

COTTON RUST IS POTASH HUNGER

Has Cost the South Millions of Dollars in Lost Yields

Cotton Rust has done widespread damage in recent years, costing the South millions of dollars in lost yields. Many farmers in this section lose many valuable pounds of seed cotton year after year, because they let Rust ravage their cotton crop. Yet cotton rust is easy to prevent by using plenty of potash. Leading authorities say that Cotton Rust is simply "potash starvation."

Cotton, like all other plants, manufactures its food in the leaves. Potash is needed for this manufacturing process and for the transportation and assimilation of the food. When the cotton plant approaches maturity and begins to develop burs, seed and lint, there is a tremendous demand for quickly-available potash.

If the cotton plant does not receive plenty of potash, food manufacturing is hindered or stopped, the food is not properly distributed throughout the plant and a complete breakdown occurs as a result of a starved condition. Then you see Cotton Rust.

The leaves turn yellow, and break down at the edges, become rusty or black and finally drop off. The fruiting limbs are weak, the twigs supporting the burs are short and small, and the burs are small and do not open properly. The cotton is hard to pick and the lint is weak and not uniform with some long and some short fibers. The seeds are small and immature with a low oil content.

All of these losses are due to potash starvation, commonly known as Cotton Rust. Nitrogen and phosphoric acid do not prevent Rust. The average fertilizer does not contain sufficient potash to prevent Rust. There is only one way to prevent Rust—simply use enough potash to balance your plant food and help you get greater benefits from other more expensive elements in your fertilizer.

Many farmers have found that it pays to use potash as a top-dressing. They have gotten excellent results from using 100 pounds of Muriate of Potash, or 200 pounds of Kainit per acre. Other farmers use nitrogen-potash mixed-foods top-dressers. All of these materials are on sale by leading fertilizer men. Potash top-dressing should be applied when you chop out.

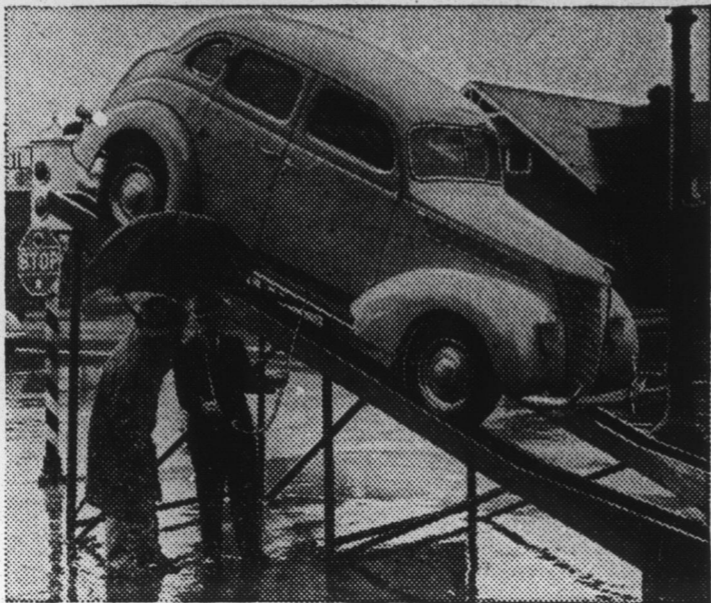
DUKE "DEAN'S LIST" BEARS LOCAL NAME

Thirty-nine Duke University students from North Carolina were last week named to the "dean's list" for the spring term. The list is composed of second, third and fourth year undergraduates who average "B" or higher on all studies.

Students whose names are on the list may attend classes at their own pleasure. Not a great many of these privileged students, however, make a habit of missing classes, for when a "dean's list" student's scholastic average falls below "B" his name is taken off the list permanently.

One of the names on the list for the spring semester is Archer E. Lackey, of this city.

RAIN OR SHINE, FORD BRAKES HOLD



Rain or shine, the new braking system of the 1937 Ford V-8 holds the car permanently on a 45% grade. This photograph, taken during some of the recent unusual weather, shows a dealer explaining one of the important features of the brake assembly, the cable and conduit control which, as engineers point out, affords "the safety of steel from pedal to wheel." Brake demonstration ramps similar to the above are used by Ford dealers to graphically show the effectiveness and dependability of the new braking system as well as the various mechanical features of these self-energizing brakes.

FEDERAL STUDY FERTILIZER MADE

U. S. Department of Agriculture Gets Data On Fillers Used

From News and Observer

The United States Department of Agriculture has recently completed a study of the use of fillers in fertilizer sold in the southeastern states including North Carolina. This data shows that in 1933-34, the 687,042 tons of mixed fertilizers sold on North Carolina contained 145,819 tons of filler. Each ton of fertilizer contained 424 pounds of filler.

The use of large quantities of filler in fertilizers is necessary if fertilizers such as 3-8-3 are sold. Formerly, manufacturers produced superphosphate containing only 14 to 16 per cent phosphoric acid. Technical improvements have resulted in the manufacturer of superphosphate containing 18 to 20 percent phosphoric acid at a lower cost. If the

higher grade phosphate is used in the manufacture of 3-8-3 fertilizer, it is obvious that some filler must be used with it.

A similar situation exists with respect to potash salts. Not many years ago, kainit, containing only 12 per cent potash, was a very common source of potash. Now the lowest grade potash salt on the market contains 20 per cent of potash while that most generally used contains 50 to 60 per cent potash. If they are used in making low analysis fertilizers such as 3-8-3 it is necessary to use a considerable quantity of filler. In like manner, the content of nitrogen in materials used in the manufacture of fertilizers have increased and the use of more filler is essential unless the plantfood content of fertilizers is increased.

