

# WHAT FERTILIZERS SHOULD I USE FOR COTTON?

Raleigh, April 6.—Because fertilizers are high in price this spring, and since there is a great demand on the part of most of the farmers of the state to reduce their acreage in cotton one-third, the agricultural extension service is receiving request after request as to what is the best fertilizer to use for cotton. The most economical fertilizer, of course, is the one that will give the yield, or will return the most for the money invested, whether it is used for cotton, or for any other crop.

This year, nitrate of soda is the cheapest source of ammonia or nitrogen, if bought through the county agricultural agents, but on many soils, Mr. C. B. Williams, Chief of the Division of Agronomy, has found that this ingredient cannot be used as the exclusive source of nitrogen. He has calculated a few formulas in which the nitrate of soda is used as much as it is safe to recommend, while cottonseed meal is added as the other source of ammonia or nitrogen.

So far as organic nitrogen is concerned, the cottonseed meal is the cheapest source. It, of course, is made much cheaper where the cottonseed has been swapped in for meal, if the proper exchange and one which is fair to the farmers has been made.

The formulas which Mr. Williams has calculated have been prepared for average sandy and clay soils of the state, and are based on the fact that the land has not received any heavy application of manure, nor had a well growing cover crop plowed into the soil during the past year.

For sandy soils, a fertilizer is recommended which can be made by mixing together 700 pounds of 16 per cent acid phosphate; 1200 pounds of 7 per cent cottonseed meal, and 100 pounds of 18 per cent nitrate of soda. This will make a ton, and should be applied from 500 to 600 pounds per acre at planting, but the cotton should receive a top dressing of nitrate of soda, in addition, about July 1.

For clay soils, one of the simplest fertilizers recommended is made up by mixing together 1200 pounds of 16 per cent acid phosphate and 800 pounds of 7 per cent cotton seed meal. This may also be applied at the rate of about 800 pounds per

acre at planting, with the top dressing of nitrate of soda used on the poorer soils about July 1.

Another simple fertilizer for clay soils may be made by mixing 1600 pounds of 16 per cent acid phosphate and 400 pounds of 18 per cent nitrate of soda. This should be applied at the rate of from 400 to 600 pounds per acre at planting. If it is thought wise, both cottonseed meal and nitrate of soda may be used, substituting one for the other, or the nitrate of soda may be left out entirely at planting, and used later as a top dresser.

Because it is very important that good money returns shall be made from all that is invested in fertilization, the question of fertilizers should be carefully considered this spring, and used only where they will do the most good, and give the best returns.

Mr. Williams will be glad to answer any question on fertilizers, and those citizens of the state who are interested should write to him at West Raleigh, North Carolina, for information about their problems.

## ONLY ONE TREACHEROUS LETTER.

Out of 50,700 suspected letters of the American Expeditionary Forces only one case of treachery was found according to the records of the Base Censor which have just been made by the War Loan Organization.

These 50,700 letters were held up on suspicions of various natures and were then subjected to the most thorough and efficient tests to determine whether or not they carried information of value to the enemy.

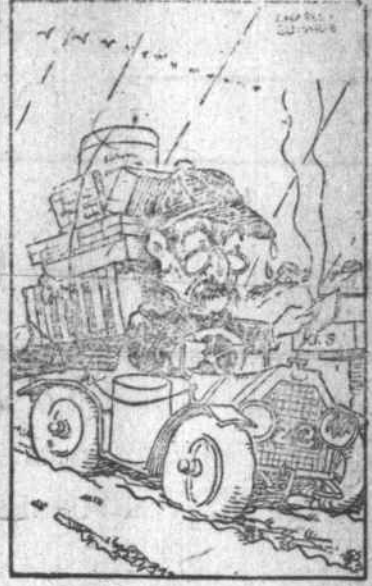
In the examination of letters a secret chemical test infallible in its detection of invisible ink is used. The search for codes constitutes a laborious task and requires men skilled in the work.

Although there were cases in which accidental information was disclosed which might have been of value to the enemy, only one instance of actual treachery on the part of a member of the A. E. F. was discovered. The details of this case are of course secret.

Such universal loyalty might well

serve as an inspiration to all defenders of liberty and spur all men and women on to do their full share toward the completion of the task which these patriotic boys went across the ocean to accomplish. To finish the job the Victory Liberty Loan will be offered next month and the government looks to the people to show again that speed and enthusiasm for which America is known the world over.

To be successful learn to save. Thrift Stamps and War Savings Stamps will help you.



