

MR. TIMMERMAN WRITES ON SUBJECT OF FERTILIZERS

Price of the Commercial Article has been Boosted Since 1914--Some of the Ingredients Used in Manufacture of Munitions--Strength and Quality of Animal Fertilizer Should be Conserved--Some Valuable Information.

(By H. P. Timmerman.)

Montreal, Jan. 30. — While the price of commercial fertilizers has risen very perceptibly since 1914, it is stated that a bushel of corn or potatoes will now buy 25 cents more fertilizer than at that time. This of course, is where it continues to be available, but as cannon and crops use the same food, a shortage of fertilizer may be expected which will in

many cases make it impossible to obtain the same at any price that will return sufficient profit from its use. Six hundred thousand tons of nitrates went to make explosives last year in the United States alone. A million tons of sulphuric acid also was similarly used last year, and the amount will approach a million tons this year.

The tonnage that is to be required by the Allies is tremendous and far in excess of what was anticipated, and this acid will be commandeered by the government from various sulphuric acid manufacturers. Every ton of acid taken from the fertilizer manufacturer means a decrease of two tons of acid phosphate.

Gradually we are coming to realize that in sulphur there is a fourth "essential plant food element," often-

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The Wonderful Fruit Medicine

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"In my opinion, no other medicine is so good as 'Fruit-a-tives' for Indigestion and Constipation."

For years, I suffered with these dreaded diseases, trying all kinds of treatments until I was told I was incurable.

One day a friend told me to try 'Fruit-a-tives'. To my surprise, I found this medicine gave immediate relief, and in a short time I was all right again."

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times as important as the other three, and a recent publication from Cornell University sulphur is grouped as a plant food along with nitrogen, phosphoric acid and potash.

The above facts are cited in several recent issues of the News Bulletin, a publication issued by the soil improvement committee of the National Fertilizer Association, which further states: "It must have taken real heroism to come forward as Director Thorne of the Ohio Experiment Station has done, with the statement that 'the value of manure or other organic matter in the maintenance of soil fertility is limited by the nitrogen and mineral elements contained.' Even Professor Agee, seasoned fertility campaigner that he is says 'it is hard to give up the old beliefs and not continue to see more in the manure than the nitrogen and mineral elements.'"

An Important Matter.

In this situation the importance of conserving the original strength and quantity of animal manure cannot be overestimated and the quality of land plaster in fixing and retaining the liquid and volatile elements thereof is well understood by those who have used the same.

The following is what is said concerning the value agriculturally of gypsum of land plaster by the Dominion chemist, Frank T. Smith, M. A., Sc., in bulletin No. 30 of the Department of Agriculture, Ottawa, December, 1914:

"Gypsum may be valuable agriculturally in furnishing lime for plant growth, as it is fairly soluble in water, but since the lime is combined with sulphuric acid and is present in a neutral condition it follows that gypsum has no value for the treatment of sour or acid soils. For this purpose it cannot take the place of quicklime, slacked lime, marl or ground limestone which, as we know, are essentially alkaline in character."

PUT LIVE STOCK ON RATIONS

London, Jan. 30.—It is estimated that the quantity of fodder stuff in Great Britain is insufficient to maintain the existing stocks of animals and poultry until the present season's crop is available in September. The Secretary of Agriculture announces that plans are being considered for the rationing of all classes of live stock, of which milk-cows and work horses will receive the major portion of the available supply. The quantity of feed to be given to poultry will be sufficient to maintain only one-twentieth of the normal stock.

PERSONAL.

Mr. Elaine Hammond of Oldtown, Me., is in the city.
Mr. E. A. Ryan of Montreal, is at the Queen.
Mr. W. P. Downing of St. John, is in the city.

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Best Liniment Made

Mr. A. E. LUNDY, EDMONTON, writes:—"I fell from a building and received what the doctor called a very bad sprained ankle, and told me I must not walk on it for three weeks. I got MINARD'S LINIMENT and in six days I was out to work again. I think it the best Liniment made."

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"The two chief agricultural functions of land plaster are its property of flocculating clay and its effect on the insoluble potash compounds setting free this element in forms available for plant use. The first of these functions makes it valuable for the dressing of heavy clay loams, which it improves in tilth by rendering them less plastic more open and friable, in a word, mellow and more easily worked. The second role that we have spoken of constitutes it an indirect potash fertilizer, though, of course, it does not add to the sum total of the soil's potash. It is this property that makes land plaster specially beneficial as a top dressing for clover, a crop that particularly responds to potash manuring. The usual application is in the neighborhood of 500 pounds per acre."

Use of Land Plaster.