The United States Department of Agriculture investigation shows that the use of filler in North Carolina would be reduced by 41,572 tons if no fertilizers were sold that contained less than 16 per cent plant food. If all fillers were omitted, North Carolina fertilizers 19.3 per cent plant food.

Some fillers, such as dolomite, is

desirable in fertilizers. In recent years dolomite has been very extensively used in the production of non-acid forming fertilizers. The data indicate, however that only 186 pounds of dolomite would be required per ton of average North Carolina fertilizer. This is less than one-half the quantity of filler now used.

The United States Department of Agriculture data indicates that North Carolina farmers now pay approximately \$1,750,000 for filler in their fertilizers. Most of this cost is chargeable to freight, bagging and handling costs involved in the shipment of the 145,819 tons of filler. If this unnecessary cost is to be reduced, North Carolina farmers should insist on securing fertilizers containing not less than 16 and preferable 18 to 20 per cent of plantfood.

ROXBORO BOYS AND BETHEL GIRLS WIN TOURNAMENT HONORS

Oliver Best All-Around Player; Benny Best Sport; Ball Winner of Free Throw Contest in Boys Division

Hall, Gravely and Gentry Won Girl Honors

In the finals of the Person Co. Basketball Tournament last Thursday night the Roxboro boys defeated Bethel Hill by a count of 26 to 6 to carry off the first award.

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With Roxboro's team working like a machine and sinking basket after basket Bethel Hill was soon out of the running.

At the close of the game the championship trophy was presented to Captain Bob Whitten of the Roxboro team. Two other Roxboro ball players carrying off awards were Boone Oliver—best all-around player, and Charles Ball, Jr.—free throw contest. Benny of Hurdle Mills won the award for best sportsmanship.

Line-up	Pos.	Total Points
Bethel Hill	RF	1
Young	LF	3
Shotwell	C	0
Pentecost	RG	0
Tingen	LG	2
Fox	Pos.	Total Points
Roxboro	RF	0
Winstead	LF	9
Stewart	C	10
Oliver	RG	5
Whitten	LG	2
Sanders		

Subs. (Bethel Hill) Pixley (Roxboro) Ball, Dixon, James (Bethel Hill) girls defeated the Roxboro girls by a score of 18 to 6 to

win the trophy in the Person County Basketball Tournament. Roxboro held its own in the first quarter but Bethel Hill gradually forged ahead in the succeeding quarters. H. Hall of Bethel Hill won the girls free throw contest, while E. Gravely (Bethel Hill) carried off the award for the best all around ball player. R. Gentry of Allensville won the girls award for the best sportsmanship.

Line up	Pos.	Total Points
Bethel Hill	RF	15
E. Gravely	LF	1
H. Hall	C	2
Evans	CG	0
N. Gravely	RG	0
Humphries	LG	0
L. Hall		
Roxboro	RF	4
Chaney	LF	2
Herring	C	0
Michaels	CG	0
Latta	RG	0
Walthall	LG	0
White		
Subs (Bethel Hill) None		
(Roxboro) Ellmore, D. White, Austin.		

Tax Notice

Everyone who has not paid Personal Property Taxes will be levied on—Pay now and save cost.

Town of Roxboro

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We have a stock of just the fertilizer you need—NACO Brand Peruvian Formulas for all crops. A real dependable Guano.

Year after year NACO Brands have proven their worth in the field—Producing big yields of fine quality crops—Satisfying old customers—Making new friends.

YOU WILL FIND IT DEPENDABLE, TOO!

Come into the Warehouse and select the proper NACO BRAND PERUVIAN FORMULAS for all your crops with the BIG RED BIRD on the back of every bag! You'll be sure of Quick Service, the Right Price and Dependable Guano if you trade with us.

SAMPLE OF TWO OF OUR FORMULAS—G. I. S. and IDEAL TOBACCO GROWERS These formulas are the results of years of study and experiment with the aid of some of the best growers in the Carolinas to produce a full ration for tobacco from the materials best suited to the crop.

For many years they have satisfied the most discriminating growers and produced exceptional yields of the finest quality leaf throughout the Carolinas.

The formulas are as follows:

IDEAL 3-8-5 For Light Lands
200 lbs. Peruvian Guano
200 lbs. Cotton Seed Meal
100 lbs. Dried Blood
120 lbs. Nitrate of Soda
910 lbs. Superphosphate
120 lbs. Sulphate of Potash
150 lbs. Sul. Pot.-Magnesia
200 lbs. Magnesium Lime
2,000 lbs.

Look for the big red bird on every bag

G. I. S. 3-10-6 For Stiff Lands
200 lbs. Peruvian Guano
200 lbs. Cotton Seed Meal
100 lbs. Dried Blood
120 lbs. Nitrate of Soda
1,070 lbs. Superphosphate
120 lbs. Sulphate of Potash
150 lbs. Sulphate of Potash-Magnesia
2,000 lbs.



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Official Experiment Station tests show that the reason crops need "soda" is for the NITROGEN. Therefore the soda to buy is the one that gives you most nitrogen for your money. Arcadian, the nitrate of soda developed by science, gives more nitrogen per ton than any other "soda." That's why, when you order your soda, you should demand Arcadian.

Prominent Tarboro Fertilizer Man says: "I have been using Arcadian Nitrate of Soda exclusively for the past several years. I found the American product more satisfactory. The even weight bags are a convenience; the granular mechanical condition makes it easier to sow, and more economical." C. A. Johnson, Pres. and Treas., F. S. Royster Mercantile Co., Tarboro, N. C.

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