

Booklet Describes Need For Nitrogen In Forage Crops

How important is nitrogen to the efficient production of forage crops? Every North Carolina livestock farmer needs the answer.

A complete explanation is given in the latest publication of the North Carolina Agricultural Experiment Station—"Nitrogen in Forage Production," Bulletin No. 383, by W. W. Woodhouse, Jr. and D. S. Chambles, professors of agronomy at N. C. State College.

The 24-page, illustrated booklet introduces the farmer to some basic facts about forage crops, both legumes and grasses. "Nitrogen, a component of proteins, is a highly important nutrient in all forages," explain the authors. "All high quality forages require rather large amounts of nitrogen from some source."

Legumes "fix" or gather in much of their nitrogen requirements from the atmosphere. Cereals, on the other hand, have no "nitrogen fixing bacteria" and their must depend upon nitrogen being applied artificially. Knowing just how much nitrogen a pasture mixture, for example, may require is of upmost importance on the farm.

The authors explain in detail and easy-to-read language the nitrogen needs of annual grasses and legume-grass mixtures, perennial grasses alone, perennial legume-grass mixtures, pure stands of legumes. Another item

that is carefully explained is the relationship of nitrogen to blast. In citing test results from other states, the authors explain that in Georgia hay yields from a Bermuda grass strain were boosted from one ton per acre (with no nitrogen) to eight tons (with 400 pounds of nitrogen per acre).

Free copies of the booklet are available through local county farm agents or by addressing a request to Department of Agricultural Information, N. C. State College, Raleigh. Just ask for "Nitrogen in Forage Production," Bulletin No. 383.

Amount Of Protein Depends On Kind Of Roughage

What kind and how much protein do my cows need? This question is one that pops up wherever farmmen meet. W. C. Williford, Wake County agent for the State College Extension Service, says it all depends.

It depends both on the quality and amount of roughage you have available. For example, if you have all the heaviest pasture cows will eat, a 10 per cent crude protein grain feed is high enough. This is true, he says, because rapidly growing pasture plants contain large amounts of protein. If your winter roughage is made up of some high quality legume hay and silage, or all excellent hay, and you feed all your cows will eat, then about 12-14 per cent crude protein grain is sufficient.

On the other hand, says Williford, if you are one of the many farmers who doesn't have all the hay, or hay and silage combination your cows will eat (or what you do have is of poor quality), then the protein content of the grain ration will have to be higher. Usually a 16 per cent crude protein feed is enough unless the roughage is "very" poor, or the amount of grain roughage is "very" limited. It is usually better to increase the amount of grain fed than to boost the protein content above 16 per cent. Cows do not usually need dif-



ferent kinds of protein feed in their diets; but when extremely poor quality roughage is fed, it is possible that a variety of proteins in the grain ration may be beneficial.

"The cheapest source of protein is in roughage," says the county agent. "Always plan to have an adequate supply of high quality roughage on hand to feed."

Now Training In Arizona

Williams AFB, Chandler, Ariz.—Aviation Cadet William T. Niven, brother of B. G. Niven of Raeford, is receiving jet pilot training here.

During his training at the Nation's first jet fighter school, he will fly the T-28 dual-seat, conventional-type trainer, and the T-33, only dual-seat jet trainer.

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GO TO CHURCH SUNDAY

PRACTICAL NURSES TO MEET MONDAY

The Seventh Division of Licensed Practical Nurses will meet

at the home of Mrs. Mattie Campbell at 211 E. Edinboro Avenue in Monday, December 14th at 7:30 p. m. The Secretary has announced that a Christmas pro-

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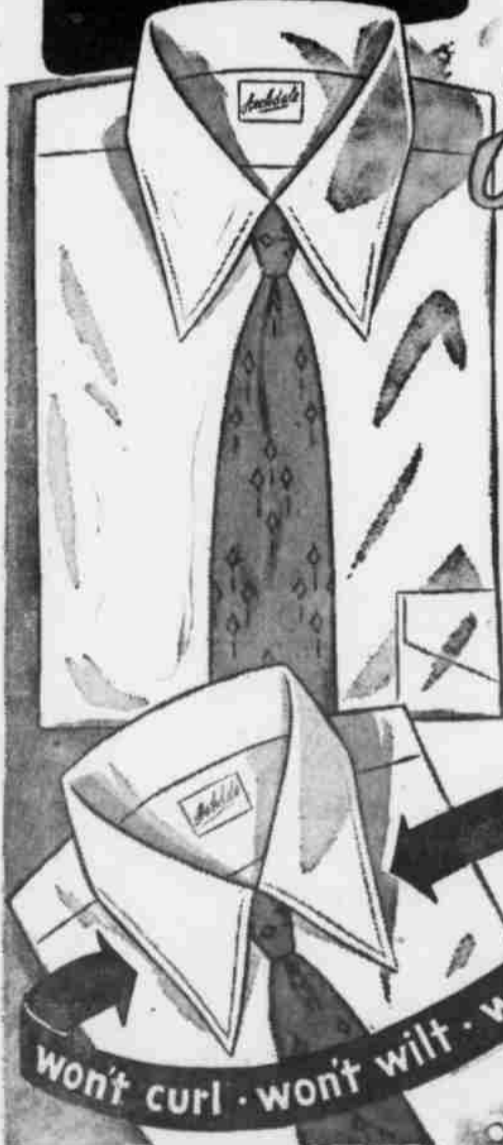
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