"Land plaster possesses the property of 'fixing' ammonia and for this reason is largely used in stables and cow barns. Thus employed, sprinkling or dusting the finely ground material in the stalls, it serves to retain the nitrogen of the very readily decomposed urine and incidentally to keep the atmosphere of the building free from ammonia, pure and sweet. It is this use of land plaster that we specially recommend, for by this means the value of the resulting manure is enhanced without any hindrance to the exercise of the other useful functions of this amendment subsequently in the soil."

An application of gypsum is valuable to lands affected by black alkali. The sodium carbonate which such soils contain not only acts directly as

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The moment "Pape's Diapepsin" reaches the stomach all distress goes.

"Really does" put bad stomachs in order — "really does" overcome indigestion, dyspepsia, gas, heartburn and nervousness in five minutes — that — just that — makes Pape's Diapepsin the largest selling stomach regulator in the world. It what you eat ferments into stubborn lumps, you belch gas and eructate sour, undigested food and acid; tongue coated; your insides filled with bile and indigestible waste, remember the moment "Pape's Diapepsin" comes in contact with the stomach all such distress vanishes. It's truly astonishing — almost marvelous, and the joy is its harmlessness.

A large fifty-cent case of Pape's Diapepsin will give you a hundred dollars' worth of satisfaction or your druggist hands you your money back.

It's worth its weight in gold to men and women who can't get their stomachs regulated. It belongs in your home — should always be kept handy in case of sick, sour, upset stomach during the day or at night. It's the quickest, surest and most harmless stomach regulator in the world.

Slants of Humor

ONTO HIMSELF.

I am not rich,
I am not great,
I am not even very good;
Nor very bad;
But I am glad
I'm not "misunderstood."

If any scamp
Or any vamp
"Leads me astray," by jing!
The cause will be
That I — this me,
Myself — supplied the string!

HE WAS ANXIOUS.

Miss Polly Juggles had a mouth that was well developed. She sat by the side of a soldier drinking in the delights of the sea air. As the grandeur of the scene shed its light upon her soul, she said her companion:

"Oh Bill, 'ow grand it all is, ain't it? I feel as though I could open my mouth and take it all in."

A small boy, playing on the beach looked up, a startled gleam in his eye. "But I say," he remarked, "you won't do it, will you? We only came down here yesterday."

a corrosive chemical, cutting into and eating away the plant tissues (especially at the immediate surface of the soil), but it acts most injuriously on the physical condition of the soil, puddling it and making it impervious and causing it on drying to form hard, refractory masses. The application of land plaster converts the carbonate of soda into sulphate of soda, a milder form of alkali as regards vegetable life and one less prejudicial to the physical condition of the soil.

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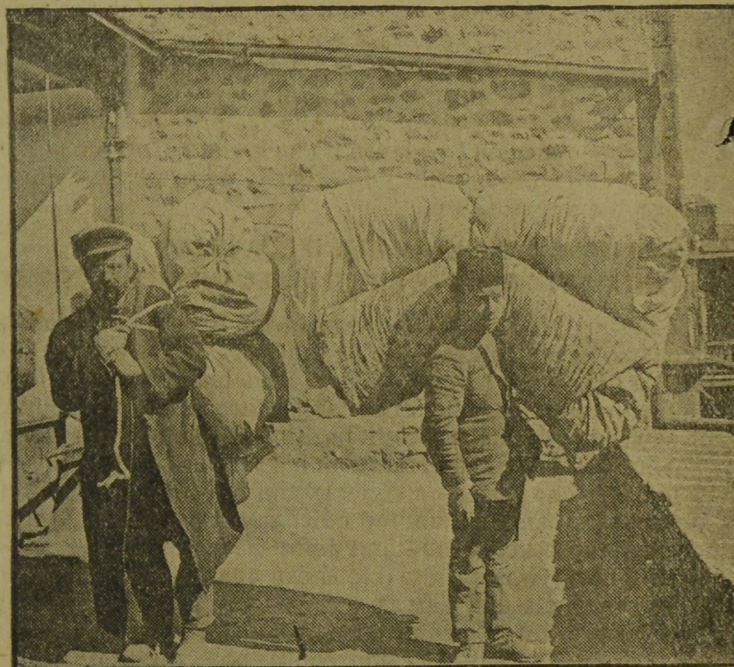
DIVORCED BY MORTAR.

Mike—Pat, kin yez tell me what kapes them bricks together?
Pat—Sure, Mike; it's the mortar
Mike—Not by a blamed sight; it's the mortar that kapes tehnt apart.

Many a self-made man would probably turn out a different kind of a job if given another trial.

Cook's Cotton Root Compound.

A safe, reliable regulating medicine. Sold in three degrees of strength—No. 1, \$1; No. 2, 50¢; No. 3, 25¢ per box. Sold by all druggists, or sent prepaid on receipt of price. Free pamphlet. Address: THE COOK MEDICINE CO., TORONTO, ONT. (Formerly Walker's)



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