## Rotation Vs. Fertilizers In Land Utilization

The third stage is a period in which the farmer gives much when an arable soil is well sup-thought to cultivation and to drain plied with organic matter, mitro-

In the utilization of arable lands, consumints recognize three stages. In the light of the study that of development. The first stage is a period in which virgin, productive soils are usually subjected to sumed that on naturally productive soils are usually subjected to crop rotation, it may well be assumed that on naturally productive soils are usually subjected to exhaustive cropping and in which little or no thought is given to proper guittivation or to returning any thing to the land with a view to prolonging its productivity. Very often this stage is characterized by the growing of one major crop almost continuously on the same but as to a stobacco during the naturally as to bacco during the naturally as to bacco during the naturally as to be not corn. During this first period the value of manure is hardly appreciated, crop rotation is rarely practiced, and, as one observer has stated it with particular reference to colonial farming, new land is constantly brought into cultivation as soon as that which is already under the plow refuses to produce anything that is worth harvesting. The second stage is a period in which the farmer realizes that, in he is to succeed in growing any crops at all that would give him sufficient encouragement for his labor, he would have to cultivate his land more carefully, modify his cropping system and utilize any farm manure produced for the good of the land, all with a view to preserving, in a manner, the producing qualities of his soils.

to preserving, in a manner, the producing qualities of his solls. This period may be called the extilizers is 7.2 bushels greater than the sum of their seperate increase

It is a well-known fact that, thought to cultivation and to drain age, if necessary, to rotation of crops, and to the use of soil-improvement materials. This is the intensive stage, which ultimately results in a higher yield per acre, but a smaller yield per man. With the average farmer, the sign of his approach to the third stage is the increased attention he gives to these soil-management practices which enable him to produce high yields at the lowest possible cost per acre.

plied with organic matter, mitrogen and the necessary mineral elements, it shows but little or no response to fertilizer treatments. On the other hand, a particular crop may be grown successfully on the same land only when it is introduced into a rotation. This is particularly true in case the crop its attacked by certain insect pests or crop diseases, in which case the change of crops aids in the control of such insects or diseases or prevents their development.

# Timely Farm Questions **Answered At State College**

Camels don't get your Wind

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I'VE GOT TO STAY IN TOP

SMOKE CAMELS.

I'M INTERESTED

PIT, SO I ALSO PREFER CAMELS. THE MILDEST

CIGARETTE I

EVER SMOKED

COSTLIER TOBACCOS

ANSWER: Many poultrymen are getting higher production by feed-ing only a small amount of grain in the morning and the remainder at night. The morning grain is fed in a clean litter from four to six inches deep and consists of about at night. The morning grain is fed in a clean litter from four to six inches deep and consists of about one pound of grain for each 100 hens. The afternoon feeding is put in troughs. The practice of feeding in the day, especially during the winter months, increases the activity of the birds, overcomes idieness, and indirectly increases feed consumption. The combination of these tests of the quality of the selected seed it is advisable to have them tested for germination. Where the indirectly increases feed consump-tion. The combination of these tends to give an increase in egg

QUESTION: Where can I secure plans for building a modern dairy

ANSWER: Plans for building dairy barns that have been appro-ved by the dairy specialists at State College are mailed free up-on request to the Agricultural Edi-tor at State College, However, we on request to the Agricultural Editor at State College. However, we suggest that you get in touch with your county farm agent who will be glad to recommend the proper process other in armation in the straw is left beneath the trees it protects the soli and

QUESTION: How can I increase ing plans always specify the number of animals to be housed and whether a feed libft is desired. Plans for other farm buildings may also be had from the same address.

> QUESTION: When should seed peanuts be selected for planting

> tested for germination. Where the peanuts are still in the field it might also be well to cover the stacks with canvass hay caps to prevent weather damage

### Removing Pine Straw Retards Tree Growth



Increment borings into the tag inof several representative trees indicated that during those 15 years
dicated that during those 15 years
the trees had gained less than an
the trees had gained less than an
the trees had gained less than an
the trees more than

Normally, the same trees, ten inches in diameter and about 70 feet high, should have grown e-nough to increase their diameter by more than two inches. In other words, Page said, raking up the atraw had cut the trees

rowth more than 50 per cent. Sometimes farmers find it nec-Sometimes farmers find it necessary to gather pine needles for mulching their crops and bedding livestick. The needles are as valuable as the cord wood and saw timber on the wooded area.

Apply from 1 1-2 to 2 pounds of 4-8-4 fertilizer to each tree just before growth starts in the spring. Saw Work Animals Need

In such cases, Page said, the straw should not be raked from

more than once in every four or, five years, he said, the damage is

Pecan trees may be set out in the coastal plain and Piedmont section of the State anytime from late November until time for growlate November until time for growlate start in the spring.

College.

Corn, coats, and bariey are about equal in feeding mature animals. Barley, should be crushed or ground before feeding.

th to start in the spring.

But where winters are more severe, the best transplanting time is early in the spring, said Robert Schmidt, associate horticulturist of the N. C. Agricultural Experiment Station.

Pecans thrive on a great variety of soils: heavy clay soil, light sanday land, river bottoms that are well drained, but they will not do well on soil underlain with quick-sand or hardpan, or on land that does not have good drainage.

Schley, Stuart, Success, Pabst, and Aley are good varieties for the coastal plains. Stuart is best for the lower Piedmont, and Indiana and Busserron are good for the upper Piedmont and mountain areas of the State, Schmidt said.

The roots of trees for planting

Barley, should be crushed or ground before feeding.

A great variety of huys are sultable for horse or mule feed. For each grower, the best type to feed is that grown on his own farm. Professor Ruffner stated.