The Rural Mail Carrier is playing Pilgrim's Progress, which stopped just now when the Dastardly Engine up and Quit like a Dawg. The Carrier will Get Out in the Mud and Twist 'Er for the Steenth Time this mornin', and then he will Sing a Pean of Praise for Muddy Roads.

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"LAX-FOS WITH PEPSIN" is a specially-prepared Syrup Tonic-Laxative for Habitual Constipation. It relieves promptly but should be taken regularly for 14 to 21 days to induce regular action. It Stimulates and Regulates. Very Pleasant to Take. 80c per bottle.

## FARM CORN SUPPLY SHORT.

Raleigh, April 6.—The supply of corn on the farms of the nation is short. Estimates made on March 1 show that at that time there were 884,476,000 bushels of corn, as compared with 1,023,465,000 bushels overage for the five year period from 1911 to 1915. This is a shortage of around 139,000,000 bushels on the farms. Because of this, states Director B. W. Kilgore of the Agricultural Experiment Station and Extension Service, there is great need for the planting of more than the usual amount of corn for home consumption in the South, and this corn should be put in the place, to a considerable degree, of the acreage reduction in cotton.

Mr. Kilgore suggests that if plan-

ting early and well cared for, some of this corn will mature in time to aid the food and feed situation of the late summer and early fall. It will aid materially, he thinks, if this shortage is kept in mind, and some corn planted early.

The great decrease in the amount of corn on the farms is due in part to a short crop last year, the gradual increase in livestock, and because a larger amount of corn than usual was fed to livestock during the winter. In addition to this, a large amount will be required from now on as feed for this increased livestock. This means that corn is going to be scarce at least until the new crop comes in, and that the price will in all likelihood be much higher than it is at present, possibly going higher than

during the war period. Dr. Kilgore finds an additional argument in favor of more corn, because of the considerable excess of wheat, rye, and oats, which is on hand at present, over that generally on the farms. Large crops of these have also been planted for this year's harvest. All these facts, therefore, show that the farmers of North Carolina can make no mistake by increasing their own corn acreage and prove that this should by all means be done. In addition to increasing the acreage devoted to corn, some should be planted as early as possible for the purpose of providing early feed.

Money saved is what counts. Money invested in War Savings Stamps grows day and night.

## YANKEES POPULAR IN NORTHERN FRANCE



The American doughboy has earned the esteem and love of the peasants of France. In Brioules-sur-Bar the American chaplain shown in this picture is interested in a pair of wooden shoes while the peasants surround the friendly Yank endeavoring to show their appreciation for his deeds and make him at home.

# THE FARMERS FRIEND

WE FEEL THAT THE VALUE OF THIS STORE AS A SAVING ASSET FOR THE FARMERS HAS ALREADY BEEN REALIZED IN DOLLARS AND CENTS. WE GREATLY APPRECIATE THE SUPPORT THE FARMERS AND CONSUMING PUBLIC HAS GIVEN US AND WILL CONTINUE TO SHOW OUR APPRECIATION BY GIVING THEM THE VERY BEST THEIR MONEY CAN BUY. WE WISH TO CALL YOUR ATTENTION TO OUR WASCO SELF-RISING FLOUR, THE "BEST BY TEST", ALWAYS SOLD ON ITS MERITS. TRY A BARRELL OR BAG ON OUR GUARANTEE, MONEY CHEERFULLY REFUNDED IF NOT PERFECTLY SATISFIED. WE CATER TO THE FARMERS AND ALWAYS HAVE THEIR BEST INTEREST AT HEART. OUR IMMENSE BUYING CAPACITY ENABLES US TO CUT OUT THE JOBBER AND MIDDLEMAN, THUS PLACING GOODS ON THE MARKET AT A GREAT SAVING, WE ARE GIVING THE CONSUMER THE ADVANTAGE OF THIS SAVING AND WE FEEL THAT THEY WILL APPRECIATE THE VALUE OF THIS SERVICE. FOR THE BENEFIT OF THE TOWN TRADE WE BEG TO ANNOUNCE THAT IF THEY WILL BUY THEIR GROCERIES IN A BULK WE WILL DELIVER ANYWHERE IN THE CITY. A SQUARE DEAL WITH EQUAL RIGHTS TO ALL AND SPECIAL PRIVILEGES TO NONE IS OUR MOTTO. SERVICE AND QUALITY IS OUR CREED. WE CORDIALLY INVITE YOU TO OUR STORE, WHERE YOUR BEST INTEREST WILL BE OUR FIRST CONCERN.

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