REVIEW OF DOMESTIC (Continued from page 1)

Many products begun in 1916 became active producers in 1917, and many former producers enlarged At the close of 1917 there were 91 potash plants (including 45 producnig potah from wood ashes) in operation, and the production of the year amounted to 32,573 tons of potash (K2O) valued at \$13,989,577. About 45 per cent of the output came from Nebraska brines, 18 per cent from Searles Lake and other bines, per cent from kelp, 9 per cent from molasses distillery waste, 7 cent from alumnite, 5 per cent from cement mills, and the other 5 per cent from blast furnaces, Steffins water, from sugar refineries, wool washings and wood ashes.

During 1918 more than 108 firms produced potash in the United States from ten ditinct sources. At the close of the year several new potash plants were about ready to begin operations, several were under construction, and a number of new companies had been organized. The estimated productive capacity was about 100,000 tons, valued more than \$20,000,000 and represents more than 22 per cent of our normal consumption.

Sources of Domestic Potash. Miscelaneous Organie Sources The production of potash from wool washings, tobacco stems, olive oil residues and other miscellaneous organic sources, though important is small and will probably never amount to more than a few hundred tons annually. This statement does not refer in any way to natural potash manures, which may be used in

Wood Ashes .- At the present time about 45 companies are poducing notash from wood ashes, principally in Wisconsin and, Michi-The product is essentially a mixture of the carbonate and bydro-oxide, containing probably about 60 per cent potash (K2O) production increased from about 412 tons of K20 in 1916 to about 567 tons in 1917, and to about 600 tons in 1918. The production from this source will never be large because of the scarcity and widespread distribution of wood ashes

Steffins Waste Water from Sugar Refinerles .- A recent important development is a by-product recovery of notash ordinarily wasted in the Staffins waters from the beet sugar refineries. Estimates put the amount of notach (K2O) now going to waste in Steffes water at about 8 000 Seven companies produced 1.174 tons of notesh (Ken) from this wester material in 1918 and several other companies installed potash niante. This course is a saving from a large industry strands established and so gives promise of permanency

Molasses Waste.-Molasses residue from distilleries have been util-Ized as a source of a production of in California. Louisiana, Massachusetts, Pennsylvania, and Porto Rico, by far the largest yield from California. The production in 1916 was 1.845 tons of actual potash (including the small amount produced from Steffins waste waters). In 1917 the production from distillery waste alone was 2.846 tons and in 1918 about 3,352 tons Estimates indicate that about 30.000 tons of potash are lost annually from the 25 or more distilleries using molasses. Efforts should be made to bring the production from this source up to capacity, and utilize a waste product from a well established industry.

Kelp .- More than ten companies have erected factories on the Pacific coast for producing potash from kelp, with a combined annual capacity estimated at between 5,000 and 10,000 tons of K2O. The Hercules Powder factory is the largest plant and has been the largest pro-The production from kelp increased from 1,556 tons of K2O in 1916 to 3,572 tons in 1917, and to 4,637 tons in 1918. It has been predicted that the available re sources in raw material would not permit of a large increase in production from this source. Furthermore the cost of production is high and the price of potash is falling. Nearly all the kelp potash producers have closed their plants in anticipation of a price at which they

could not operate.

Alunite.—The only known alunnite deposits in the United States of commercial value are located in the vicinity of Marysville, Utah, Several companies are intersted in

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these properties. The other companies have been active.

quantity of alunite rock available for potash production. Butler and 000 tons. Loughline suggest the lons. deposit may reach a depth of about

sies have reported production. Es- ash from silicate rocks. waste with the gases. This source its from Maine to North Carolina; may eventually supply a substantial part of our demands. Developments should be encouraged.

Cement Kilns,-Several -cement plants have installed the Ctttrell electric precipitation system and some have installed other dust-colecting apparatus in order to obtain notash as a by-product in the manufacture of cement. Much experimental work has been done in connection with the problem. Production has been small but regular for more than three years.

In 1914 : tre were 115 coment. producing plants in the United States, with an annual capacity of about 90.000,000 barrels. Recently W. H. Ross and others of the Bu-

POTASH PRODUCTION Products Corporation produced pot- study of the potash content of the Leucke Hills in Sweetwater county, ash from one of the principal claims operating conditions in nearly all Wyoming, which carry about 10 per ash from one of the principal claims operating conditions in hearty all during most of 1916, 1917 and 1918, the cement plants in the United cent of potash; sericites and slates of Georgia, said to carry about 9 Company has a calcimning plant determining the amount of potash per cent of potash; and the tilings near Marysvale; the American recoverable in the dust from these collected in dumps at certain copper smelting & Refining Company has plants. Their conclusion is that built a plant at Mirray, Utah; and under the present operating condi-Sufficient data are not available tions about 1.66 pounds of potash is high as 10 per cent of potash. Fieldto justify an estimate as to the recoverable in available form for each barrel of cement produced rep- per cent of potash (K2O) but a seresenting a total of about 75,000 ries of analysis (unpublished) by tons of actual potash (K2O) annugroup of claims at 500,000 tons for each 100 feet in depth, and Lough-in increased this estimate to 475.

Silicate Rocks .-- Many processes 1,000 feet. The quantity available have been devised for extracting in other claims is largely a matter potash from silicate rocks and conof conjecture. It appears, certain, siderable experimental work on a however, that there is sufficient at comparatively large scale has been unite in the Marysvale district to done to demonstrate the commercial yield a large tonnage of potash for practicability of some of these processes but so far only a very small Blast Furnace.-Apparently sys- production from this class of raw enentic efforts have not been made materials has been reported. Severo produce potash from blast-fur- al large plants however, are about nace dust, although several compa- ready to begin the extraction of pot-

timates based on inconclusive evi- Among the raw materials to be dence have placed the amount of considered in this connection are notash (K2O) charged annually in- the deposits of greensand (glauconto blast furnaces in the United ite) in New Jersey, Delaware and States at 380,000 tons a large part Maryland which carry about 7 per of which is volatilized and goes to cent of potash; the fieldspar depos-

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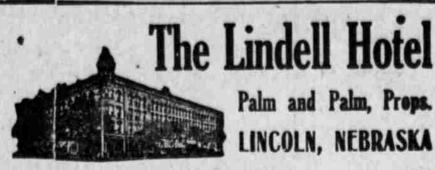
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Mineral reau of Soils have made a careful the potash bearing rocks of the carry probably from 5 to possibly as spar often contains from 10 to 14 the United States Geological Survey

spar and sericite are available but the quantity of these materials is known to be very large. Washington estimated the potash in the greensands of New Jersey at 2,034. 000 metric tons. Schulz and Cross

(Continued from page 6)



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