Among the hays and roughages fed with good results are: lespedena, timothy, clover, corn stover, soybean, cowpes, alfalfa, and pesnut.

When timothy and ear corn are fed, it is well to include a quart of wheat bran each day to balance the diet.

Animals at work need 2 to 2 1-2 pounds of feed, dry roughage and concentrates combined, for each 100 pounds of five weight. A 1,000 pound mule should receive 10 lbs. of hay and 10 pounds of grain.

supplies needed plant food, said R. should be well wrapped or plunged into a barrel of water while wait-forester at State College.

On a recent visit to Wayne County, Page found a 75-acre tract of Loblolly pines that had been raked continually during the past 15 years.

Increment borings into the trunks of several representative trees indicated that during those 15 years.

Only good topsell should be used Circos Utinto a barrel of water while wait-into a barrel of water while w

# A Balanced Ration their figures. For the unusually slim woman

the same area year after year.

Con her it at one place this year, he suggested, and from another next year.

If the straw is not raked away more than once in every four or five years, he said, the damage is not so severe.

Suggestoins For

Planting Pecans

Pecan trees may be set out in the coastal plain and Piedmont

Piedmont

Piedmont

For economy and efficiency on North Carolina farms, the horse and mule are hard to beat.

Good work animals supply a highly satisfactory form of pulling power for farm implements and machinery, and they utilize feed crops that can be grown at home.

But to get the best service out of work stock, care must be exercised to feed it properly, said Prof.

R. H. Ruffner, head of the animal husbandry department at State College.

Comparison of the unusually slim woman there must be no dull, drab colors, no black or dark brown. Black has a slenderizing effect. The slim woman may choose the lighter tones, pastel tints, warm though not brilliant hues.

White and the warm colors, red, orange, and intermediates give the effect of nearness and largeness. Shadowy textures seem farther a way or smaller.

The colors worn must be considered in relation to the indivi-

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# Population Changes

To Be Discussed

Recent shifts and changes in the population of North Carolina with be discussed by Dr. C. Hamilton, rural sociologist of the Experiment Station, on the Carolina Farm Features radio program Wednesday.

Dr. Hamilton has made an exhaustive study of the situation and is well-prepared to discuss the topis. He will point out the extent of migration from urban centers to rural areas.

Also included on the week's schedule of talks by State College specialists will be a discussion of a much asked question, "Shall I Go Into the Poultry Business?" This will be delivered by Roy S. Dearstyne, head of the poultry department, on Friday.

The full schedule for the week includes: Monday, R. H. Ruffner, The Feeding of Horses and Mules' Tuesday, Dr. B. B. Fulton, "Insect Control" Wednesday, Dr. C. H. Hamilton, "Recept Population Changes in North Carolina"; Thuraday, Miss Rose Eliwood Bryan, "Club Work in Durham County"; Friday, Roy S. Dearstyne, "Shall I Go Into the Foultry Business?"; and Saturday, Dr. J. V. Hofmann, "Forestry Products."

Tamily Reunion

The house furntaining in the minutes were read.

The house furntaining in the minutes were read.

The house furntaining in the setting demonstration on silpers. This was followed by its ders program, which yus a strain of the setting demonstration on silpers. This was followed by its ders program, which yus a strain of the setting demonstration on silpers. This was followed by its ders program, which yus a strain of the setting demonstration on silpers. This was followed by its destroys f

### **Family Reunion**

A beautiful and enjoyable Birthday Family Reunion was celebrated at Potters Hill, Thursday, November 21st., when 175 of his relatives and friends gathered at the home of Mr. J. K. Thigpen on the 55th Anniversary of his birth, Seven counties were represented, Duplih, Onslow, Lenoir, Pitt, Green, Wayne, New Hanover and possibly Jones. beautiful and enjoyable Birth-

At 10:00 A. M., the great crowd began to gather, every automobile bringing a load of people and bas-kets of good things to eat. At 11 o'clock came the call to religious services, which were conducted on the front porch of the home.

The singing was led by the choir of the Limestone Advent Christian Church and the great crowd joined heartlly in the spirit of song. Then

only good topsoil should be used to fill the holes. Pack it firmly around the roots. Be careful however, not to set the trees more than they grew in the nursery.

The trees should be cultivated as a crop and it is advantageous to grow farm or garden crops between the rows of trees, but pot too close to the trees.

Apply from 1 1-2 to 2 pounds of 4-3-4 fertilizer to each tree just before growth starts in the spring.

Work Animals Need

A Balanced Raffar.

A pasturage, and are not stone, but making, the grain feed my be cut in half.

Gives Hints For

Choosing Colors

Choosing Colors

A great artist once said, "When the Creator fashioned the humming bird and the butterfly He gave them brilliant colors, but when He created the elephant He made it tape."

The same rule may be used by women in selecting colors for their at 2.00 r. M., the crowd gathered for services again. Singing by the same class and this time preaching by Elder Lester Bryant, pastor of the Sand Hills Primitive Baptist Church.

To build up the supply of good milk in Gaston County, members of the Jersey Breeders Association are buying pure bred cows from various sections.

Stout women should at State College.

Stout women should a section of the Jersey Breeders Association at State College.

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Stout women should a section of the Jersey Breeders Association at State College. heartily in the spirit of song. Then came the morning sermon by Elder G. W. Shepard, pastor of Lime-stone church. At 12:00 o'clock a

Lincoln County poultry grows shipped 6,190 pounds of poult for which they received \$1,099 cash at the car door last week complete total shipments wor \$9,285 this season.

Second rental checks amounting in value to \$124,875.58 were recent by distributed to Cleveland Coun-ty cotton growers by the farm a

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