Most From War. If there is any body of citizens in the world who ought to be interested in a league to ultimately bring to the world peace it is the mothers of men, and the women who suffered as only women can suffer in the war and in devastated countries. And we call upon them, we women of the world call upon the men who have been fighting all these battles of the years, the men who have led armies, and led armies close to their deaths. We are now calling upon the men of the world to in some way or another find a passage out of the sea of death. We are asking them to form a league which will bring hope to the women of the future. If women are to bear sons only that they may die, if women may not have hope and aspirations for their children, if women may not dream the dreams that have in them the hope of the highest civilizations, the highest moral and spiritual life of the people—if women may not have these in their hearts as the mothers of men, then women will cease to desire to be the mothers of men. And why should they not? Why should they not?

Pig Iron From Iron Sands. Experiments in New Zealand have demonstrated the practicability of producing pig iron from iron sands. The development of the industry has reached the stage where iron is actually produced at the rate of 15 tons per day. Plans are now being made for greatly enlarging the plant.

Daily Thought.

In general, pride is at the bottom of all mistakes.—Ruskin.

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The Target at Fault.

A company of militia had been out all day for target practice, and on their return the captain said to one of the sergeants: "How are your men coming along, sergeant?" "Well, sir," said the sergeant, with an air of great pride, "my men shot very well today, very well, but they would have shot better perhaps if the target had stood a little more to the left!"

When Actresses Were Unknown.

In ancient times actresses were unknown. The people of Elizabethan times were perfectly content to stand for a young male Juliet. Around about 1656, though, Charles II of England began encouraging women to appear on the English stage, and since then actresses have been appearing all over the world with varying degrees of success.

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3rd. Wants two sections of good, hard land in or near Box Butte county. Price must be right.
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5th. Customer wants a sand hill ranch cutting plenty of hay, with wet hay valleys. Will buy from 4,000 to 8,000. Has the money and wants to deal quick.

In sending us descriptions be sure to give legal numbers and a plat of the land if possible. Also give your lowest price and terms. Give full description of improvements, character of land and all other available information.

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